

# MARCIN PAPRZYCKI

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## Education:

- 2008 D.Sc. (Habilitation) Bulgarian Academy of Sciences, Sofia, Bulgaria  
Dissertation: *High Performance Algorithms for Matrices with Block Structures*
- 1990 Ph.D., Mathematics Southern Methodist University, Dallas, Texas  
Dissertation: *Parallelization of Boundary Value Problem Solvers*  
Advisor: Professor I. Gladwell
- 1986 MS, Mathematics Adam Mickiewicz University, Poznań, Poland  
Concentration: Numerical Methods and Programming  
Masters Thesis: *Height of a Random Binary Tree*  
Advisor: Professor M. Karoński

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## Fellowships:

- Fulbright Scholarship, Adam Mickiewicz University, Poznań, Poland, September 2003 – June 2004

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## Publications in the Area of Mathematics and Computer Science:

### Edited Volumes:

1. *Proceedings of International Symposium on Intelligent Informatics (ISI 2022)*, with S. M. Thampi, J. Mukhopadhyay, K.-C. Li, Smart Innovation, Systems and Technologies, Vol. 333, Springer, Singapore, 2023, DOI:
2. *Proceedings of 3<sup>rd</sup> International Conference on Artificial Intelligence: Advances and Applications (ICAIAA 2022)*, with G. Mathur, M. Bunde, A. Tripathi, Algorithms for Intelligent Systems, Springer, Singapore, 2023, DOI:
3. *Information, Communication and Computing Technology; 7th International Conference, ICICCT 2022, New Delhi, India, July 16, 2022, Revised Selected Papers*, with C. Badica, L. Kharb, D. Chahal, Communications in Computer and Information Science, Vol. 1670, Springer, Cham, 2022, DOI: 10.1007/978-3-031-20977-2
4. *Proceedings of the Third International Conference on Information Management and Machine Intelligence (ICIMMI 2021)*, with D. Goyal, A. Kumar, V. Piuri, Algorithms for Intelligent Systems, Springer, Singapore, 2022, DOI: 10.1007/978-981-19-2065-3
5. *Smart Sustainable Cities; Theoretical Foundations and Practical Considerations*, with P. K. Singh, M. Essaaidi, S. Rahimi, Studies in Computational Intelligence, Vol. 942, Springer, Cham, 2022, DOI: 10.1007/978-3-031-08815-5
6. *Proceedings of 2<sup>nd</sup> International Conference on Artificial Intelligence: Advances and*

- Applications (ICAIAA 2021)*, with G. Mathur, M. Bundele, M. Lalwani, Algorithms for Intelligent Systems, Springer, Singapore, 2022, DOI: 10.1007/978-981-16-6332-1
7. *Proceedings of the 17<sup>th</sup> Conference on Computer Science and Intelligence Systems*, with M. Ganzha, L. Maciaszek, D. Ślęzak, Annals of Computer Science and Information Systems, Vol. 30, PIPS Press, Warsaw, 2022, DOI: 10.15439/978-83-962423-9-6
  8. *Position Papers of the 17<sup>th</sup> Conference on Computer Science and Intelligence Systems*, with M. Ganzha, L. Maciaszek, D. Ślęzak, Annals of Computer Science and Information Systems, Vol. 31, PIPS Press, Warsaw, 2022, DOI: 10.15439/978-83-965897-2-9
  9. *Communication Papers of the 17<sup>th</sup> Conference on Computer Science and Intelligence Systems*, with M. Ganzha, L. Maciaszek, D. Ślęzak, Annals of Computer Science and Information Systems, Vol. 32, PIPS Press, Warsaw, 2022, DOI: 10.15439/978-83-965897-4-3
  10. *Intelligent Systems, Technologies and Applications*, with S. M. Thampi, S. Mitra, L. Trajkovic, El-S. M. El-Alfy, Advances in Intelligent Systems and Computing, Vol. 1353, Springer, Singapore, 2021, DOI: 10.1007/978-981-16-0730-1
  11. *Futuristic Trends in Networks and Computing Technologies (Part II)*, with P. K. Singh, G. Veselov, A. Pljonkin, Y. Kumar, Y. Zachinyaev, Communications in Computer and Information Science, Vol. 1396, Springer, Singapore, 2021, DOI: 10.1007/978-981-16-1483-5
  12. *Proceedings of the 16<sup>th</sup> Conference on Computer Science and Intelligence Systems*, with M. Ganzha, L. Maciaszek, D. Ślęzak, Annals of Computer Science and Information Systems, Vol. 25, PIPS Press, Warsaw, 2021, DOI: 10.15439/978-83-959183-6-0
  13. *Position and Communication Papers of the 16<sup>th</sup> Conference on Computer Science and Intelligence Systems*, with M. Ganzha, L. Maciaszek, D. Ślęzak, Annals of Computer Science and Information Systems, Vol. 26, PIPS Press, Warsaw, 2021, DOI: 10.15439/978-83-959183-9-1
  14. *Computationally Intelligent Systems and their Applications*, with J. C. Bansal, M. Bianchini, S. Das, Studies in Computational Intelligence, Springer, Singapore, Vol. 950, 2021, ISBN: 978-981-16-0406-5
  15. *Proceedings of the Second International Conference on Information Management and Machine Intelligence (ICIMMI 2020)*, with D. Goyal, A. K. Gupta, V. Piuri, M. Ganzha, Lecture Notes in Networks and Systems, Vol. 166, Springer, Singapore, 2021, DOI: 10.1007/978-981-15-9689-6
  16. *Semantic IoT: Theory and Applications; Interoperability, Provenance and Beyond*, with R. Pandey, N. Srivastava, S. Bhalla, K. Wasielewska, Studies in Computational Intelligence Vol. 941, Springer, Singapore, 2021, DOI 10.1007/978-3-030-64619-6
  17. *Security in Cyber-Physical Systems; Foundations and Applications*, with A. I. Awad, S. Furnell, S. K. Sharma, Studies in Systems, Decision and Control, Vol. 339, Springer, Singapore, 2021, DOI: 10.1007/978-3-030-67361-1
  18. *Proceedings of the 2020 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, Annals of Computer Science and Information Systems, Vol. 21, PIPS Press, Warsaw, 2020, DOI: 10.15439/978-83-955416-7-4
  19. *Position Papers of the 2020 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, Annals of Computer Science and Information

Systems, Vol. 22, PIPS Press, Warsaw, 2020, DOI: 10.15439/978-83-959183-0-8

20. *Communication Papers of the 2020 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, Annals of Computer Science and Information Systems, Vol. 23, PIPS Press, Warsaw, 2020, DOI: 10.15439/978-83-959183-2-2
21. *Big Data, IoT, and Machine Learning; Tools and Applications*, with R. Agrawal, N. Gupta, Taylor&Francis, Boca Raton, 2020, DOI: 10.1201/9780429322990
22. *Futuristic Trends in Networks and Computing Technologies*, with P.K. Singh, S. Sood, Y. Kumar, A. Pljonkin, W.-C. Hong, Communications in Computer and Information Science, Vol. 1206, Springer, Singapore, 2020
23. *Proceedings of the 1<sup>st</sup> International Conference on Data Science, Machine Learning and Applications*, with A. Kumar, V.K. Gunjan, Lecture Notes in Electrical Engineering, Vol. 601, Springer, Singapore, 2020
24. *Handbook of Wireless Sensor Networks: Issues and Challenges in Current Scenario's*, with P.K. Singh, B. K. Bhargava, N.C. Kaushal, W.-C. Hong, Advances in Intelligent Systems and Computing, Vol. 1132, Springer, Cham, 2020
25. *Algorithms for Intelligent Systems, International Conference on Artificial Intelligence: Advances and Applications*, with G. Mathur, H. Sharma, M. Bunde, N. Dey, Algorithms for Intelligent Systems, Springer, Singapore, 2020
26. *Proceedings of the 2019 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, IEEE, Los Alamitos, CA, 2019
27. *Position Papers of the 2019 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, Annals of Computer Science and Information Systems, Vol. 19, PIPS Press, Warsaw, 2019
28. *Communication Papers of the 2019 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, Annals of Computer Science and Information Systems, Vol. 20, PIPS Press, Warsaw, 2019
29. *Futuristic Trends in Network and Communication Technologies*, with P. K. Singh, B. Bhargava, J. K. Chhabra, N. C. Kaushal, Y. Kumar, Communications in Computer and Information Science, Vol. 958, Springer, Singapore, 2019
30. *Proceedings of the 2018 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, IEEE CS Press, Los Alamitos, CA, 2018
31. *Position Papers of the 2018 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, Annals of Computer Science and Information Systems, Vol. 16, PIPS Press, Warsaw, 2018
32. *Communication Papers of the 2018 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, Annals of Computer Science and Information Systems, Vol. 17, PIPS Press, Warsaw, 2018
33. *Proceedings of the 2017 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, IEEE CS Press, Los Alamitos, CA, 2017
34. *Position Papers of the 2017 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, Annals of Computer Science and Information Systems, Vol. 12, PIPS Press, Warsaw, 2017

35. *Communication Papers of the 2017 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, Annals of Computer Science and Information Systems, Vol. 13, PIPS Press, Warsaw, 2017
36. *Proceedings of the 2016 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, IEEE CS Press, Los Alamitos, CA, 2016
37. *Position Papers of the 2016 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, Annals of Computer Science and Information Systems, Vol. 8, PIPS Press, Warsaw, 2016
38. *Proceedings of the 2015 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, IEEE CS Press, Los Alamitos, CA, 2015
39. *Position Papers of the 2015 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, Annals of Computer Science and Information Systems, Vol. 6, PIPS Press, Warsaw, 2015
40. *Proceedings of the 2014 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, IEEE CS Press, Los Alamitos, CA, 2014
41. *Position Papers of the 2014 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, Annals of Computer Science and Information Systems, Vol. 3, PIPS Press, Warsaw, 2014
42. *Proceedings of the 2013 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, IEEE CS Press, Los Alamitos, CA, 2013
43. *Position Papers of the 2013 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, Annals of Computer Science and Information Systems, Vol. 1, PIPS Press, Warsaw, 2013
44. *Multiagent System Technologies*, with M. Klusch, M. Thimm, LNCS, Springer, Berlin, 2013
45. *Proceedings of the 2012 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, IEEE CS Press, Los Alamitos, CA, 2012
46. *Software Agents, Agent Systems and their Applications*, with M. Ganzha, M. Essaïdi, Volume 32 of NATO Science for Peace and Security Series – D: Information and Communication Security, IOS Press, Amsterdam, The Netherlands, 2012
47. *Proceedings of the 2011 Federated Conference on Computer Science and Information Systems*, with M. Ganzha, L. Maciaszek, IEEE CS Press, Los Alamitos, CA, 2011
48. *Proceedings of the 2010 International Multiconference on Computer Science and Information Technology*, with M. Ganzha, IEEE CS Press, Los Alamitos, CA, 2010
49. *Proceedings of the 2009 International Multiconference on Computer Science and Information Technology*, with M. Ganzha, IEEE CS Press, Los Alamitos, CA, 2009
50. *Proceedings of the 2008 International Multiconference on Computer Science and Information Technology*, with M. Ganzha, T. Pelech-Pilichowski, IEEE CS Press, Los Alamitos, CA, 2008
51. *Development of Multi-Agent Systems in Socio-Economic Environments* (in Polish), with S. Stanek, H. Sroka, M. Ganzha, Placet, Warsaw, Poland, 2008
52. *Cluster 2007*, with K. Milfeld, IEEE Press, Los Alamitos, CA, 2007
53. *Advances in Intelligent and Distributed Computing*, with C. Badica, Springer, Berlin, Germany, 2007

54. *Proceedings of the 2007 International Multiconference on Computer Science and Information Technology*, with: M. Ganzha, T. Pelech, PTI Press, Katowice, Poland, 2007
55. *Management of E-Commerce and E-Government*, with: Z. Yuansheng, C. Deren, L. Yong, Nova Science Publishers, New York, NY, 2007
56. *Proceedings of the Fifth International Symposium on Parallel and Distributed Computing*, with: D. Petcu, B. Foliot, D. Grigoras, J. Morrison, J. Scherson, B. Trousel, M. Tudruj, IEEE CS Press, Los Alamitos, CA, 2006
57. *Proceedings of the 2006 International Multiconference on Computer Science and Information Technology*, with: M. Ganzha, T. Pelech, J. Wachowicz, K. Węcel, PTI Press, Katowice, Poland, 2006
58. *Proceedings of the 7<sup>th</sup> International Symposium on Symbolic and Numeric Algorithms for Scientific Computing*, with D. Zaharie, D. Petcu, V. Negru, T. Jebelean, G. Ciobanu, A. Cicortas, A. Abraham, IEEE Press, Los Alamitos, CA, 2005
59. *Proceedings of the International Conference on Next Generation Web Services Practices*, with A. Abraham, S. Y. Han, D. Du, IEEE Press, Los Alamitos, CA, 2005
60. *Proceedings of the 5<sup>th</sup> International Conference on Intelligent Systems Design and Applications*, with: H. Kwaśnicka, IEEE Press, Los Alamitos, CA, 2005
61. *Proceedings of the Fourth International Conference on Hybrid Intelligent Systems*, with: M. Ishikawa, S. Hashimoto, E. Barakova, K. Yoshida, M. Köppen, D. Corne, A. Abraham, IEEE Press, Los Alamitos, CA, 2005
62. *Proceedings of the 5<sup>th</sup> Parallel Processing and Applied Mathematics Conference*, with R. Wyrzykowski, J. Waśniewski and J. Dongarra, Springer Verlag, Berlin, Germany, 2004
63. *Proceedings of the Second International Symposium on Parallel and Distributed Computing*, IEEE Press, Los Alamitos, CA, 2003
64. *Electronic Commerce; Research and Development*, ACTEN Press, Wejherowo, Poland, 2003
65. *Proceedings of the Second Southern Conference on Computing*, with T. Beaubouef and M. Cobb, Department of Computer Science, University of Southern Mississippi, Hattiesburg, CD, December, 2002
66. *Proceedings of the 4<sup>th</sup> Parallel Processing and Applied Mathematics Conference*, with R. Wyrzykowski, J. Waśniewski and J. Dongarra, Springer Verlag, Berlin, Germany, 2002
67. *Practical Parallel Computing*, with L. Tarricone and T. Yang, Nova Scientific Publishers, Huntington, NY, 2001
68. *Proceedings of the 2001 IEEE International Conference on Cluster Computing*, with D. S. Katz, T. Sterling, M. Baker, L. Bergman and R. Buyya, IEEE Press, Los Alamitos, CA, 2001
69. *Proceedings of the First Southern Symposium on Computing*, with J. Kolibal, School of Mathematical Sciences, University of Southern Mississippi, Hattiesburg, CD, April, 2000
70. *High Performance Solution to Structured Linear Systems*, with P. Arbenz, A. Sameh and V. Sarin, Nova Scientific Publishers, Commack, NY, (Volume 2 of the Series: *Advances in the Theory of Computation and Computational Mathematics*), 1998
71. *Mind Versus Computer. Were Dreyfus and Winograd Right?*, with M. Gams and X. Wu, IOS Press, Amsterdam, (Volume 43 of the series: *Frontiers in Artificial Intelligence and Applications*), 1997

**Edited Journal Issues:**

1. *Interoperability in the Internet of Things*, with G. Fortino, M. Ganzha, C. Palau, IEEE

Computing Now, November, 2016

2. *Agent-Oriented Computing for Distributed Systems and Networks*, with M. Ganzha, *Journal of Network and Computer Applications*, Vol. 37, January, 2014
3. *Software Agents – Twenty Years & Counting*, with M. Ganzha, A. Omicini, *IEEE Computing Now*, November, 2013
4. *Advances in Agent-based Computing*, with M. Ganzha, *International Journal of Intelligent Information and Database Systems*, Vol. 3, No. 4, 2009
5. *Intelligent Systems*, with C Badica and M. Ganzha, *Informatica*, Vol. 32, No. 4, 2008
6. *Distributed Intelligent Systems*, with M. Ganzha, *Scalable Computing; Practice and Experiences*, Vol. 9, No. 1, 2008
7. *Internet Technologies and Services*, with M. Essaaidi, *International Journal of Computer Science and Applications*, Vol. 3, No 2, 2006
8. *Proceedings of the Scientific Session organized during XXI Fall Meeting of the Polish Information Processing Society*, with: M. Ganzha, J. Wachowicz, K. Węcel, *Annales UMCS Sectio AI Informatica*, vol. IV, 2006
9. *Internet-Based Computing*, with: D. Grigoras, J. P. Morrison, *Scalable Computing: Practice and Experience*, Vol. 6, No. 1, 2005
10. *Agent Based Computing*, with: G. Ciobanu, S. Rahimi, *Informatica*, Vol. 28, No. 1, 2004
11. *Data Management, I/O Techniques, and Storage Systems for Large-Scale Data Intensive Applications*, with L. T. Yang, X. Shen, X. Wu, *IEEE Distributed Systems*, Vol. 5, 2004
12. *Information Society*, with: M. Gams, *Informatica*, Vol. 27, No. 4, 2003
13. *Practical Parallel Computing*, with L. Tarricone and L. T. Yang, *International Journal of Computer Research*, Vol. 10, No. 4, 2001
14. *Past, Present and Future of Neural Networks*, with P. G. Anderson, G. Antoniou, V. Mladenov, E. Oja and N. Steele, *International Journal of Computer Research*, Vol. 10, No. 2, 2001
15. *Neural Networks and their Applications*, with P. G. Anderson, G. Antoniou, G. Klein, V. Mladenov, E. Oja and N. Steele, *Informatica*, Vol. 25, No. 1, 2001
16. *Parallel Computing on Networks of Computers*, with R. Buyya, *Informatica*, Vol. 23, No. 1, 1999
17. *Internet-based Tools in Support of Business Information Systems*, with W. Abramowicz, *Informatica*, Vol. 22, No. 1, 1998
18. *Mind <> Computer. Were Dreyfus and Winograd Right?*, with M. Gams and X. Wu, *Informatica*, Vol. 19, No. 4, 1995
19. *Parallel and Distributed Real-Time Systems*, with J. Zalewski, *Informatica*, Vol. 19, No. 1, 1995

### **Book Chapters:**

1. “INTER-Meth: A Methodological Approach for the Integration of Heterogeneous IoT Systems,” with: G. Fortino, R. Gravina, W. Russo. C. Savaglio, K. Wasielewska, M. Ganzha, W. Pawłowski, P. Szmaja, R. Tkaczyk, in: C.E. Palau, et.al (eds.), *Interoperability of Heterogeneous IoT Platforms*, Springer, Cham, 2021, 195-230, DOI: 10.1007/978-3-030-82446-4\_7
2. “Semantic Interoperability,” with: M. Ganzha, W. Pawłowski, B. Solarz-Niesłuchowski, P. Szmaja, K. Wasielewska, in: C. E. Palau, et.al (eds.), *Interoperability of Heterogeneous IoT Platforms*, Springer, Cham, 2021, 133-165, DOI: 10.1007/978-3-030-82446-4\_5

3. "Software Agents in Support of Scheduling Group Training", with: G. Mamatsashvili, K. Gancarz, W. Łajewska, M. Ganzha, in: P. M., Sharma, et.al (eds.), Next Generation Computing Technologies on Computational Intelligence, Communications in Computer and Information Science, Vol. 922, Springer, Singapore, 2019, 364-375, DOI: 10.1007/978-981-15-1718-1\_31
4. "Intelligent Trash Bin Management System – Initial Design and Implementation", with: P. Filarski, P. Niedziela, M. Ganzha, in: P. Singh et.al. (eds.), Proceedings of ICETIT, Lecture Notes in Electrical Engineering, vol. 605, Springer, Cham, 2019, 165-179, DOI: 10.1007/978-3-030-30577-2\_14
5. "Semantic-Based System for Exercise Programming and Dietary Advice", with: G.G. Mamatsashvili, K. Ponichtera, M. Małkiński, M. Ganzha, in: L. Jain et.al. (eds.), Advances in Bioinformatics, Multimedia, and Electronics Circuits and Signals, Advances in Intelligent Systems and Computing, vol 1064. Springer, Singapore, 2020, 105-120, DOI: 10.1007/978-981-15-0339-9\_10
6. "Offline Handwritten Gurmukhi Character Recognition System Using Deep Learning", with: U. Jindal, S. Gupta, V. Jain, in: L. Jain et.al. (eds.), Advances in Bioinformatics, Multimedia, and Electronics Circuits and Signals, Advances in Intelligent Systems and Computing, vol 1064. Springer, Singapore, 2020, 121-133, DOI: 10.1007/978-981-15-0339-9\_11
7. "InterCriteria Analysis of Different Hybrid Ant Colony Optimization Algorithms for Workforce Planning", with: S. Fidanova, O. Roeva, G. Luque, in: S. Fidanova (ed.), Recent Advances in Computational Optimization, Studies in Computational Intelligence, vol. 838, Springer, Berlin, 2020, 61-81, 10.1007/978-3-030-22723-4\_5
8. "InterCriteria Analysis of ACO Performance for Workforce Planning Problem," with: S. Fidanova, O. Roeva, G. Luque, in: S. Fidanova (ed.), Recent Advances in Computational Optimization, Studies in Computational Intelligence, vol. 795, Springer, Berlin, 2018, 47-67, DOI: 10.1007/978-3-319-99648-6\_4
9. "Dimensions of semantic similarity", with P. Szmeja, M. Ganzha, W. Pawlowski, in: Gaweda A. et.al. (eds.), Advances in Data Analysis with Computational Intelligence Methods, Studies in Computational Intelligence, vol. 738, Springer, Berlin, 2017, 87-125, DOI: 10.1007/978-3-319-67946-4\_3
10. "Comparison of Different ACO Start Strategies Based on InterCriteria Analysis," with S. Fidanova, O. Roeva, in: S. Fidanova (ed.), Recent Advances in Computational Optimization, Studies in Computational Intelligence, vol. 717, Springer, Berlin, 2017, 53-72, DOI: 10.1007/978-3-319-59861-1\_4
11. "Towards Multi-layer Interoperability of Heterogeneous IoT Platforms: The INTER-IoT Approach," with G. Fortino, C. Savaglio, C. E. Palau, J. S. de Puga, M. Ganzha, M. Montesinos, A. Liotta, M. Llop, in: R. Gravina et.al. (eds.), Integration, Interconnection, and Interoperability of IoT Systems, Internet of Things (Technology, Communications and Computing), Springer, Berlin, 2017, 199-232
12. "InterCriteria Analysis of Genetic Algorithms Performance," with O. Roeva, P. Vassilev, S. Fidanova, Recent Advances in Computational Optimization, Studies in Computational Intelligence, Vol. 655, Springer, 2016, 235-260
13. "Practical Application of OFN Arithmetics in a Crisis Control Center Monitoring," with J. Czerniak, W. Dobrosielski, L. Apiecionek, D. Ewald, in: S. Fidanova (ed.), Recent Advances in Computational Optimization, Studies in Computational Intelligence, Vol. 610, Springer, 2016, 51-64

14. "InterCriteria Analysis of ACO and GA Hybrid Algorithms," with S. Fidanova, O. Roeva, in: S. Fidanova (ed.), *Recent Advances in Computational Optimization, Studies in Computational Intelligence*, Vol. 610, Springer, 2016, 107-126
15. "Population Size Influence on the Genetic and Ant Algorithms Performance in Case of Cultivation Process Modeling," with S. Fidanova, O. Roeva, in: S. Fidanova (ed.), *Recent Advances in Computational Optimization, Studies in Computational Intelligence*, Vol. 580, Springer, 2015, 106-120
16. "Using Ontologies to Manage Resources in Grid Computing: Practical Aspects," with M. Drozdowicz, M. Ganzha, K. Wasielewska, P. Szmeja, in S. Ossowski (ed.), *Agreement Technologies, Law, Governance and Technology Series*, Springer, Berlin, 2013, 149-168
17. "Evaluation of Structured Collaborative Tagging for Web Service Matchmaking," with M. Gawinecki, G. Cabri, M. Ganzha, in: B. Blake et.al. (eds.), *Semantic Web Services; Advancement through Evaluation*, Springer, Berlin, 2012, 173-189
18. "Implementing GliderAgent – an agent-based decision support system for glider pilots," with J. Domański, R. Dziadkiewicz, M. Ganzha, A. Gab, M. Mesjasz, in M. Ganzha, et.al. (eds.), *Volume 32 of NATO Science for Peace and Security Series – D: Information and Communication Security*, IOS Press, Amsterdam, The Netherlands, 2012, 222-244
19. "Structured Collaborative Tagging: Is It Practical for Web Service Discovery?," with M. Gawinecki, G. Cabri, M. Ganzha, in: J. Filipe, J. Cordeiro (eds.), *Web Information Systems and Technologies - 6th International Conference, Revised Selected Papers, Lecture Notes in Business Information Processing*, Springer, Berlin, 2011, 69-84
20. "Ontology for Contract Negotiations in an Agent-based Grid Resource Management System," with M. Drozdowicz, K. Wasielewska, M. Ganzha, N. Attaoui, I. Lirkov, R. Olejnik, D. Petcu, C. Badica, in: P. Ivanyi, B.H.V. Topping (eds.), *Trends In Parallel, Distributed, Grid and Cloud Computing for Engineering*, Saxe-Coburg Publications, Stirlingshire, UK, 2011, 335-354
21. "Negotiations in an Agent-based Grid Resource Brokering System," with K. Wasielewska, M. Ganzha, M. Drozdowicz, D. Petcu, C. Badica, N. Attaoui, I. Lirkov, R. Olejnik, in: P. Ivanyi, B.H.V. Topping (eds.), *Trends In Parallel, Distributed, Grid and Cloud Computing for Engineering*, Saxe-Coburg Publications, Stirlingshire, UK, 2011, 355-374
22. "Trade-off between Complexity of Structured Tagging and Effectiveness of Web Service Retrieval," with M. Gawinecki, G. Cabri, M. Ganzha, in: F. Daniel, F. M. Facca (eds.), *Current Trends in Web Engineering - 10th International Conference on Web Engineering, ICWE 2010 Workshops, Revised Selected Papers, LNCS*, Springer, Berlin, 2010, 289-300
23. "Resource Management in Grids: Overview and a discussion of a possible approach for an Agent-Based Middleware," with M. Senobari, M. Drozdowicz, M. Ganzha, R. Olejnik, I. Lirkov, P. Telegin, N. M. Charkari, in: B.H.V. Topping, P. Ivanyi (eds.), *Parallel, Distributed and Grid Computing for Engineering*, Saxe-Coburg Publications, Stirlingshire, UK, 2009, 141-164
24. "Ontologies Agents and the Grid: an Overview," with M. Drozdowicz, M. Ganzha, R. Olejnik, I. Lirkov, P. Telegin, M. Senobari, in: B.H.V. Topping, P. Ivanyi (eds.), *Parallel, Distributed and Grid Computing for Engineering*, Saxe-Coburg Publications, Stirlingshire, UK, 2009, 117-140
25. "Adaptability in an Agent Based Virtual Organization – Towards Implementation," with G. Frackowiak, M. Ganzha, M. Szymczak, Y.-S. Han, M.-W. Park, in: J. Cordeiro et.al. (eds.), *Web Information Systems and Technologies*, Springer, Berlin, 2009, 27-39

26. "Considering Resource Management in Agent-Based Virtual Organization," with G. Frąckowiak, M. Ganzha, M. Gawinecki, M. Szymczak, M.-W. Park, Y.-S. Han, in: N. Nguyen, L. C. Jain (Eds.), *Intelligent Agents in the Evolution of Web and Applications*, Springer, Berlin, 2009, 161-190
27. "Developing and Utilizing Ontology of Golf Based on the Open Travel Alliance Golf Messages," with A. Cieřlik, M. Ganzha, in: J. Cordeiro et.al. (eds.), *Web Information Systems and Technologies*, Springer, Berlin, 2009, 133-156
28. "Software Agents in ADAJ: Load Balancing in a Distributed Environment," with M. Drozdowicz, M. Ganzha, W. Kuranowski, I. Alshabani, R. Olejnik, M. Taifour, M. Senobari, I. Lirkov, in: M. Todorov (ed.), *Applications of Mathematics in Engineering and Economics*, American Institute of Physics, College Park, MD, 2008, 527-540
29. "Potential Problems in Development and Implementation of Agent Systems on the Basis of the Travel Support System" (in Polish), with M. Gawinecki, M. Ganzha, in: S. Stanek et. al. (eds.), *Development of Multi-Agent Systems in Socio-Economic Environments*, Placet, Warsaw, Poland, 2008, 303-320
30. "Model Agent-based E-commerce System" (in Polish), with M. Ganzha, M. Gawinecki, P. Kobzdej, in: S. Stanek et. al. (eds.), *Development of Multi-Agent Systems in Socio-Economic Environments*, Placet, Warsaw, Poland, 2008, 349-368
31. "Software Agents as Resource Brokers in the Grid" (in Polish), with W. Kuranowski, M. Ganzha, M. Dominiak, in: S. Stanek et. al. (eds.), *Development of Multi-Agent Systems in Socio-Economic Environments*, Placet, Warsaw, Poland, 2008, 369-391
32. "Trust Management in an Agent-based Grid Resource Brokering System - Preliminary Considerations," with M. Ganzha, I. Lirkov, in: M. Todorov (ed.), *Applications of Mathematics in Engineering and Economics'33*, American Institute of Physics, College Park, MD, 2007, 35-46
33. "Cluster Computing Facilities in a Service-Oriented Architecture," with D. Petcu, M. Ganzha, in: W. Shajdurov (ed.), *Distributed and Cluster Computing*, Technical University of Krasnojarsk Press, Krasnojarsk, Russia, 2007, 107-122
34. "A Mobile Location-based Framework for Secure E-Commerce and E-Government," with J. Thomas, Z. M. Shen, M. Crossland, in: Z. Yuansheng et. al. (eds.), *Management of E-Commerce and E-Government*, Nova Science Publishers, New York, NY, 2007, 51-66
35. "Mobile Agent Security," with Łukasz Nitschke, Michał Ren, in: J. Thomas, M. Essaidi (eds.), *Information Assurance and Computer Security*, IOS Press, Amsterdam, 2006, 102-123
36. "Utilizing Semantic Web and Software Agents in a Travel Support System," with M. Ganzha, M. Gawinecki, R. Gasiorowski, S. Pisarek, W. Hyska, in: A. F. Salam, J. Stevens (eds.), *Semantic Web Technologies and eBusiness: Virtual Organization and Business Process Automation*, Idea Publishing Group, Hershey, USA, 2006, 325-359
37. "Developing a Model Agent-based E-commerce System," with C. Bădică, M. Ganzha, in: Jie Lu et. al. (eds.), *E-Service Intelligence – Methodologies, Technologies and Applications*, Spriner, Berlin, 2007, 555-578
38. "Symbolic Computations on Grids," with D. Petcu, D. Tepeneu, T. Ida, in B. Di Martino et. al. (eds.), *Engineering the Grid; Status and Perspective*, America Scientific Publishers, Los Angeles, CA, 2006, 91-107
39. "Digital signature security: the present and the future," with T. Pełech, in: D. J. Bem, et.al. (eds.), *Internet 2005*, Oficyna Wydawnicza Politechniki Wrocławskiej, 2005, 159–172

40. "RDF Demarcated Resources in an Agent Based Travel Support System," with M. Gawinecki, M. Gordon, N. Nguyen, M. Szymczak, in: M. Goliński et. al. (eds.), *Informatics and Effectiveness of Systems*, PTI Press, Katowice, 2005, 303- 310
41. "Socrates Agents – in Support of Student Mobility," with M. Ganzha, W. Kuranowski, in: M. Goliński et. al. (eds.), *Informatics and Effectiveness of Systems*, PTI Press, Katowice, 2005, 295-302
42. "Interaction User – Agent-based Travel Support System," (in Polish) with P. Kaczmarek, M. Gawinecki, Z. Vetulani, in: J. Kisielnicki et. al. (eds.) *Informatics and Modern Management*, PTI Press, Katowice, 2005, 189-198
43. "Internet-based Travel Support System – Creating Subsystem Responsible for Content Gathering," (in Polish) with S. Pisarek, in: J. Kisielnicki et. al. (eds.) *Informatics and Modern Management*, PTI Press, Katowice, 2005, 177-188
44. "A Brief Introduction to Parallel Computing," with P. Stpiczyński, in: E. J. Kontoghiorghes (ed.) *Handbook of Parallel Computing and Statistics*, Taylor and Francis, Boca Raton, FL, 2006, 3-42
45. "Ontologically Demarcated Resources in an Agent Based Travel Support System," with: M. Gawinecki, M. Gordon, N. T. Nguyen, Z. Vetulani, in: R. K. Katarzyniak (ed.) *Ontologies and Soft Methods in Knowledge Management*, Advanced Knowledge International, Adelaide, Australia, 2005, 219-240
46. "Ontologies in a Travel Support System," with M. Gordon, A. Kowalski, T. Pelech, M. Szymczak, T. Wąsowicz, in: D. J. Bem et. al. (eds.) *Internet 2005*, Technical University of Wrocław Press, 2005, 285-300
47. "Digital Signature Security. The Present and the Future," with T. Pelech, in: D. J. Bem et. al. (eds.) *Internet 2005*, Technical University of Wrocław Press, 2005, 159-172
48. "Fuzzy Spatial Relationships and Mobile Agent Technology in Geospatial Information Systems," with F. Petry, M. Cobb, D. Ali, R. Angryk, S. Rahimi, L. Wen, H. Yang, in: L. Sztandera and P. Matsakis (eds.), *Soft Computing in Defining Spatial Relations*, volume in series: Soft Computing, Physica-Verlag, Heidelberg, 2002, 123-156

#### **Refereed Journal Articles:**

1. "Exploring Usability of Reddit in Data Science and Knowledge Processing ," with J. Sawicki, M. Ganzha, A. Badica, *Scalable Computing: Practice and Experience*, Vol. 23 No. 1, 2022, 9–21, DOI: 10.12694/scpe.v23i1.1957
2. "DevSecOps Methodology for NG-IoT Ecosystem Development Lifecycle; ASSIST-IoT Perspective," with: O. Lopez, J. Blasi, M. Uriarte, I. Lacalle, G. Galiana, C. E. Palau, E. Garro, M. Ganzha, P. Lewandowski, K. Wasielewska, K. Votis, G. Stavropoulos, I. Papoutsoglou, *Journal of Computer Science and Cybernetics*, vol. 37, no. 3, 2021, 321-337, DOI: 10.15625/1813-9663/37/3/16245
3. "Performance analysis of parallel high-resolution image restoration algorithms on Intel supercomputer," with I. Lirkov, S. Harizanov, M. Ganzha, *Concurrency and Computation: Practice and Experience*, 2020, DOI: 10.1002/cpe.5996
4. "Optimal Semi-Competitive Intermediation Networks," with A. Bădică, C. Bădică, M. Ganzha, M. Ivanović, *Cybernetics and Information Technologies*, vol. 20, no. 5, 81-94, 2020, DOI: 10.2478/cait-2020-0042
5. "Integrating IoT platforms using the INTER-IoT approach: A case study of the CasAware project," with G. Modoni, E. Caldarola, N. Mincuzzi, M. Sacco, K. Wasielewska, P. Szmaja, M. Ganzha, M. Paprzycki, W. Pawłowski, *Journal of Ambient Intelligence and Smart Environments*, vol. 12, no. 6, 457-474, 2020, DOI: 10.3233/AIS-200578

6. "Semantic Access Control for Privacy Management of Personal Sensing in Smart Cities," with M. Drozdowicz, M. Ganzha, *IEEE Transactions on Emerging Topics in Computing*, IEEE, Los Alamitos, 2020, DOI: 10.1109/TETC.2020.2996974
7. "Modeling cyber-physical systems – a GliderAgent 3.0 perspective", with M. Mesjasz, M. Ganzha, *Journal of Intelligent Information Systems*, 2020, DOI: 10.1007/s10844-019-00588-3
8. "Agent-based Internet of Things: State-of-the-art and research challenges," with C. Savaglio, M. Ganzha, C. Bădică, M. Ivanović, G. Fortino, *Future Generation Computer Systems*, Vol. 102, 2020, 1038-1053, DOI: 10.1016/j.future.2019.09.016
9. "Complex event processing in physical systems: a pragmatic perspective," with R. Tkaczyk, M. Bonecki, S. Bohdanowicz, M. Ganzha, in: *Rocznik Naukowy Wydziału Zarządzania w Ciechanowie*, 1-4 (XI), 2017, 213-228
10. "Performance analysis of a parallel algorithm for restoring large-scale CT images," with S. Harizanov, I. Lirkov, K. Georgiev, M. Ganzha, in: *Journal of Computational and Applied Mathematics*, 310, 2017, 104-114, DOI: 10.1016/j.cam.2016.07.001
11. "AgentPlanner – Agent-based Timetabling System," with R. Tkaczyk, M. Ganzha, *Informatica*, 40(1), 2016, 3-17
12. "Semantic interoperability in the Internet of Things: an overview from the INTER-IoT perspective," with M. Ganzha, W. Pawłowski, P. Szymeja, K. Wasielewska, *Journal of Network and Computer Applications*, Elsevier, 2016 (available online 1 September 2016)
13. "Semantically Enriched Data Access Policies in eHealth," with M. Drozdowicz M. Ganzha, *Journal of Medical Systems*, 40(11), 2016, 238, DOI: 10.1007/s10916-016-0581-7
14. "An application of partition method for solving 3D Stokes equation," with M. Ganzha, K. Georgiev, I. Lirkov, *Computers & Mathematics with Applications*, Vol. 70, No. 11, 2015, 2762–2772
15. "Distributed Agent-Based Online Auction System," with C. Badica, S. Ilie, A. Muscar, A. Badica, L. Sandu, R. Sboră, M. Ganzha, *Computing and Informatics*, Vol. 33, No. 3, 2014, 518-552
16. "Multi-objective ACO algorithm for WSN layout: performance according to number of ants," with S. Fidanova, P. Marinov, *International Journal of Metaheuristics*, Vol. 3, No. 2, 2014, 149-161
17. "Generalized Matrix Multiplication and its Object Oriented Model," with M. Ganzha, S. G. Sedukhin, *Scalable Computing: Practice and Experience*, Vol. 15, No. 2, 2014, 187-200
18. "Image Scrambling on a "Mesh-of-Tori" Architecture," with M. Ganzha, S. G. Sedukhin, *Scalable Computing: Practice and Experience*, Vol. 15, No. 1, 2014, 79–87
19. "Applying Saaty's Multicriterial Decision Making Approach in Grid Resource Management," with K. Wasielewska, M. Ganzha, P. Szymeja, M. Drozdowicz, I. Lirkov, C. Badica, *Information Technology and Control*, Vol. 43, No. 1, 2014, 73-87
20. "Malicious Workers Tolerance in an Agent-Based Grid Resource Brokering System," with N. Attaoui, A. Bendahmane, M. Essaïdi, S. Sanyal, M. Ganzha, K. Wasielewska, *IADIS International Journal on Computer Science and Information Systems*, Vol. 9, No. 1, 2014, 55-70
21. "Establishing Semantic Closeness in an Agent-Based Travel Support System," with M. Mesjasz, M. Ganzha, *Scalable Computing: Practice and Experience*, Vol. 14, No. 2, 2013, 111-129

22. "Implementing the Duty Trip Support Application", with G. Frackowiak, S. K. Rhee, M. Szymczak, M. Ganzha, M.-W. Park, *Analele Universitatii din Craiova*, Anul XLI, Nr. 41, Volumul 1, 2013, 240-249
23. "Multiple Equivalent Simultaneous Offers Strategy in an Agent-Based Grid Resource Brokering System – Initial Considerations," with N. Attaoui, M. Ganzha, K. Wasielewska, M. Essaaidi, *Scalable Computing: Practice and Experience*, Vol. 14, No. 2, 2013, 83-94
24. "Implementing an eXAT-based Distributed Monitoring System Prototype," with G. Peregud, J. Zubek, M. Ganzha, *Computer Science and Information Systems*, Vol. 9, No. 3, 2012, 1249-1285
25. "Information Resource Management in an Agent-Based Virtual Organization – Initial Implementation," with M. Ganzha, A. Omelczuk, M. Wypysiak, *Computer Science and Information Systems*, Vol. 9, No. 3, 2012, 1307-1330
26. "Combining Information from Multiple Search Engines – Preliminary Comparison," with M. Ganzha, J. Stadnik, *Information Sciences*, 180(10), 2010, 1908-1923
27. "Mirroring Information Within an Agent-Team-Based Intelligent Grid Middleware; an Overview and Directions for System Development," with M. Ganzha, M. Drozdowicz, M. Senobari, I. Lirkov, S. Ivanovska, R. Olejnik, P. Telegin, *Scalable Computing: Practice and Experience*, Vol. 10, No. 4, 2009, 397-411
28. "Measuring Semantic Closeness of Ontologically Demarcated Resources," with S. K. Rhee, J. Lee, M.-W. Park, M. Szymczak, G. Frackowiak, M. Ganzha, *Fundamenta Informaticae*, 96, 2009, 395-418
29. "Adaptability in an Agent Based Virtual Organization," with G. Frackowiak, M. Ganzha, M. Gawinecki, M. Szymczak, C. Badica, Y.-S. Han, M.-W. Park, *International Journal of Agent-Oriented Software Engineering*, Vol. 3, No. 2/3, 2009, 188-211
30. "Information flow and usage in an e-shop operating within an agent-based e commerce system," with M. Drozdowicz, M. Ganzha, M. Gawinecki, A. Legalov, *Journal of Siberian Federal University*, Vol. 2, No. 1, 2009, 3-22
31. "Optimizing Blackboard Implementation of Agent-Conducted Auctions," with K. Wasielewska, M. Gawinecki, M. Ganzha, P. Kobzdej, *IADIS International Journal on WWW/Internet*, Vol. 6, No. 1, 2008, 50-60
32. "Designing and Implementing Data Mart for an Agent-Based E-Commerce System," with M. Drozdowicz, M. Ganzha, M. Gawinecki, P. Kobzdej, *IADIS International Journal on WWW/Internet*, Vol. 6, No. 1, 2008, 37-49
33. "Utilizing Agent Teams in Grid Resource Brokering," with M. Dominiak, M. Ganzha, M. Gawinecki, W. Kuranowski, S. Margenov, I. Lirkov, *International Transactions on Systems Science and Applications*, Vol. 3, No. 4, 2008, 296-306
34. "Forming and managing agent teams acting as resource brokers in the Grid – preliminary considerations," with W. Kuranowski, M. Ganzha, M. Gawinecki, I. Lirkov, S. Margenov, *International Journal of Computational Intelligence Research*, Vol. 4, No. 1, 2008, 9-16
35. "Implementing Rule-Based Automated Price Negotiation in an Agent System," with C. Badica, M. Ganzha, *Journal of Universal Computer Science*, 13(2), 2007, 244-266
36. "Designing New Ways for Selling Airline Tickets," with M. Vukmirovic, M. Szymczak, M. Gawinecki, M. Ganzha, *Informatica*, 31(1), 2007, 93-104
37. "Ontology-based Stereotyping in a Travel Support System," with M. Gawinecki, M. Kruszyk, *Annales UMCS Sectio AI Informatica*, vol. IV, 2006, 104-122
38. "Automated Travel Planning," with P. Nagrodkiwicz, *Annales UMCS Sectio AI Informatica*, vol. IV, 2006, 266-278

39. "Performance evaluation of SDIAGENT, a multi-agent system for distributed fuzzy geospatial data conflation," with S. Rahimi, J. Bjursell, M. Cobb, D. Ali, *Information Sciences*, 176, 2006, 1175-1189
40. "Software Agents in Support of Student Mobility," with M. Ganzha, W. Kuranowski, *Scalable Computing: Practice and Experience*, 7(1), 2006, 49-58
41. "Design and Implementation of a Grid Extension to Maple," with D. Petcu, D. Dubu, *Scientific Programming*, Vol. 13, No. 2, 2005, 137-150
42. "Efficiency of JADE Agent Platform," with K. Chmiel, M. Gawinecki, P. Kaczmarek, M. Szymczak, *Scientific Programming*, Vol. 13, No. 2, 2005, 159-172
43. "ORVFP - the Model and its DNC Implementation," with H. Zhou, S. Rahimi, R. Ahmad, Y. Wang, M. Cobb, *Informatica (Lithuania)*, Vol. 16, No 4, 2005, 603-616
44. "Traffic Accident Data Analysis Using Machine Learning Paradigms," with M. Chong, A. Abraham, *Informatica*, Vol. 29, No. 1, 2005, 89-98
45. "The Problem of Agent-Client Communication on the Internet," with M. Gawinecki, M. Gordon, P. Kaczmarek, *Scalable Computing: Practice and Experience*, 6(1), 2005, 111-123
46. "JADE-based Multi-agent E-commerce Environment: Initial Implementation," with: M. Ganzha, A. Pîrvănescu, C. Bădică, A. Abraham, *Analele Universității din Timișoara, Seria Matematică-Informatică*, Vol. XLII, 2004, 79-100
47. "Parallel Implementation of the  $k$ -connectivity Test Algorithm," with P. Sokołowski, P. Konieczka, J. Sochacki, *Annales UMCS Informatica*, AI, 2004, 91-99
48. "The Implementation and Analysis of Parallel Algorithm for Finding Perfect Matching in the Bipartite Graphs," with M. Chróśniak, J. Dworniczak, K. Ziarko, *Annales UMCS Informatica*, AI, 2004, 81-89
49. "Developing an Empirical Study of How Qualified Subjects Might be Selected for IT System Security Penetration Testing," with L. Guard, M. Crossland, J. Thomas, *Annales UMCS Informatica*, AI, 2004, 413-424
50. "Grid Security and Integration with Minimal Performance Degradation," with S. Sanyal, R. Vasudevan, A. Abraham, *Journal of Digital Information Management*, Vol. 2, No. 3, 2004, 122-126
51. "Indexing Agent for Data Gathering in an e-Travel System," with: A. Gilbert, A. Nauli, M. Gordon, S. Williams, J. Wright, *Informatica*, Vol. 28, No. 1, 2004, 69-78
52. "Parallel Application of Levenshtein Distance to Establish Similarity Between Strings," with: P. Kobzdej, D. Waligóra, K. Wielebinska, *International Journal of Computer Research*, Vo. 12, No. 4, 2003, 625-633
53. "An Agent System for Managing Uncertainty in the Integration of Spatio-Environmental Data," with F. Petry, M. Cobb and D. Ali, *Soft Computing*, Vol. 7, 2003, 402-411
54. "The World of Travel: a Comparative Analysis of Classification Methods," with A. Gilbert, M. Gordon, J. Wright, *Annales UMCS Informatica*, AI, 2003, 259-270
55. "A Knowledge-Based Multi-Agent System for Geospatial Data Conflation," with S. Rahimi, F. Petry, M. Cobb and D. Ali, *Journal of Geographic Information and Decision Sciences*, Vol. 6, No. 2, 2002, 67-81
56. "Applying Neural Networks to Practical Problems – Methodological Considerations," with A. Costeines, W. Douglass, P. Gatling, R. Niess, L. Scardino, *Informatica*, Vol. 25, No.1, 2001, 11-18
57. "Recent Advances in Solvers for Nonlinear Equations," with D. Dent and A. Kucaba-Piętal, *Computer Assisted Mechanics and Engineering Sciences*, Vol. 7, 2000, 493-505

58. "Almost Block Diagonal Linear Systems: Sequential and Parallel Solution Techniques, and Applications," with P. Amodio, J. Cash, G. Roussos, R. Wright, G. Fairweather, I. Gladwell and G. Kraut, *Numerical Linear Algebra with Applications*, Vol. 7, 2000, 275-317
59. "Stability and Performance Analysis of a Block Elimination Solver for Bordered Linear Systems" with P. Yalamov, *IMA Journal of Numerical Analysis*, Vol. 19, 1999, 335-348
60. "Conditioning of Pseudospectral Matrices for Certain Domain Decompositions," with A. Karageorghis, *Journal of Scientific Computing*, Vol. 14, No. 1, 1999, 107-119, appears also as: Technical Report, University of Cyprus, TR/15/1998
61. "Solving Structured Matrix Problems on a Cray Vector-Computer," with C. Cyphers, *Mathematica Balcanica*, Vol. 13, 1999, 106-117
62. "High Performance Solution of Complex Symmetric Eigenproblem," with I. Bar-On, *Numerical Algorithms*, Vol. 18, 1998, 195-208
63. "Direct Methods for Spectral Approximations in Non-conforming Domain Decompositions," with A. Karageorghis, *Computers and Mathematics with Applications*, Vol. 35, No. 11, 1998, 75-82, appears also as: Technical report, University of Cyprus, TR/12/96
64. "A Fast Solver for the Complex Symmetric Eigenproblem," with I. Bar-On, *Computer Assisted Mechanics and Engineering Sciences*, Vol. 5, No. 1, 1998, 85-92
65. "Parallel Computing for Computational Fluid Dynamics," with A. Kucaba-Piętal, *Zeszyty Naukowe WSiZ*, Vol. 8, No. 7, 1998, 101-108
66. "A Cyclic Reduction Approach to the Numerical Solution of Boundary Value ODE's," with P. Amodio *SIAM Journal of Scientific Computing*, Vol. 18, No. 1, 1997, 56-68, appears also as: Technical Report, University of Bari, 19/95
67. "An Efficient Direct Method for Fully Conforming Spectral Collocation Schemes," with A. Karageorghis, *Numerical Algorithms*, 12, 1996, 309-319, appears also as: Technical Report, University of Cyprus, TR/03/95
68. "On the Parallel Solution of Almost Block Diagonal Systems," with P. Amodio, *Control and Cybernetics*, Vol. 25, No. 3, 1996, 645-656
69. "Global Computer Networks and Their Role in Education," (in Polish) with T. Mitchell, *Neodidagmata*, XXII, 1996, 169-180
70. "Between Stylistic and Statistics in a Test of Attitudes Toward Computers," (in Polish) with S. Ubermanowicz, *Neodidagmata*, XXII, 1996, 87-106
71. "Parallel Solution of Almost Block Diagonal Systems on a Hypercube," with P. Amodio, *Linear Algebra and Applications*, Vol. 176, 1996, 85-103, appears also as: Technical Report, University of Bari, 29/94
72. "High Performance Solution of Partial Differential Equations Discretized Using a Chebyshev Spectral Collocation Method," with C. Cyphers and A. Karageorghis, *Journal of Computational and Applied Mathematics*, Vol. 66, No. 1, 1996, 71-80, appears also as: Technical Report, University of Cyprus, TR/02/94
73. "Survey of Parallel Algorithms for Block Bidiagonal Linear Systems," with P. Amodio and T. Politi, *Computers and Mathematics with Applications*, Vol. 31, No 7, 1996, 111-127, appears also as: Report, University of Bari, 27/94
74. "Using Strassen's Matrix Multiplication in High Performance Solution of Linear Systems," with C. Cyphers, *Journal of Computers in Mathematics Applications*, Vol. 31, No. 4/5, 1996, 55-61
75. "Parallel Gaussian Elimination Algorithms on a Cray Y-MP," *Informatica*, Vol. 19, No. 2, 1995, 235-240

76. "Research Methods Using Computer Networks," with T. Mitchell and G. Duckett, *Arachnet Electronic Journal of Virtual Culture*, Vol. 2, No. 4, 1994, (MITCHELL V2N4, 643 lines)
77. "A Parallel Chopping Algorithm for ODE Boundary Value Problems," with I. Gladwell, *Parallel Computing*, No. 19, 1993, 651-666, appears also as: SMU Report No. 90-9, 1990
78. "Parallel Solution of Almost Block Diagonal Systems Using Level 3 BLAS," with I. Gladwell, *Journal of Computational and Applied Mathematics*, Vol. 45, 1993, 181-189
79. "Comparison of Gaussian Elimination Algorithms on a Cray Y-MP," *Linear Algebra and Its Applications*, Vol. 172, 1992, 57-69
80. "Solving Almost Block Diagonal Systems on Parallel Computers," with I. Gladwell, *Parallel Computing*, No. 17, 1991, 133-153, appears also as: SMU Report No. 89-18, 1989

### **Papers in Refereed Conference Proceedings:**

1. "Multi-Domain Named Entity Recognition for Robotic Process Automation," with A. Denisiuk, M. Ganzha, K. Wasielewska, P. Sowiński, in: Proceedings of the 56<sup>th</sup> Hawaii International Conference on System Sciences, University of Hawaii, Lahaina, HI, 2023, 940-949, <https://hdl.handle.net/10125/102746+>
2. "Current Trends in AI-Based Educational Processes – An Overview," with: M. Ivanović, A. Klačnja-Milićević, M. Ganzha, C. Bădică, A. Bădică, L. C. Jain, in: M. Ivanović, A. Klačnja-Milićević, L.C. Jain (eds.), Handbook on Intelligent Techniques in the Educational Process, Learning and Analytics in Intelligent Systems book series (LAIS, volume 29), Springer, Cham, 2022, 1-15, DOI: 10.1007/978-3-031-04662-9\_1
3. "Cascaded Anomaly Detection with Coarse Sampling in Distributed Systems," with A. Bădică, C. Bădică, M. Bolanowski, S. Fidanova, M. Ganzha, S. Harizanov, M. Ivanovic, I. Lirkov, A. Paszkiewicz, K. Tomczyk, in: S. Sachdeva, Y. Watanobe, S. Bhalla, (eds) Big-Data-Analytics in Astronomy, Science, and Engineering, Lecture Notes in Computer Science (LNISA, volume 13167), Springer, Cham, 2022, 181–200, DOI: 10.1007/978-3-030-96600-3\_13
4. "Application of Ontologies in the Enterprise - Overview and Critical Analysis," with K. Wasielewska-Michniewska, M. Ganzha, A. Denisiuk, in: D. Goyal, A. Kumar, V. Piuri, M. Paprzycki, (eds.), Proceedings of the Third International Conference on Information Management and Machine Intelligence, Algorithms for Intelligent Systems, Springer, Singapore, 2022, 647–658, DOI: 10.1007/978-981-19-2065-3\_68
5. "Alignment Format for Semantic Translation," with P. Szymeja, W. Pawłowski, M. Ganzha, K. Wasielewska-Michniewska, in: Sustainable Technology and Advanced Computing in Electrical Engineering, LNEE, vol. 939, Springer, Singapore, 2022, 651–671, DOI: 10.1007/978-981-19-4364-5\_47
6. "Topical Classification of Food Safety Publications with a Knowledge Base," with P. Sowiński, K. Wasielewska-Michniewska, M. Ganzha, in: Sustainable Technology and Advanced Computing in Electrical Engineering, LNEE, vol. 939, Springer, Singapore, 2022, 673-693, DOI: 10.1007/978-981-19-4364-5\_48
7. "Multi3Generation: Multitask, Multilingual, Multimodal Language Generation," with A. Barreiro, J. G. C. de Souza, A. Gatt, M. Bhatt, E. Lloret, A. Erdem, D. Gkatzia, H. Moniz, I. Russo, F. Kepler, I. Calixto, F. Portet, I. Augenstein, M. Alhasani, in: Proceedings of the 23<sup>rd</sup> Annual Conference of the European Association for Machine Translation, Ghent, Belgium, European Association for Machine Translation, 2022, 347-348

8. "Experimenting with Assamese Handwritten Character Recognition," with J. Singh, S. Natesan, M. Ganzha, in: International Conference on Big Data Analytics, Lecture Notes in Computer Science, LNISA, Vol. 13167, Springer, Cham, 2022, 219-229, DOI: 0.1007/978-3-030-96600-3\_16
9. "Skin Cancer Recognition for Low Resolution Images," with M. Kortala, T. Jaworska, M. Ganzha, in: International Conference on Big Data Analytics, Lecture Notes in Computer Science, LNISA, Vol. 13167, Springer, Cham, 2022, 122-148, DOI: 10.1007/978-3-030-96600-3\_10
10. "An Energy Aware Clustering Scheme for 5G-Enabled Edge Computing Based IoMT Framework," with J. K. Samriya, M. Kumar, M. Ganzha, M. Bolanowski, A. Paszkiewicz, in: ICCS 2022: Computational Science – ICCS 2022, LNCS, Vol. 13351, Springer, Cham, 2022, 169-176, DOI: 10.1007/978-3-031-08754-7\_23
11. "Practical Aspects of Zero-Shot Learning," with E. Saad, M. Ganzha, in: ICCS 2022: Computational Science – ICCS 2022, LNCS, Vol. 13351, Springer, Cham, 2022, 88-95, DOI: 10.1007/978-3-031-08754-7\_12
12. "Machine Learning for Bus Travel Prediction," with Ł. Pałys, M. Ganzha, Computational Science – ICCS 2022: 22<sup>nd</sup> International Conference, London, UK, June, 2022, Proceedings, Part II, 703-710, DOI: 10.1007/978-3-031-08754-7\_72
13. "Modelling and Optimizing City Traffic Using an Agent Platform," with R. Pniewski, K. Stankevich, M. Ganzha, in: G. Mathur, M. Bunde, M. Lalwani, M. Paprzycki, (eds.), Proceedings of 2<sup>nd</sup> International Conference on Artificial Intelligence: Advances and Applications, Algorithms for Intelligent Systems. Springer, Singapore, 2022, 861–868, DOI:10.1007/978-981-16-6332-1\_71
14. "Assamese Character Recognition Using Convolutional Neural Networks," with M. Yadav, D. Mangal, N. Srinivasan, M. Ganzha, in: G. Mathur, M. Bunde, M. Lalwani, M. Paprzycki, (eds.), Proceedings of 2<sup>nd</sup> International Conference on Artificial Intelligence: Advances and Applications, Algorithms for Intelligent Systems. Springer, Singapore, 2022, 851–859, DOI:10.1007/978-981-16-6332-1\_70
15. "Evolution of MANO Towards the Cloud-Native Paradigm for the Edge Computing," with A. Fornés-Leal, I. Lacalle, R. Vaño, C. E. Palau, F. Boronat, M. Ganzha, in: Advanced Computing and Intelligent Technologies, LNEE, Vol. 914, 2022, 1-16, DOI: 10.1007/978-981-19-2980-9\_1
16. "Ontology Reuse: The Real Test of Ontological Design," with P. Sowiński, K. Wasielewska-Michniewska, M. Ganzha, C. Bădică, in: H. Fujita, Y. Watanobe, T. Azumi (eds.), New Trends in Intelligent Software Methodologies, Tools and Techniques, Frontiers in Artificial Intelligence and Applications, Vol. 355, IoS Press, 2022, 631-645, DOI: 10.3233/FAIA220292
17. "ASSIST-IoT: A Reference Architecture for Next Generation Internet of Things," with A. Fornés-Leal, I. L. Ubeda, C. E. Palau, P. Szmeja, M. Ganzha, E. Garro, F. Blanquer, in: H. Fujita, Y. Watanobe, T. Azumi (eds.), New Trends in Intelligent Software Methodologies, Tools and Techniques, Frontiers in Artificial Intelligence and Applications, Vol. 355, IoS Press, 2022, 109-128, DOI: 10.3233/FAIA220243
18. "Efficiency of REST and gRPC realizing communication tasks in microservice-based ecosystems," with M. Bolanowski, K. Žak, A. Paszkiewicz, M. Ganzha, P. Sowiński, I. L. Ubeda, C. E. Palau, in: H. Fujita, Y. Watanobe, T. Azumi (eds.), New Trends in Intelligent Software Methodologies, Tools and Techniques, Frontiers in Artificial Intelligence and Applications, Vol. 355, IoS Press, 2022, 97-108, DOI: 10.3233/FAIA220242

19. "Implementation of UI Methods and UX in VR in Case of 3D Printer Tutorial," with A. Paszkiewicz, M. Salach, M. Ganzha, M. Bolanowski, G. Budzik, H. Wójcik, F. Konstantinidis, C. E. Palau, in: H. Fujita, Y. Watanobe, T. Azumi (eds.), *New Trends in Intelligent Software Methodologies, Tools and Techniques*, *Frontiers in Artificial Intelligence and Applications*, Vol. 355, IoS Press, 2022, 460-471, DOI: 10.3233/FAIA220275
20. "Tactile Internet in Internet of Things Ecosystems," with I. L. Úbeda, C. López, R. Vaño, C. E. Palau, M. Esteve, M. Ganzha, P. Szmeja, in: *ICEEE 2022: Innovations in Electrical and Electronic Engineering*, LNEE, Vol. 894, Springer, Singapore, 2022, 794-807, DOI: 10.1007/978-981-19-1677-9\_69
21. "Network Load Balancing for Edge-Cloud Continuum Ecosystems," with A. Paszkiewicz, M. Bolanowski, C. Ćwikła, M. Ganzha, M. Paprzycki, C. E. Palau, I. L. Úbeda, in: *ICEEE 2022: Innovations in Electrical and Electronic Engineering*, LNEE, Vol. 894, Springer, Singapore, 2022, 638–651, DOI: 10.1007/978-981-19-1677-9\_56
22. "Feature Extraction for Polish Language Named Entities Recognition in Intelligent Office Assistant," with A. Denisiuk, M. Ganzha, K. Wasielewska, in: *Proceedings of the 55<sup>th</sup> Hawaii International Conference on System Sciences*, University of Hawaii, Manoa, HI, 2022, 1320-1329, <http://hdl.handle.net/10125/79494>
23. "Implementing Autonomic Internet of Things Ecosystems – Practical Considerations," with: K. Nalinaksh, P. Lewandowski, M. Ganzha, W. Pawłowski, K. Wasielewska-Michniewska, in: V. Malyshkin, et.al. (eds.), *Parallel Computing Technologies; PaCT 2021*, Springer, Cham, 2021, 420-433, DOI: 10.1007/978-3-030-86359-3\_32
24. "Control plane systems tracing and debugging – towards implementation," with: G. Peregud, M. Ganzha, in: R. Potolea, et.al. (eds.), *2021 20<sup>th</sup> International Symposium on Parallel and Distributed Computing (ISPDC)*, IEEE, Los Alamitos, 2021, 114-121, DOI: 10.1109/ISPDC52870.2021.9521647
25. "Probability of Loan Default – Applying Data Analytics to Financial Credit Risk Prediction," with: A. Łuczak, M. Ganzha, in: *Intelligent Systems, Technologies and Applications*, Springer, Singapore, 2021, 1-16, DOI: 10.1007/978-981-16-0730-1\_1
26. "Sunday-FL – Developing Open Source Platform for Federated Learning," with: P. Niedziela, A. Danilenka, D. Kolasa, M. Ganzha, K. Nalinaksh, in: *2021 Emerging Trends in Industry 4.0 (ETI 4.0)*, IEEE, Los Alamitos, 2021, 1-6, DOI: 10.1109/ETI4.051663.2021.9619338
27. "Multi-Agent Spatial SIR-Based Modeling and Simulation of Infection Spread Management," with: A. Badica, C. Badica, M. Ganzha, M. Ivanovic, in: M. Paszynski, et.al. (eds.), *International Conference on Computational Science ICCS 2021*, Springer, Cham, 2021, 440-453, DOI: 10.1007/978-3-030-77967-2\_37
28. "Teaching Bot to Play Thousand Schnapsen," with A. Domańska, M. Ganzha, in: A. Tomar, et.al. (eds.), *Machine Learning, Advances in: A. Tomar, et.al. (eds.), Computing, Renewable Energy and Communication*, Springer, Singapore, 2021, 645-655, DOI: 10.1007/978-981-16-2354-7\_57
29. "Control Plane Systems Tracing and Debugging – Existing Problems and Proposed Solution," with: G. Peregud, M. Ganzha, in: A. Tomar, et.al. (eds.), *Machine Learning, Advances in Computing, Renewable Energy and Communication*, Springer, Singapore, 2021, 1-11, DOI: 10.1007/978-981-16-2354-7\_1

30. "On the Role of Blockchain in Evolving the Online Business Landscape," with: S. -M. Simionescu, A. Bădică, C. Bădică, M. Ganzha, in: 2021 Conference on Information Communications Technology and Society (ICTAS), 2021, IEEE, Los Alamitos, 85-90, DOI: 10.1109/ICTAS50802.2021.9395045
31. "Applying Software Agents to Make City Traffic Management Smarter," with: R. Pniewski, D. Sellin, K. Stankevich, M. Ganzha, in: Proceedings of the Second International Conference on Information Management and Machine Intelligence, Springer, Singapore, 2021, 651-659, DOI: 10.1007/978-981-15-9689-6\_72
32. "Optimal Placement of Internet of Things Infrastructure in a Smart Building," with: R. Adasiewicz, M. Ganzha, M. Ivanovic, C. Badica, I. Lirkov, S. Fidanova, S. Harizanov, in: Proceedings of the Second International Conference on Information Management and Machine Intelligence, Springer, Singapore, 2021, 661-669, DOI: 10.1007/978-981-15-9689-6\_73
33. "Agent-based modelling of car platooning for traffic optimization," with M. Lemiec, K. Malinowski, M. Szymoński, M. Ganzha, in: 2021 4<sup>th</sup> International Symposium on Agents, Multi-Agent Systems and Robotics (ISAMSR), IEEE, Los Alamitos, CA, 2021, 130-137, DOI: 10.1109/ISAMSR53229.2021.9567855
34. "Multi-Agent Simulation of Core Spatial SIR Models for Epidemics Spread in a Population," with A. Bădică, C. Bădică, M. Ganzha, M. Ivanović, in: 2020 5<sup>th</sup> IEEE International Conference on Recent Advances and Innovations in Engineering (ICRAIE), IEEE, Los Alamitos, 2021, 1-7, doi: 10.1109/ICRAIE51050.2020.9358293
35. "Development of a Neural Network Library for Resource Constrained Speech Synthesis," with: S. Menon, P. Zarzycki, M. Ganzha, in: 2020 5<sup>th</sup> IEEE International Conference on Recent Advances and Innovations in Engineering (ICRAIE), IEEE, Los Alamitos, 2021, 1-8, DOI: 10.1109/ICRAIE51050.2020.9358310
36. "Applying Machine Learning to Study Infrastructure Anomalies in a Mid-size Data Center – Preliminary Considerations," with P. Janus, A. Bicki, M. Ganzha, in: Proceedings of the 54<sup>th</sup> Hawaii International Conference on System Sciences, University of Hawaii, Manoa, HI, 2021, 218-227, <http://hdl.handle.net/10125/70636>
37. "Comparing performance of classifiers applied to disaster detection in Twitter tweets – preliminary considerations", with: M. Plakhity, M. Ganzha, in: L. Bellatreche et.al. (eds), Big Data Analytics, LNCS 12581, Springer, Cham, 2020, DOI: 10.1007/978-3-030-66665-1\_16
38. "Applying machine learning to anomaly detection in car insurance sales," with: M. Piesio, M. Ganzha, in: L. Bellatreche et.al. (eds), Big Data Analytics, LNCS 12581, Springer, Cham, 2020, DOI: 10.1007/978-3-030-66665-1\_17
39. "Agent-Based Traffic Obstacles Information System", with: K. Ruta, D. Rakus, M. Ganzha, in: S. M. Thampi et.al. (eds.), Applied Soft Computing and Communication Networks; Proceedings of ACN 2019, Springer, Singapore, 2020, 81-93, DOI: 10.1007/978-981-15-3852-0\_6
40. "Evidence quality estimation using selected machine learning approaches," with A. Byczyńska, M. Ganzha, M. Kutka, in: Proceedings of 2020 Conference on Information Communications Technology and Society (ICTAS), IEEE Press, Piscataway, NJ, 2020, 1-8, DOI: 10.1109/ICTAS47918.2020.244042

41. "Integrating the AAL CasAware Platform Within an IoT Ecosystem, Leveraging the INTER-IoT Approach," with G. E. Modoni, E. G. Caldarolo, M. Sacco, K. Wasielewska, M. Ganzha, P. Szmeja, W. Pawłowski, C. E. Palau, B. Solarz-Niesluchowski, in: P.K. Singh, et.al., (eds.), Proceedings of First International Conference on Computing, Communications, and Cyber-Security (IC4S 2019), Lecture Notes in Networks and Systems, Vol. 121, Springer, Singapore, 2020, 197-212, DOI: 10.1007/978-981-15-3369-3\_15
42. "Recommender system for board games", with J. Zalewski, M. Ganzha, in: Proceedings of 23<sup>rd</sup> International Conference on System Theory, Control and Computing (ICSTCC), IEEE, Los Alamitos, CA, 2019, 249-254, DOI: 10.1109/ICSTCC.2019.8885455
43. "Performance analysis of hybrid parallel solver for 3D Stokes equation on Intel Xeon computer system", with I. Lirkov, M. Ganzha, in: M. Todorov (ed.), AIP Conference Proceedings, Vol. 2164, 2019, DOI: 10.1063/1.5130863
44. "Experimenting with facilitating collaborative travel recommendations", with: A. Załuski, M. Ganzha, M Paprzycki, C. Bădică, A. Bădică, M. Ivanović, S. Fidanova, I. Lirkov, in: Proceedings of 23<sup>rd</sup> International Conference on System Theory, Control and Computing (ICSTCC), IEEE, Los Alamitos, CA, 2019, 260-265, DOI: 10.1109/ICSTCC.2019.8885795
45. "Optimizing Nash Social Welfare in Semi-Competitive Intermediation Networks", with A. Bădică, C. Bădică, I. Buligiu, L. I. Ciora, M. Ganzha, M. Ivanović, in: 2019 IEEE International Symposium on INnovations in Intelligent SysTems and Applications (INISTA), IEEE Press, Los Alamitos, CA, 2019, 1-6, DOI: 10.1109/INISTA.2019.8778270
46. "On Measuring Learning Success of Students with Disabilities in Virtual Environments", with M. Ivanovic, A. Badica, M. Ganzha, C. Badica, A. Klasnja-Milicevic, in: Z. Budimac and B. Koteska (eds.), Proceedings of the Eighth Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications (SQAMIA) 2019, CEUR Workshop Proceedings, 2019, 6:1-6:12
47. "Fusing individual choices into a group decision with help of software agents and semantic technologies", with K. Ponichtera, M. Małkiński, J. Sawicki, M. Ganzha, in: Proceedings of 2018 Fourth International Conference on Advances in Computing, Communication & Automation (ICACCA 2018), IEEE Press, Los Alamitos, CA, 2019, 1-6, DOI: 10.1109/ICACCAF.2018.8776739
48. "An Internet of Things (IoT) solution framework for agriculture in India and other Third World countries", with K. Nalinaksh, V. Rishiwal, M. Ganzha, in: Proceedings of 2018 Fourth International Conference on Advances in Computing, Communication & Automation (ICACCA 2018), IEEE Press, Los Alamitos, CA, 2019, 1-6, DOI: 10.1109/ICACCAF.2018.8776792
49. "Identifier management in semantic interoperability solutions for IoT," with M. Ganzha, W. Pawłowski, P. Szmeja, K. Wasielewska, in: Proceedings of 2018 IEEE International Conference on Communications Workshops, IEEE Press, Los Alamitos, CA, 2018, 1-6, DOI: 10.1109/ICCW.2018.8403752
50. "Cataloging design patterns for Internet of Things artifact integration," with R. Tkaczyk, M. Ganzha, W. Pawłowski, P. Szmeja, K. Wasielewska, G. Fortino, in: Proceedings of 2018 IEEE International Conference on Communications Workshops, IEEE Press, Los Alamitos, CA, 2018, 1-6, DOI: 10.1109/ICCW.2018.8403758
51. "Towards IoT platforms integration Semantic Translations between W3C SSN and ETSI SAREF," with J. Moreira, L. Daniele, L.F. Pires, M. van Sinderen, K. Wasielewska, P. Szmeja, W. Pawłowski, M. Ganzha, in: Joint Proceedings of SEMANTiCS 2017 Workshops, CEUR Workshop Proceedings, 2018, 8 pages

52. "Declarative Ontology Alignment Format for Semantic Translation," with M. Ganzha, W. Pawłowski, P. Szymeja, K. Wasielewska, in: Proceedings of 3<sup>rd</sup> International Conference On Internet of Things: Smart Innovation and Usages (IoT-SIU), IEEE Press, Los Alamitos, CA, 2018, 1-8, DOI: 10.1109/IoT-SIU.2018.8519921
53. "Mining Smartphone Generated Data for User Action Recognition – Preliminary Assessment," with J. Fijałkowski, M. Ganzha, S. Fidanova, I. Lirkov, C. Badica, M. Ivanovic, in: M. Todorov (ed.), AIP Conference Proceedings 2025, AIP, 2018, DOI: 10.1063/1.5064928
54. "Hybrid Ant Colony Optimization Algorithm for Workforce Planning," with S. Fidanova, G. Luque, O. Roeva, P. Gepner, in: Proceedings of 2018 FedCSIS Conferemce, IEEE Press, Los Alamitos, CA, 2018, 233-236, DOI: 10.15439/2018F47
55. "System for Semantic Technology-based Access Management in a Port Terminal," with R. Szczekutek, M. Ganzha, S. Fidanova, I. Lirkov, C. Badica, M. Ivanovic, in: M. Todorov (ed.), AIP Conference Proceedings 2025, AIP, 2018, DOI: 10.1063/1.5064929
56. "Usability and Quality Parameters for E-Learning Environments and Systems," with M. Ivanovic, A. Milicevic, M. Ganzha, C. Badica, A. Badica, in: Z. Budimac (ed.), Proceedings of the Seventh Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications, CEUR Workshop Proceedings, 2018, 11 pages
57. "On Software Complexity of Agent-Oriented Logic Programs: an Empirical Analysis," with C. Badica, A. Badica, I. Buligiu, M. Ivanovic, M. Ganzha, in: Z. Budimac (ed.), Proceedings of the Seventh Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications, CEUR Workshop Proceedings, 2018, 10 pages
58. "Agent system for energy consumption scheduling in an intelligent neighborhood – preliminary considerations," with K. Bocian, M. Ganzha, in: Proceedings of 3<sup>rd</sup> International Conference on Advances in Computing, Communication & Automation, IEEE Press, Los Alamitos, CA, 2018, 1-8 logic p, DOI: 10.1109/ICACCAF.2017.8344717
59. "Alignment-based semantic translation of geospatial data," with M. Ganzha, W. Pawłowski, P. Szymeja, K. Wasielewska, in: Proceedings of 3<sup>rd</sup> International Conference on Advances in Computing, Communication & Automation, IEEE Press, Los Alamitos, CA, 2018, 1-8, DOI: 10.1109/ICACCAF.2017.8344716
60. "Towards high throughput semantic translation," with M. Ganzha, W. Pawłowski, P. Szymeja, K. Wasielewska, B. Solarz-Niesłuchowski, J. S. de Puga García, in: Proceedings of International Conference on Safety and Security in IoT, Springer, Berlin, 2018, 67-74, DOI: 10.1007/978-3-319-93797-7\_9
61. "Ant Colony Optimization Algorithm for Workforce Planning," with S. Fidanova, G. Luque, O. Roeva, P. Gepner, in: M. Ganzha et.al. (eds.), in: Proceedings of the 2017 Federated Conference on Computer Science and Information Systems, IEEE, Los Alamitos, 2017, 415–419
62. "Agent-based system for highway gasoline price negotiations," with S. Nowak, M. Ganzha, C. Badica, M. Ivanovic, S. Simonescu, in: Proceedings of the 8th Balkan Conference in Informatics, ACM, New York, 2017, 1-8
63. "Streaming Semantic Translations," with M. Ganzha, W. Pawłowski, P. Szymeja, K. Wasielewska, in: Proceedings of 21st International Conference on System Theory, Control and Computing (ICSTCC), IEEE, Los Alamitos, CA, 2017, 1-8
64. "From relational databases to an ontology - Practical considerations," with: R. Tkaczyk, P. Szymeja, M. Ganzha, B. Solarz-Niesłuchowski, in: Proceedings of 21st International Conference on System Theory, Control and Computing (ICSTCC), IEEE, Los Alamitos, CA, 2017, 254-261

65. "Agent-Based Computing in the Internet of Things: A Survey," with C. Savaglio, G. Fortino, M. Ganzha, C. Bădică, M. Ivanović, in: M. Ivanović et.al. (eds.), *Intelligent Distributed Computing XI, Studies in Computational Intelligence, Vol. 737*, Springer, Berlin, 2017, 307-320
66. "Improvement of Requirements Engineering Course – Medical Software Case Study," with M. Ivanovic, A. Badica, M. Ganzha, C. Badica, in: Z. Budimac (ed.), *Proceedings of the Sixth Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications, CEUR Workshop Proceedings, 2017*, 9 pages
67. "From implicit semantics towards ontologies – practical considerations from the INTER-IoT perspective," with M. Ganzha, W. Pawłowski, P. Szmeja, K. Wasielewska, C. E. Palau, in: *Proceedings of 14th IEEE Annual Consumer Communications & Networking Conference, IEEE, Los Alamitos, CA, 2017*, 59-64
68. "Building a platform to collect crowdsensing data. Preliminary considerations," with S. George, M. Ganzha, S. Fidanova, I. Lirkov, in: M. Todorov (ed.), *AIP Conference Proceedings 1895, AIP, 2018, DOI: 10.1063/1.5007406*
69. "Combining semantic technologies with a content-based image retrieval system - Preliminary considerations," with P. Chmiel, M. Ganzha, T. Jaworska, in: M. Todorov (ed.), *AIP Conference Proceedings 1895, AIP, 2018, DOI: 10.1063/1.5007405*
70. "Towards Common Vocabulary for IoT Ecosystems - Preliminary Considerations," with M. Ganzha, W. Pawłowski, P. Szmeja, K. Wasielewska, in: Nguyen N., et.al. (eds.), *Proceedings of ACIIDS 2017, Springer, Berlin, 2017*, 35-45
71. "Graphical Interface for Ontology Mapping with Application to Access Control," with M. Drozdowicz, M. Al Wazir, M. Ganzha, in: Nguyen N., et.al. (eds.), *Proceedings of ACIIDS 2017, Springer, Berlin, 2017*, 46-55
72. "Experiments with Multiple BDI Agents with Dynamic Learning Capabilities," with A. Bădică, C. Bădică, M. Ganzha, M. Ivanović, in: J. Baio, et.al. (eds.) *Highlights of Practical Applications of Scalable Multi-Agent Systems. The PAAMS Collection, Springer, 2016*, 274-286
73. "Software Metrics for Agent Technologies and Possible Educational Usage," with M. Ivanovic, A. Badica, M. Ganzha, C. Badica, in: Z. Budimac et.al. (ed.), *Proceedings of the Fifth Workshop on Software Quality Analysis, Monitoring, Improvement, and Applications, CEUR Workshop Proceedings, Vol. 1677, 2016*, 17-27
74. "InterCriteria Analysis of ACO start strategies," with S. Fidanova, O. Roeva, P. Gepner, in: M. Ganzha, et.al. (eds.), *Proceedings of the 2016 Federated Conference on Computer Science and Information Systems, IEEE, Los Alamitos, CA, 2014*, 547-550
75. "Agents in Grid Extended to Clouds," Wasielewska, M. Ganzha, C. Badica, M. Ivanovic, I. Lirkov, S. Fidanova, in: M. Todorov (ed.), *AIP Conference Proceedings, Vol. 1773, 2016*, <http://dx.doi.org/10.1063/1.4964984>
76. "Tools for Ontology Matching - Practical Considerations from INTER-IoT Perspective," with M. Ganzha, W. Pawłowski, P. Szmeja, K. Wasielewska, in: W. Li, et.al. (eds.), *Internet and Distributed Computing Systems, Springer, 2016*, 296-307, DOI: 10.1007/978-3-319-45940-0\_27
77. "Semantic Technologies for the IoT – an Inter-IoT Perspective," with M. Ganzha, W. Pawłowski, P. Szmeja, K. Wasielewska, in: *IEEE First International Conference on Internet-of-Things Design and Implementation (IoTDI), IEEE, Los Alamitos, CA, 2016*, 271-276

78. "Dimensions of ontological similarity," with P. Szmeja, M. Ganzha, W. Pawłowski, in: 2016 IEEE Tenth International Conference on Semantic Computing, IEEE, Los Alamitos, 2016, 246-249
79. "Semantic technologies in a decision support system," with K. Wasielewska, M. Ganzha, C. Badica, M. Ivanovic, I. Lirkov, in: M. Todorov (ed.), AIP Conference Proceedings, Vol. 1684, 2015, <http://dx.doi.org/10.1063/1.4934301>
80. "Semantic Policy Information Point – preliminary considerations," with M. Drozdowicz, M. Ganzha, S. Loshkovska, S. Koceski (eds.), ICT Innovations 2015, Springer, Berlin, 2016, 11-19
81. "New proposed implementation of ABC Method to Optimization of Water Capsule Flight," with J. Czerniak, G. Śmigielski, D. Ewald, W. Dobrosielski, in M. Ganzha, et.al. (eds.), Proceedings of the 2015 Federated Conference on Computer Science and Information Systems, IEEE, Los Alamitos, 2015, 489-493
82. "Hybrid GA-ACO Algorithm for a Model Parameters Identification Problem," with S. Fidanova, O. Roeva, in: M. Ganzha, et.al. (eds.), Proceedings of the 2014 Federated Conference on Computer Science and Information Systems, IEEE, Los Alamitos, 2014, 413-420
83. "Influence of the Number of Ants on Multi-objective Ant Colony Optimization Algorithm for Wireless Sensor Network Layout," with S. Fidanova, P. Marinov, in: Large Scale Scientific Computing, LNCS, Springer, Berlin, 2014, 232-239
84. "Reengineering and extending the Agents in Grid Ontology," with P. Szmeja, K. Wasielewska, M. Ganzha, M. Drozdowicz, S. Fidanova, I. Lirkov, in: Large Scale Scientific Computing, LNCS, Springer, Berlin, 2014, 565-573
85. "Multicriteria Analysis of Ontologically Represented Information," with K. Wasielewska, M. Ganzha, C. Badica, M. Ivanovic, I. Lirkov, in: M. Todorov (ed.), AIP Conference Proceedings 1629, 2014, 281-295
86. "Inserting "Brains" into Software Agents–Preliminary Considerations," with M. Ganzha, M. Mesjasz, M. Paprzycki, M. Ouedraogo, in: G. Fortino, et.al. (eds.), Internet and Distributed Computing Systems, Springer, Berlin, 2014, 3-14
87. "Equilibria in Concave Non-cooperative Games and Their Applications in Smart Energy Allocation," with M. Drwal, W. Radziszewska, M. Ganzha, M. Paprzycki, in: G. Fortino, et.al. (eds.), Internet and Distributed Computing Systems, Springer, Berlin, 2014, 409-421
88. "Performance analysis of scalable algorithms for 3D linear transforms," with I. Lirkov, M. Ganzha, S. Sedukhin, P. Gepner, in: M. Ganzha, et.al. (eds.), Proceedings of the 2014 Federated Conference on Computer Science and Information Systems, IEEE Press, Los Alamitos, CA, 2014, 613-622
89. "Implementing Agent-Based Resource Management in Tsunami Modeling – Preliminary Considerations," with M. Drozdowicz, K. Hayashi, M. Ganzha, A. Vazhenin, Y. Watanobe, in: A. Madaan, et.al. (eds.), Databases in Networked Information Systems, Springer, Berlin, 2014, 95-111
90. "Malicious Workers Tolerance in an Agent-Based Grid Resource Brokering System – Preliminary Considerations," with N. Attaoui, M. Essaïdi, M. Ganzha, in: B. Akhgar, H. R. Arabnia (eds.), Proceedings of the 2014 International Conference on Computational Science and Computational Intelligence, IEEE Computer Society, Piscataway, NJ, 2014, 233-236
91. "Combining AiG Agents with Unicore grid for improvement of user support," with K. Łysik, K. Wasielewska, M. Ganzha, J. Brennan, V. Holmes, I. Kureshi, in: Proceedings of the First International Symposium on Computing and Networking, IEEE Press, 2013, 66-74

92. "AgentPlanner – agent-based timetabling system – preliminary design and evaluation," with R. Tkaczyk, M. Ganzha, in: E. Petre, M. Brezovan (eds.), Proceedings of the 17th International Conference on Systems Theory, Control and Computing, IEEE Press, Los Alamitos, CA, 2013, 795-800
93. "Influence of the Population Size on the Genetic Algorithm Performance in Case of Cultivation Process Modelling," with O. Roeva, S. Fidanova, in: M. Ganzha, et.al. (eds.), Proceedings of the 2013 Federated Conference on Computer Science and Information Systems, IEEE Press, Los Alamitos, CA, 2013, 371-376
94. "Library for Matrix Multiplication-based Data Manipulation on a "Mesh-of-Tori" Architecture," with M. Ganzha, S. Sedukhin, in: M. Ganzha, et.al. (eds.), Proceedings of the 2013 Federated Conference on Computer Science and Information Systems, IEEE Press, Los Alamitos, CA, 2013, 455-462
95. "Agent-based Resource Management in Tsunami Modeling," with A. Vazhenin, Y. Watanobe, K. Hayashi, M. Drozdowicz, M. Ganzha, K. Wasielewska, P. Gepner, in: M. Ganzha, et.al. (eds.), Proceedings of the 2013 Federated Conference on Computer Science and Information Systems, IEEE Press, Los Alamitos, CA, 2013, 1047-1052
96. "Performance Evaluation of MPI/OpenMP Algorithm for 3D Time Dependent Problems," with I. Lirkov, M. Ganzha, P. Gepner, in: M. Ganzha, et.al. (eds.), Position Papers of the 2013 Federated Conference on Computer Science and Information Systems, Annals on Computer Science and Information Systems, Volume 1, PIPS Press, Warsaw, 2013, 27-32
97. "Integrating Jade and MAPS for the Development of Agent-Based WSN Applications," with M. Mesjasz, D. Cimadoro, S. Galzarano, M. Ganzha, G. Fortino, in: G. Fortino et.al. (eds.), Intelligent Distributed Computing VI, Springer, Berlin, 2013, 211-220
98. "Developing ontological model of computational linear algebra – preliminary considerations," with K. Wasielewska, M. Ganzha, I. Lirkov, in: M. Todorov (ed.), AIP Conference Proceedings, 1561, 2013, 133-143
99. "Comparative analysis of high performance solvers for solving Stokes equation," with M. Ganzha, I. Lirkov, in: M. Todorov (ed.), AIP Conference Proceedings, 1561, 2013, 347-354
100. "OntoPlay – a Flexible User-Interface for Ontology-based Systems," with M. Drozdowicz, M. Ganzha, P. Szmeja, K. Wasielewska, in: S. Ossowski, et.al. (eds), Proceedings of the First International Conference on Agreement Technologies, CEUR Workshop Proceedings, 2012, 86-100
101. "Information flow in a distributed agent-based online auction system," with S. Ilie, C. Bădică, A. Bădică, L. Sandu, R. Sboră, M. Ganzha, in: Proceedings of the 2nd International Conference on Web Intelligence, Mining and Semantics (WIMS '12), ACM, New York, NY, USA, Article 42, 2012, 9 pages
102. "Performance Analysis of Parallel Alternating Directions Algorithm for Time Dependent Problems," with I. Lirkov, M. Ganzha, in: R. Wyrzykowski, et.al. (eds.), Parallel Processing and Applied Mathematics, LNCS, Springer, Berlin, 2012, 173-182
103. "Generalizing Matrix Multiplication for Efficient Computations on Modern Computers," with S. G. Sedukhin, in: R. Wyrzykowski, et.al. (eds.) Parallel Processing and Applied Mathematics, LNCS, Springer, Berlin, 2012, 225-234
104. "Agents in Grid system – design and implementation," with K. Wasielewska, M. Drozdowicz, P. Szmeja, M. Ganzha, I. Lirkov, D. Petcu, C. Badica, in: I. Lirkov, et.al. (eds.), Large-Scale Scientific Computing, LNCS, Springer, Berlin, 2012, 662-669

105. "An Improved Sparse Matrix-Vector Multiply Based on Recursive Sparse Blocks Layout," with M. Martone, S. Filippone, in: I. Lirkov, et.al. (eds.), Large-Scale Scientific Computing, LNCS, Springer, Berlin, 2012, 606-613
106. "Highly Parallel Alternating Directions Algorithm for Time Dependent Problems," with M. Ganzha, K. Georgiev, I. Lirkov, S. Margenov, in: M. D. Todorov, Ch. I. Christov (eds.), Proceedings of the 3rd International Conference on Application of Mathematics in Technical and Natural Sciences, American Institute of Physics, College Park, MD, 2011, 210-217
107. "Developing Intelligent Bots for the Diplomacy Game," with S. Polberg, M. Ganzha, in: M. Ganzha, et.al. (eds.), Proceedings of the 2011 Federated Conference on Computer Science and Information Systems, IEEE CS Press, Los Alamitos, CA, 2011, 589-596
108. "Parallel Alternating Directions Algorithm for 3D Stokes Equation," with I. Lirkov, M. Ganzha, P. Gepner, in: M. Ganzha, et.al. (eds.), Proceedings of the 2011 Federated Conference on Computer Science and Information Systems, IEEE CS Press, Los Alamitos, CA, 2011, 443-450
109. "Developing an OO Model for Generalized Matrix Multiplication: Preliminary Considerations," with M. Ganzha, S. Sedukhin, in: M. Ganzha, et.al. (eds.), Proceedings of the 2011 Federated Conference on Computer Science and Information Systems, IEEE CS Press, Los Alamitos, CA, 2011, 439-442
110. "WSColab: Structured Collaborative Tagging for Web Service Matchmaking," with M. Gawinecki, G. Cabri, M. Ganzha, in: J. Filipe, J. Cordeiro (eds), Proceedings of the 6th International Conference on Web Information Systems and Technologies, INSTICC Press, 2010, 70-77
111. "Assembling Recursively Stored Sparse Matrices," with M. Martone, S. Filippone, S. Tucci, in: M. Ganzha, et. al. (eds), Proceedings of the IMCSIT Conference, IEEE Press, 2010, 317-325
112. "Use of Hybrid Recursive CSR/COO Data Structures in Sparse Matrices-Vector Multiplication," with M. Martone, S. Filippone, P. Gepner, S. Tucci, in: M. Ganzha, et. al. (eds), Proceedings of the IMCSIT Conference, IEEE Press, 2010, 327-335
113. "On BLAS Operations with Recursively Stored Sparse Matrices," with M. Martone, S. Filippone, S. Tucci, Proceedings of the SYNASC Conference, IEEE Press, 2010, 49-56
114. "On the Usage of 16 Bit Indices in Recursively Stored Sparse Matrices," with M. Martone, S. Filippone, S. Tucci, Proceedings of the SYNASC Conference, IEEE Press, 2010, 57-64
115. "WSColab: Structured Collaborative Tagging for Web Service Matchmaking," with M. Gawinecki, G. Cabri, M. Ganzha, Proceedings of the WEBIST Conference, Volume 1, 2010, 70-77
116. "Structured Collaborative Tagging: Is It Practical for Web Service Discovery?," with M. Gawinecki, G. Cabri, M. Ganzha, WEBIST Selected Papers, 2010, 69-84
117. "Utilizing Recursive Storage in Sparse Matrix-Vector Multiplication - Preliminary Considerations," with M. Martone, S. Filippone, S. Tucci, M. Ganzha, in: Proceedings of the CATA Conference, ISCA Press, 2010, 300-305
118. "Utilization of Modified CoreGRID Ontology in an Agent-based Grid Resource Management System," with M. Drozdowicz, M. Ganzha, K. Wasielewska, I. Lirkov, R. Olejnik, N. Attaoui, in: Proceedings of the CATA Conference, ISCA Press, 2010, 240-245
119. "GliderAgent – a proposal for an agent-based glider pilot support system," with A. Gab, P. Andreout, M. Ganzha, in: Proceedings of the 15th International Conference on Methods and Models in Automation and Robotics (MMAR), IEEE Press, 2010, 55-60

120. "Parallel Performance Evaluation of MIC(0) Preconditioning Algorithm for Voxel  $\mu$ FE Simulation," with I. Lirkov, Y. Vutov, and Maria Ganzha, in: R. Wyrzykowski, et.al. (eds.) *Parallel Processing and Applied Mathematics*, LNCS, Springer, 2010, 135-144
121. "Information Flow and Mirroring in an Agent-Based Grid Resource Brokering System," with M. Ganzha, M. Drozdowicz, M. Senobari, I. Lirkov, S. Ivanovska, R. Olejnik, P. Telegin, in: I. Lirkov, et.al. (eds.), *Large Scale Scientific Computing*, LNCS, Springer, 2009, 475-482
122. "Comparative Analysis of High Performance Solvers for 3D Elasticity Problems," with I. Lirkov, Y. Vutov, M. Ganzha, in: S. Margenov et.al. (eds.), *Numerical Analysis and its Applications*, LNCS, Springer, Berlin, 2009, 392-399
123. "Combining a JADE-agent-based Grid Infrastructure with the Globus Middleware – Initial Solution," with M. Senobari, M. Drozdowicz, W. Kuranowski, M. Ganzha, R. Olejnik, I. Lirkov, in: M. Mohammadian (ed.), *Proceedings of the CIMCA-IAWITC 2008 Conference*, IEEE CS Press, Los Alamitos, CA, 2008, 890-895
124. "Ontological Matchmaking in a Duty Trip Support Application in a Virtual Organization," with M. Szymczak, G. Frackowiak, M. Ganzha, S. K. Rhee, J. Lee, Y. T. Sohn, J. K. Kim, Y.-S. Han, M.-W. Park, in: M. Ganzha et.al. (eds.), *Proceedings of the 2008 International Multiconference on Computer Science and Information Technology*, IEEE CS Press, Los Alamitos, CA, 2008, 243-250
125. "Infrastructure for Ontological Resource Matching in a Virtual Organization," with M. Szymczak, G. Frackowiak, M. Ganzha, S. K. Rhee, M.-W. Park, Y.-S. Han, Y. T. Sohn, J. Lee, J. K. Kim, in: C. Badica et. al. (eds.). *Intelligent Distributed Computing, Systems and Applications*, Springer, Berlin, 2008, 11-22
126. "Are Many Heads Better Than One – On Combining Information from Multiple Internet Sources," with J. Stadnik, M. Ganzha, in: C. Badica et. al. (eds.). *Intelligent Distributed Computing, Systems and Applications*, Springer, Berlin, 2008, 177-186
127. "Implementing Commodity Flow in an Agent-Based Model E-commerce System, with M. Ganzha, M. Gawinecki, P. Kobzdej, T. Serzysko, in: R. Wyrzykowski et. al. (eds), *Parallel Processing and Applied Mathematics*, LNCS, Springer, Berlin, 2008, 400-408
128. "Applying SIMD Approach to Whole Genome Comparison on Commodity Hardware," with A. Jacob, S. Sanyal, R. Arora, M. Ganzha, in: R. Wyrzykowski et. al. (eds), *Parallel Processing and Applied Mathematics*, LNCS, Springer, Berlin, 2008, 1220-1229
129. "Utilizing Open Travel Alliance-based ontology of golf in an agent-based travel support system," with A. Cieslik, M. Ganzha, in: L. Rutkowski et. al. (eds.), *Artificial Intelligence and Soft Computing – ICAISC 2008*, LNAI, Springer, Berlin, 2008, 1173-1184
130. "On Resource Profiling and Matching in an Agent-Based Virtual Organization," with G. Frackowiak, M. Ganzha, M. Gawinecki, M. Szymczak, M.-W. Park, Y.-S. Han, in: L. Rutkowski et. al. (eds.), *Artificial Intelligence and Soft Computing -- ICAISC 2008*, LNAI, Springer, Berlin, 2008, 1210-1221
131. "On Human Resource Adaptability in an Agent-Based Virtual Organization," with C. Bădică, E. Popescu, G. Frackowiak M. Ganzha, M. Szymczak, M.-W. Park, in: N.T. Nguyen and R. Katarzyniak (eds.), *New Challenges in Applied Intelligence Technologies*, Springer, Berlin, 2008, 111-120
132. "Adaptive Information Provisioning in an Agent-Based Virtual Organization - Preliminary Considerations," with M. Ganzha, M. Gawinecki, M. Szymczak, G. Frackowiak, C. Bădică, E. Popescu, M.-W. Park, in: V. Negru et. al. (eds.), *Proceedings of the SYNASC Conference*, IEEE CS Press, Los Alamitos, CA, 2007, 235-241

133. "Developing Open Travel Alliance-based Ontology of Golf," with A. Cieslik, M. Ganzha, in: J. Cordeiro (et. al.), Proceedings of the 2008 WEBIST Conference, INSTICC Press, Setubal, Portugal, 2008, 62-69
134. "Generic Framework for Agent Adaptability and Utilization in a Virtual Organization – Preliminary Considerations,": with M. Ganzha, M. Gawinecki, M. Szymczak, G. Frackowiak, M.-W. Park, Y.-S. Han, Y.T. Sohn, in: J. Cordeiro (et. al.), Proceedings of the 2008 WEBIST Conference, INSTICC Press, Setubal, Portugal, 2008, IS-17-IS-25
135. "Adaptive Information Provisioning in an Agent-Based Virtual Organization – Ontologies in the System," with M. Szymczak, G. Frackowiak, M. Gawinecki, M. Ganzha, M.W. Park, Y.S. Han, Y.T. Sohn, in: N.T. Nguyen (ed.), Proceedings of the AMSTA-KES Conference, LNCS 4953, Springer, Heidelberg, Germany, 2008, 271-280
136. "BDI Agents in a Patient Monitoring Scenario," with A. Borowczyk, M. Gawinecki, in: Proceedings of the MODIES Workshop, IEEE Press, Los Alamitos, 2008, 82-85
137. "Supervising Agent Team an Agent-based Grid Resource Brokering System – Initial Solution," with W. Kuranowski, M Ganzha, I. Lirkov, in: F. Xhafa, L. Barolli (ed.), Proceedings of the Conference on Complex, Intelligent and Software Intensive Systems, IEEE CS Press, Los Alamitos, CA, 2008, 321-326
138. "Agents as resource brokers in grids – forming agent teams," with W. Kuranowski, M. Ganzha, M. Gawinecki, I. Lirkov, S. Margenov, in: Proceedings of the LSSC Meeting, Springer LNCS 4818, Berlin, Germany, 2008, 472-480
139. "Benchmarking Performance Analysis of Parallel Solver for 3D Elasticity Problems," with I. Lirkov, Y. Vutov, M. Ganzha, in: Proceedings of the LSSC Meeting, Springer LNCS 4818, Berlin, Germany, 2008, 692-700
140. "Introducing Commodity Flow to an Agent-Based Model E-commerce System," with T. Serzysko, M. Ganzha, M. Gawinecki, P. Kobzdej, C. Bădică, in: Proceedings of the 2007 IAT Conference, IEEE CS Press, Los Alamitos, CA, 2007, 294-298
141. "Resource Management in an Agent-based Virtual Organization – Introducing a Task Into the system," with M. Szymczak, G. Frackowiak, M. Ganzha, M. Gawinecki, M.-W. Park, in: Proceedings of the MaSeB Workshop, IEEE CS Press, Los Alamitos, CA, 2007, 458-462
142. "Introducing Collaborative Filtering into an Agent-Based Travel Support System," with M. Kruszyk, M. Ganzha, M. Gawinecki, in: Proceedings of the MaSeB Workshop, IEEE CS Press, Los Alamitos, CA, 2007, 439-443
143. "Introducing interaction-based auctions into a model agent-based e-commerce system – preliminary considerations," with M. Gawinecki, P. Kobzdej, M. Ganzha, in: R. do Nascimento et.al. (eds.) Proceedings of the EATIS Conference, ACM Digital Library, ACM Press, New York, NY, 2007, 8 pages
144. "Utilization of Software Agents and Web Services as Transducers for Legacy Software; Case Study Based on an SMTP Server, with M. Oglódek, M. Gawinecki, in: M. Ganzha et.al. (eds.), Proceedings of the 2007 IMCSIT Conference, PTI Press, Katowice, Poland, 2007, 47-57
145. "Implementing message exchange between airlines' GDSs and travel systems with ontologically demarcated data" with M. Vukmirovic, M. Gawinecki, P. Kobzdej, M. Ganzha, in: Proceedings of the 29th ITI Conference, IEEE, Piscatawy, NJ, 2007, 463-468
146. "Whole Genome Comparison on a Network of Workstations," with A. Jacob, S. Sanyal, R. Arora, M. Ganzha, in: D. Kranzmuller, et.al. (eds.), Proceedings of the ISPDC 2007 Conference, IEEE CS Press, Los Alamitos, CA, 2007, 31-36
147. "Adapting Price Negotiations to an E-commerce System Scenario," with M. Ganzha, in: K.

- Saeed, et.al. (eds.), Proceedings of the CISIM Conference, IEEE CS Press, Los Alamitos, CA, 2007, 380-386
148. "Agent-Based Adaptive Learning Provisioning in a Virtual Organization," with M. Ganzha, E. Popescu, C. Bădică, M. Gawinecki, in: K. M. Wegrzyn-Wolska and P. Szczepaniak (eds.), *Advances in Intelligent Web Mastering*, Springer, Berlin, 2007, 112-117
  149. "Pitfalls of agent system development on the basis of a Travel Support System," with M. Gawinecki, M. Kruszyk, M. Ganzha, in: W. Abramowicz (ed), *Proceedings of the BIS 2007 Conference*, Springer, Berlin, LNCS 4439, 2007, 488-499
  150. "Combining software agents and grid middleware," with R. Olejnik, B. Toursel, M. Ganzha, in: C. Cerin, K.-C. Li (eds.), *Proceeding of the GPC 2007 Conference*, Springer, Berlin, LNCS 4459, 2007, 678-685
  151. "Selecting grid-agent-team to execute user-job – initial solution," with M. Dominiak, M. Ganzha, *Proceedings of the Conference on Complex, Intelligent and Software Intensive Systems*, IEEE CS Press, Los Alamitos, CA, 2007, 249-256
  152. "Managing Information and Time Flow in an Agent-based E-commerce System," with M. Gawinecki, M. Ganzha, P. Kobzdej, C. Badica, M. Scafes, G. Popa, in: D. Petcu et. al. (eds.), *Proceedings of the Fifth International Symposium on Parallel and Distributed Computing*, IEEE CS Press, Los Alamitos, CA, 2006, 352-359
  153. "Efficient Matchmaking in an Agent-based Grid Resource Brokering System," with M. Dominiak, W. Kuranowski, M. Gawinecki, M. Ganzha, in: M. Ganzha et. al. (eds.), *Proceedings of the International Multiconference on Computer Science and Information Technology*, PTI Press, Katowice, Poland, 2006, 327-335
  154. "Functionalizing trust in a model agent-based e-commerce system," with M. Ganzha, M. Gawinecki, P. Kobzdej, C. Badica, in: M. Bohanec et. al. (eds.), *Proceedings of the 2006 Information Society Multiconference*, Josef Stefan Institute Press, 22-26
  155. "Towards Trust Management in an Agent-based E-commerce System – Initial Considerations, with C. Badica, M. Ganzha, M. Gawinecki, P. Kobzdej, in: A. Zgrzywa (ed.), *Proceedings of the MISSI 2006 Conference*, Wrocław University of Technology Press, Wrocław, Poland, 2006, 225-236
  156. "Designing ontology for the Open Travel Alliance airline messaging specification," with M. Vukmirovic, M. Szymczak, in M. Bohanec et. al. (eds.), *Proceedings of the 2006 Information Society Multiconference*, Josef Stefan Institute Press, 2006, 101-105
  157. "Utilizing agent teams in grid resource management - preliminary considerations," with M. Dominiak, W. Kuranowski, M. Gawinecki, M. Ganzha, in: *Proceedings of the IEEE J. V. Atanasoff Conference*, IEEE CS Press, Los Alamitos, CA, 2006, 46-51
  158. "Benchmarking Performance of an MPI-based Solver for 3D Elasticity Problems," with I. Lirkov, S. Margenov, in: *Proceedings of the IEEE J. V. Atanasoff Conference*, IEEE CS Press, Los Alamitos, CA, 2006, 260-265
  159. "Utilizing Dutch Auction in an Agent-based Model E-commerce System, with: C. Bădică, M. Ganzha, M. Gawinecki, P. Kobzdej, in: *Proceedings of the 14th International Enformatika Conference*, World Enformatika Society, 2006, 7-12
  160. "Porting CFD Codes Towards Grids: A Case Study," with D. Petcu, D. Vizman, in R. Wyrzykowski, et. al. (eds.), *PPAM 2005*, LNCS 3911, Springer, Berlin, 2006, 817-824
  161. "Improving Parallelism in Structural Data Mining," with M. Cai, I. Jonyer, in R. Wyrzykowski, et. al. (eds.), in: *PPAM 2005*, LNCS 3911, Springer, Berlin, 2006, 455-462

162. "A Consensus-Based Multi-agent Approach for Information Retrieval in Internet," with: N. T. Nguyen, M. Ganzha, in: V. N. Alexandrov et. al. (eds.), Computational Science, Proceedings Part III, Lecture Notes in Computer Science, 3993, Springer, Berlin, 2006, 208-125
163. "Design Considerations for a Negotiation Component in a Model E-commerce Agent System," with C. Badica, G.-G. Popa, M. Scafes, M. Ganzha, M. Gawinecki, P. Kobzdej, Proc. Eighth International Symposium on Symbolic and Numeric Algorithms for Scientific Computing SYNASC 2006, IEEE CS Press, Los Alamitos, CA, 2006, 205-20
164. "Rule-Based Automated Price Negotiation: an Overview and an Experiment," with C. Bădică, M. Ganzha, in: L. Rutkowski, et. al. (eds.), Proceedings of the ICAISC Conference, LNAI, Springer, Berlin, 2006, 1050-1059
165. "Developing a Model Agent-based Airline Ticket Auctioning System," with M. Vukmirovic, M. Ganzha, in: M. Kłopotek et. al. (eds.), Intelligent Information Processing and Web Mining, Advances in Soft Computing, Springer, Berlin, 2006, 297-306
166. "Utilizing Ontologies in an Agent-based Airline Ticket Auctioning System," with M. Vukmirovic, M. Szymczak, M. Ganzha, in: V. Luznar et. al. (eds.), Proceedings of the 28th ITI Conference, IEEE, Piscatawy, NJ, 2006, 385-390
167. "Implementing Rule-based Mechanisms for Agent-based Price Negotiations," with C. Bădică, A. Bădită, M. Ganzha, A. Iordache, in: L. Liebrock et. al. (eds.), Proceedings of the ACM SAC Conference, ACM Press, New York, NY, 2006, 96-100
168. "Logic Restructuring for Delay Balancing in Wave Pipelined Circuits: an Integer Programming Approach," with S. Sethupathy, N. Park, in: D. Zaharie et. al. (eds.), Proceedings of the SYNASC 2005 Conference, IEEE Press, Los Alamitos, CA, 2005, 182-189
169. "Mobile Agents in a Multi-Agent E-Commerce System," with C. Bădică, M. Ganzha, in: D. Zaharie et. al. (eds.), Proceedings of the SYNASC 2005 Conference, IEEE Press, Los Alamitos, CA, 2005, 207-214
170. "Rule-Based Framework for Automated Negotiation: Initial Implementation," with C. Bădică, A. Bădită, M. Ganzha, A. Iordache, in: Proceedings of the 1-st Conference on Rules and Rule Markup Languages for the Semantic Web, LNCS 3791, Springer, 2005, 193-198
171. "UML Models of Agents in a Multi-Agent E-Commerce System," with: C. Bădică, M. Ganzha, in: Proceedings of the ICEBE 2005 Conference, IEEE Press, Los Alamitos, CA, 2005, 56-61
172. "Combining Rule-Based and Plug-in Components in Agents for Flexible Dynamic Negotiations," with: C. Bădică, M. Ganzha, A. Pirvănescu, in: M. Pechoucek, et. al. (eds.) LNCS, Volume 3690, Springer Verlag, 2005, 555-558
173. "Representing Users in a Travel Support System," with M. Gawinecki, Z. Vetulani, M. Gordon, in: Proceedings of the ISDA 2005 Conference, IEEE Press, Los Alamitos, CA, 2005, 393-398
174. "Designing Agent Based Travel Support System," with M. Gordon, in: Proceedings of the ISPD 2005 Conference, IEEE Computer Society Press, Los Alamitos, CA, 2005, 207-214
175. "Two Approaches to Code Mobility in an Agent-based E-commerce System," with C. Bădică, M. Ganzha, in: C. Ardil (ed.), Enformatika, Volume 7, 101-107
176. "Clustering Multiple and Cooperative Instances of Computational Intensive Software Tools," with D. Petcu, M. Ganzha, in: V. Malyskin (ed.), Parallel Computing Technologies, LNCS, Vol. 3606, Springer, Berlin, Germany, 2005, 452-456

177. "Experimenting With a Multi-Agent E-Commerce Environment," with C. Bădică, M. Ganzha, A. Pîrvănescu, in: V. Malyshkin (ed.), *Parallel Computing Technologies, LNCS*, Vol. 3606, Springer, Berlin, Germany, 2005, 393-402
178. "Conceptual Architecture and Sample Implementation of a Multi-Agent E-Commerce System," with: A. Pîrvănescu, C. Bădică, M. Ganzha, in: I. Dumitrache, C. Buiu (eds.), *Proceedings of the 15th International Conference on Control Systems and Computer Science CSCS'15, Volume II*, Editura "Politehnica Press," Bucharest, Romania, 2005, 620-625
179. "Designing an Agent-based Student Mobility Support System," with: M. Ganzha, W. Kuranowski, S. Rahimi, M. Szymczak, in: W. Essaidi, N. Raissouni (ed.) *Information and Communication Technologies International Symposium Proceedings*, Al Khalij Al Arabi, Tetuan, Morocco, 2005, 44-50
180. "Numerical Software for Solving Dense Linear Algebra Problems on High Performance Computers," with: P. Stpoczyński, in: *Proceedings of the APLIMAT 2005 Conference (Plenary Lectures)*, Slovak University of Technology Press, Bratislava, 2005, 207-218
181. "Real Stock Trading Using Soft Computing Models," with: B. Doeksen, A. Abraham, J. Thomas, in: *Proceedings of the IEEE International Conference on Information Technology: Coding and Computing (ITCC'05)*, IEEE Computer Society Press, Los Alamitos, CA, 2005, 162-167
182. "Enabling Semantic Referencing of Selected Travel Related Resources," with: M. Gawinecki, M. Gordon, M. Szymczak, Z. Vetulani, J. Wright, in: W. Abramowicz (ed.) *Proceedings of the 8th International Conference on Business Information Systems (BIS 2005)*, Poznań University of Economics Press, Poznań, Poland, 2005, 271-288
183. "Survey on Symbolic Computations on Grid," with: D. Petcu, D. Tepeneu, T. Mizutani, T. Ida, in: *Proceedings of the 3rd International Conference Sciences of Electronic, Technologies of Information and Telecommunications*, Susa, Tunisia, March, 2005, CD
184. "Marketing Activities of Polish Internet Retailers," with: P. Drygas, M. Kowalkiewicz, in: Nuno Guimarães and Pedro Isaías (eds.) *Proceedings IADIS International Conference on Applied Computing 2005*, Algarve, Portugal, IADIS Press, Lisbon, 479-486
185. "Developing a JADE-based Multi-Agent E-Commerce Environment," with: A. Pîrvănescu, C. Bădică, in: Nuno Guimarães and Pedro Isaías (eds.) *Proceedings IADIS International Conference on Applied Computing 2005*, Algarve, Portugal, IADIS Press, Lisbon, 425-432
186. "Mobile Agent Security – an Overview," with Ł. Nitshke, M. Ren, in: E. Niedzielska et. al. (eds.), *Modern Information Technologies in Management*, Wrocław University of Economics Press, Wrocław, 2004, 600-608
187. "Extending Maple to the Grid: Design and Implementation," with D. Petcu, D. Dubu, in: *Proceedings of the ISPDC 2004 Conference*, IEEE Computer Society Press, Los Alamitos, CA, 2004, 209-216
188. "Testing the Efficiency of JADE Agent Platform," with K. Chmiel, D. Tomiak, M. Gawinecki, P. Kaczmarek, M. Szymczak, in: *Proceedings of the ISPDC 2004 Conference*, IEEE Computer Society Press, Los Alamitos, CA, 2004, 49-57
189. "Implementing Agents Capable of Dynamic Negotiations," with A. Abraham, A. Pîrvănescu, C. Bădică, in: D. Petcu et. al. (eds.) *Proceedings of SYNASC04: Symbolic and Numeric Algorithms for Scientific Computing*, Mirton Press, Timisoara, 2004, 369-380
190. "Grid-based Parallel Maple," with D. Petcu, D. Dubu, in: D. Kranzmüller et. al. (eds.), *Recent Advances in Parallel Virtual Machine and Message Passing Interface*, Springer, Berlin, 2004, 215-223

191. "Agent Technology in Modelling E-commerce Process; Sample Implementation," with K. Chmiel, D. Czech, in: C. Danilowicz (ed.), *Multimedia and Network Information Systems*, Volume 2, Wrocław University of Technology Press, 2004, 13-22
192. "Traffic Accident Data Mining Using Machine Learning Paradigms," with M. Chong, A. Abraham, *Proceedings of the Fourth International Conference on Intelligent Systems Design and Applications (ISDA'04)*, Technical University of Budapest Press, 2004, 415-420
193. "Towards a Grid-Aware Computer Algebra System," with D. Petcu, D. Dubu, in: M. Bubak et. al. (eds.), *Computational Science – ICCS 2004*, Springer Verlag, Berlin, 2004, 490-494
194. "Data Mining Approach for Analyzing Call Center Performance," with R. Guo, A. Abraham, S. Mukkamala, in: B. Orchard et. al. (eds.), *Innovations in Applied Intelligence*, Springer Verlag, Berlin, 2004, 1092-1101
195. "A System for Ensuring Data Integrity in Grid Environments," with A. Gilbert, A. Abraham, in: P. K. Srimani et. al. (eds.), *Proceedings of the International Conference on Information Technology: Coding and Computing (Volume I)*, IEEE Computer Society Press, Los Alamitos, CA, 2004, 435-439
196. "Significance of Steganography on Data Security," with S. Venkatraman, A. Abraham, in: P. K. Srimani et. al. (eds.), *Proceedings of the International Conference on Information Technology: Coding and Computing (Volume II)*, IEEE Computer Society Press, Los Alamitos, CA, 2004, 347-351
197. "Traffic Accident Analysis Using Decision Trees and Neural Networks," with M. M. Chong, A. Abraham, in: N. Guimarães, P. Isaías (ed.), *Proceedings of the IADIS International Conference Applied Computing 2004*, IADIS Press, Volume II, 39-42
198. "Some Aspects of Parallel Performance of a Seismic Ray Analysis Algorithm," with: B. Digas, J. Kopsky, in: R. Wyrzykowski et. al. (ed.), *Proceedings of the 5th International Conference on Parallel Processing and Applied Mathematics*, Springer-Verlag, Berlin, LNCS, vol. 3019, 2004, 497-504
199. "Developing Intelligent Agent Systems," in: R. Akerkar (ed.), *Artificial Intelligence and its Applications*, TMRP Press, Kolhapur, India, 2003, 1-3
200. "Preliminary Performance Evaluation of an Agent-Based Geospatial Data Conflation System," with S. Rahimi, J. Bjursell, D. Ali, M. Cobb, in: J. Liu et. al. (eds.), *Proceedings of the IEEE/WIC International Conference on Intelligent Agent Technology (IAT 2003)*, IEEE Computer Society Press, Los Alamitos, CA, 2003, 550-553
201. "Agent Systems Today; Methodological Considerations," with A. Abraham, in: *Proceedings of 2003 International Conference on Management of e-Commerce and e-Government*, Jangxi Science and Technology Press, Nanchang, China, 2003, 416-421
202. "Software Agents in the Real World," in: M. Bohanec et. al. (ed.), *Intelligent and Computer Systems*, Josef Stefan Institute Press, Ljubljana, Slovenia, 2003, 5-8
203. "Location Based Approach for Energy Efficient, Secure Mobile Commerce," with M. Shen, J. Thomas, M. Crossland, in: *Proceedings of 2003 International Conference on Management of e-Commerce and e-Government*, Jangxi Science and Technology Press, Nanchang, China, 2003, 320-325
204. "Agents Capable of Dynamic Negotiations," with: G. Parakh, S. Rani, A. Abraham, J. Thomas, in: M. Paprzycki (ed.), *Electronic Commerce; Research and Development*, ACTEN Press, Wejherowo, Poland, 2003, 113-120
205. "Software Agents as a Programming Methodology," (in Polish) in: Z. Huzar, Z. Mazur (ed.), *Problemy i Metody Inżynierii Oprogramowania*, WNT, Warszawa, 2003

206. "Using Software Agents to Index Data in an E-Travel System," with: P. Harrington, M. Gordon, A. Nauli, S. Williams, J. Wright, in: N. Callaos (ed.), Electronic Proceedings of the 7th SCI Conference, Orlando, 2003, CD, file: 001428.pdf, 6 pages
207. "Using the ebXML Registry Repository to Manage Information in an Internet Travel Support System," with J. Wright, M. Gordon, S. Williams, P. Harrington, in: W. Abramowicz and G. Klein (eds.), Proceedings of the BIS'2003 Conference, Poznań University of Economics Press, Poznań, Poland, 2003, 81-89
208. "Knowledge Management in an Internet Travel Support System," with M. Gordon, V. Galant, in: B. Wiszniewski (ed.), Proceedings of ECON2002, ACTEN, Wejcherowo, 2002, 97-104
209. "Knowledge Management in an E-commerce System," with M. Gordon, J. Jakubczyc, V. Galant, Proceedings of the Fifth International Conference on Electronic Commerce Research, Montreal, Canada, October, 2002, CD, 15 pages
210. "Knowledge Representation in the Agent-Based Travel Support System," with M. Gordon, A. Gilbert, in: T. Yakhno (ed.) Advances in Information Systems, Springer-Verlag, Berlin, 2002, 232-241
211. "Agent-Client Interaction in a Web-based E-commerce System," with M. Gordon, V. Galant, in: D. Grigoras (ed.), Proceedings of the International Symposium on Parallel and Distributed Computing, University of Iași Press, Iași, Romania, 2002, 1-10
212. "Solvers for Nonlinear Algebraic Equations; Where are We Today?" with D. Dent, A. Kucaba-Piętal, in: R. Wyrzykowski et. al. (eds.), Proceedings of the 4th International Conference on Parallel Processing and Applied Mathematics, Springer-Verlag, Berlin, LNCS, vol. 2328, 2002, 719-728
213. "Travel Support System – an Agent Based Framework," with R. Angryk, V. Galant, M. Gordon, in: H. R. Arabnia, Y. Mun (ed.), Proceedings of the International Conference on Internet Computing (IC'02), CSREA Press, Las Vegas, NV, 2002, 719-725
214. "Methodology for Spatial Data Integration Agents," with M. Cobb, D. Ali, S. Rahimi, C. Bjursell, R. Angryk, F. Petry, in: D. Ivanchev and M. D. Todorov (eds.) Proceedings of the 27th Summer School "Applications of Mathematics in Engineering and Economics" (AMEE01), Heron Press, Sofia, 2002, 653-664
215. "Parallelization of Othello Game-tree Search Algorithms," with C. Bjursell, in: D. Ivanchev and M. D. Todorov (eds.) Proceedings of the 27th Summer School "Applications of Mathematics in Engineering and Economics" (AMEE01), Heron Press, Sofia, 2002, 638-647
216. "Infrastructure for E-Commerce," with J. Jakubczyc, V. Galant, in: M. Nycz, M. L. Owoc (eds.), Proceedings of the 10th Conference Extracting Knowledge from Databases, Wrocław University of Economics Press, 2002, 32-47
217. "Information Personalization in an Internet Based Travel Support System," with V. Galant, in: Abramowicz (ed.), Proceedings of the BIS'2002 Conference, Poznań University of Economics Press, Poznań, Poland, 2002, 191-202
218. "Studying the Performance of Nonlinear Systems Solvers Applied to the Random Vibration Test," with D. Dent, A. Kucaba-Piętal and L. Ludański, in: S. Margenov et. al. (eds.), Large Scale Scientific Computing, Proceedings of the Third International Conference, Springer-Verlag, Berlin, Germany, 2001, 471-478
219. "Development of E-commerce in Poland and Role of the Banking Sector," with M. Machowiak, in: Proceedings of the Fourth International Conference on Electronic Commerce Research, SMU Press, Dallas, TX, 2001, 456-465

220. "Supercomputers on Their Way to Business," with P. J. Kalczyński, in: A. Grzech and Z. Wilimowska (eds.), Proceedings of the Information Systems Architecture and Technology (ISAT 2001) Conference, Wrocław University of Technology Press, Wrocław, Poland, 2001, 109-116
221. "Personalized Traveler Information System," with P. J. Kalczyński, I. Fiedorowicz, W. Abramowicz, M. Cobb, in: B. F. Kubiak and A. Korowicki (eds.), Proceedings of the 5th International Conference Human-Computer Interaction, Akwila Press, Gdańsk, Poland, 2001, 445-456
222. "An Analysis of Intelligence-Enhancing Techniques for Software Agents," with S. Rahimi, M. Cobb, D. Ali and F. Petry, in: N. Callaos et. al. (eds.), Electronic Proceedings of the 5th SCI Conference and the 7th ISAS Conference, Orlando, 2001, CD, 6 pages
223. "An Evaluation of Mobile Agent Environments for a Geospatial Knowledge Integration and Management System," with S. Rahimi, J. Bjursell, R. Angryk, D. Ali, M. Cobb and M. Gibutowski, in: S. Niwiński (ed.), Proceedings of the PIONIER 2001 Conference, Technical University of Poznań Press, Poznań, Poland, 2001, 267-278
224. "Intelligent Agents in a Distributed GIS for Improving Interoperability," with K. Kołodziej, D. Ali and M. Cobb, in: S. Niwiński (ed.), Proceedings of the PIONIER 2001 Conference, Technical University of Poznań Press, Poznań, Poland, 2001, 257-266
225. "Development of a Travel Support System Based on Intelligent Agent Technology," with R. Angryk, K. Kołodziej, I. Fiedorowicz, M. Cobb, D. Ali and S. Rahimi, in: S. Niwiński (ed.), Proceedings of the PIONIER 2001 Conference, Technical University of Poznań Press, Poznań, Poland, 2001, 243-255
226. "Comparison of Mobile Agent Frameworks for Distributed Geospatial Data Integration," with S. Rahimi, R. Angryk, J. Bjursell, D. Ali, M. Cobb, M. Gibutowski and K. Kołodziej, in: M. Konečný (ed.), Proceedings of the 4th AGILE Conference on Geographic Information Science, AGILE, Brno, 2001, 643-655
227. "Solvers for Systems of Nonlinear Algebraic Equations – Their Sensitivity to Starting Vectors," with D. Dent and A. Kucaba-Piętal, in: L. Vulkov et. al. (eds.) Proceedings of Second Conference on Numerical Analysis and Applications, Springer Verlag, Berlin, 2001, 230-237
228. "Parallel Quasi-Monte Carlo Computation of Invariant Measures," with J. Ding, B. Seyfarth and Z. Wang, in: Proceedings of the Tenth SIAM Conference on Parallel Processing for Scientific Computing, SIAM, Philadelphia, 2001, CD, files Jiu~1.pdf and Jiu~1.ps
229. "Cross-Correlation for Speaker-Independent Small Vocabulary Voice Recognition," with S. Rahimi, Journal of Mathematical Modelling and Scientific Computing, Vol. 10, 2000, 107-112
230. "Parallel Processing for Forming a Reference Pattern Set for a Speaker-Independent Voice Recognition System," with S. Rahimi, in: B. I. Cheshankov and M. D. Todorov (eds.), Proceedings of the XXVI Summer School "Application of Mathematics in Engineering and Economics," Heron Press, Sofia, 2000, 322-326
231. "Applying Neural Networks to Hyperspectral Data," with R. Niess, R. Holyer, L. Scardino, and W. Douglass, in: B. I. Cheshankov and M. D. Todorov (eds.), Proceedings of the XXVI Summer School "Application of Mathematics in Engineering and Economics," Heron Press, Sofia, 2000, 300-304
232. "Fully Vectorized Solver for Linear Recurrence Systems with Constant Coefficients," with P. Stpiczyński, in: Proceedings of the VECPAR 2000 – 4th International Meeting on Vector and Parallel Processing, University of Porto, Porto, Portugal, June 2000, 541-551

233. "Comparing Performance of Neural Networks Applied to a Simplified Recognition Problem," with R. Niess, J. Thomas, L. Scardino and W. Douglass, in: J. Etheredge et. al. (eds.), Proceedings of the 13th International Florida AI Research Society Conference, AAAI Press, Menlo Park, CA, 2000, 235-239
234. "Development of e-Banking in Poland – Critical Analysis," with M. Machowiak, in: W. Abramowicz and M. Orłowska (eds.), Proceedings of the BIS'2000, 4th International Conference on Business Information Systems, Springer-Verlag, London, 2000, 265-282
235. "Benchmarking Performance of Parallel Computers Using a 2D Elliptic Solver," with S. Margenov and I. Lirkov, in: O. Iliev et. al. (eds.), Recent Advances in Numerical Methods and Applications II, World Scientific, Singapore, 1999, 491-499
236. "Studying the Numerical Properties of Solvers for Systems of Nonlinear Equations," with D. Dent and A. Kucaba-Piętal, in: D. Bainov (ed.) Proceedings of the 9th Colloquium on Difference Equations, VSP, Utrecht, 1999, 113-118
237. "Applying PNN's to the Multifont Pattern Recognition Problem," with S. Bowers in: D. Bainov (ed.) Proceedings of the 9th Colloquium on Difference Equations, VSP, Utrecht, 1999, 311-318
238. "Applying Probabilistic Neural Networks to the Multifont Recognition Problem with Large Training Set," with S. Bowers and A. Costeines, in: A.N. Kumar et. al. (eds.), Proceedings of the Twelfth International Florida AI Research Society Conference, AAAI Press, Menlo Park, CA, 1999, 336-339
239. "Evaluating the Performance of Three Neural Network Architectures Applied to the Pattern Recognition Problem," with S. Bowers and A. Costeines, Proceedings of the 15th Annual Conference on Applied Mathematics, University of Central Oklahoma, Edmond, OK, 1999, 29-36
240. "Performance of Solvers for Systems of Nonlinear Equations," with D. Dent and A. Kucaba-Piętal, Proceedings of the 15th Annual Conference on Applied Mathematics, University of Central Oklahoma, Edmond, OK, 1999, 67-77
241. "Comparing Performance of String Matching Algorithms," with C. Wright, Proceedings of the 15th Annual Conference on Applied Mathematics, University of Central Oklahoma, Edmond, OK, 1999, 257-263
242. "Implementing Parallel Elliptic Solver on a Beowulf Cluster," with J. Sanchez and S. Petrova, Electronic Journal of Differential Equations, Conference 02 (Proceedings of the 15th Annual Conference on Applied Mathematics), 1999, 75-85, appears also in: Proceedings of the 15th Annual Conference on Applied Mathematics, University of Central Oklahoma, Edmond, OK, 1999, 211-221
243. "Parallel Conjugate Gradient Method with Circulant Block-Factorization Preconditioners for 3D Elliptic Problems," with I. Lirkov and S. Margenov, in: B. Hendrickson et. al. (eds.), Proceedings of the Ninth SIAM Conference on Parallel Processing for Scientific Computing, SIAM, Philadelphia, 1999, CD, files Marcin~1.pdf and Marcin~1.ps
244. "Parallel Performance of a 3D Elliptic Solver," with I. Lirkov and S. Margenov, in: L. Vulkov et. al. (eds.) Proceedings of Second Conference on Numerical Analysis and Applications, Springer Verlag, Berlin, 1998, 535-543
245. "Parallel Solution of 2D Elliptic PDE's on Silicon Graphics Supercomputers," with I. Lirkov, S. Margenov, in: Y. Pan et. al. (eds.), Proceedings of the 10th International Conference on Parallel and Distributed Computing and Systems, IASTED/ACTA Press, Anaheim, CA, 1998, 575-580

246. "A Shared Memory Parallel Implementation of Block-Circulant Preconditioners," with I. Lirkov, S. Margenov and R. Owens, in: M. Griebel et. al. (eds.), *Large Scale Scientific Computations of Engineering and Environmental Problems*, Vieweg, Wisbaden, 1998, 319-327
247. "Parallel Performance of a Direct Elliptic Solver," with H. Hope and S. Petrova, in: M. Griebel et. al. (eds.), *Large Scale Scientific Computations of Engineering and Environmental Problems*, Vieweg, Wisbaden, 1998, 310-318
248. "A New Stable Block Elimination Based Solver for Bordered Linear Systems," with P. Yalamov, in: M. Griebel et. al. (eds.), *Large Scale Scientific Computations of Engineering and Environmental Problems*, Vieweg, Wisbaden, 1998, 347-356
249. "Solving Block-Structured Matrix Problems on RISC-Based Supercomputers," with P. Yalamov and N. Mastorakis, in: P. Borne et. al. (eds.), *Computational Engineering in Systems Applications*, IMACS, 1998, 1141-1145
250. "Implementing Fast Matrix Multiplication," with M. Chapman, D.F. Dent and S. Park, *Proceedings of the 14th Annual Conference on Applied Mathematics*, University of Central Oklahoma, Edmond, OK, 1998, 90-96
251. "Efficient Computation of the Invariant Densities," with J. Ding and Z. Wang, *Proceedings of the 14th Annual Conference on Applied Mathematics*, University of Central Oklahoma, Edmond, OK, 1998, 126-131
252. "Parallelization of a Machine Design Program," with M. Duncan, M. Hossain and J. Pullen, *Proceedings of the 14th Annual Conference on Applied Mathematics*, University of Central Oklahoma, Edmond, OK, 1998, 118-125
253. "Performance Evaluation of Neural Networks Applied to the Pattern Recognition," with A. Fairchild, *Proceedings of the 14th Annual Conference on Applied Mathematics*, University of Central Oklahoma, Edmond, OK, 1998, 161-174
254. "Distributed Model Architecture for Real-Time Traffic Control Systems," with K. El-Sawi, *Proceedings of the 14th Annual Conference on Applied Mathematics*, University of Central Oklahoma, Edmond, OK, 1998, 155-160
255. "Solving Block-Structured Linear Systems on a Power Challenge 8000," with P. Yalamov, in: T. Philip (ed.), *Proceedings of the ISCA 10th International Conference: Computer Applications in Industry and Engineering*, ISCA Press, Raleigh, NC, 1997, 123-126
256. "Level 3 BLAS Based Library for Block Tridiagonal Matrices," with C. Cyphers, in: S. Elaydi, et. al. (eds.), *Advances in Difference Equations*, Gordon and Breach, Amsterdam, 1997, 491-498
257. "A Parallel Algorithm for Solving the Complex Symmetric Eigenproblem," with I. Bar-On, in: M. Heath et. al. (eds.), *Proceedings of the SIAM Conference on Parallel Processing for Scientific Computing*, <http://www.siam.org/catalog/mcc07/marcin.htm>, SIAM, Philadelphia, 1997
258. "High Performance Solution of Linear Systems Arising from Conforming Spectral Approximations for Non-Conforming Domain Decompositions," with A. Karageorghis, in: L. Vulkov et. al. (eds.), *Numerical Analysis and Its Applications*, Lecture Notes in Computer Science 1196, Springer-Verlag, Berlin, 1997, 373-379
259. "Comparing the Performance of Two Algorithms for Finding the i-th Statistic," with J. Light, *Proceedings of the 13th Annual Conference on Applied Mathematics*, University of Central Oklahoma, Edmond, OK, 1997, 153-161
260. "Recent Advances in the Parallel Solution to Almost Block Diagonal Systems," with P. Amodio, *ZAMM*, Vol. 76, S2, 1996, 1-4

261. "Parallel Solution of Linear Recurrence Systems," with P. Stpiczyński ZAMM, Vol. 76, S2, 1996, 5-8
262. "High Performance Solution to Structured Linear Systems," with C. Cyphers, in: E. Minchev (ed.), Invited Lectures and Short Communications Delivered at the 4th International Colloquium on Numerical Analysis, Impulse-M, Sofia, Bulgaria, 1996, 131-140
263. "High Performance Solution of Linear Systems Arising in Spectral Domain Decomposition Techniques," with C. Cyphers and A. Karageorghis, in: A. Dishlev (ed.) Invited Lectures and Short Communications Delivered at the Sixth International Colloquium on Differential Equations, Impulse-M, Sofia, Bulgaria, 203-212
264. "CS II: An Applied Software Engineering Project," with J. Zalewski, Journal of Computing in Small Colleges, Vol. 12, No. 2, 1996, 47-52
265. "Computer Literacy Across Curriculum," Journal of Computing in Small Colleges, Vol. 11, No. 7, 1996, 94-103
266. "Solving Linear Recurrence Systems on Parallel Computers," with P. Stpiczyński, in: R. Kalia and P. Vashishta (eds.), Toward Teraflop Computing and New Grand Challenge Applications Conference, Nova Science Publishers, Inc., New York, 1995, 379-384
267. "Parallel Algorithms for Finding Trigonometric Sums," with P. Stpiczyński, in: D. H. Bailey et. al. (eds.), Parallel Processing for Scientific Computing, SIAM, Philadelphia, PA, 1995, 291-292
268. "Parallel and Distributed Computing Education: a Software Engineering Approach," with J. Zalewski and R. Waśniowski, in: R. L. Ibrahim (ed.), Proceedings of the 8th CSEE'95 Conference, Springer-Verlag, Berlin, 1995, 187-204
269. "Should Computer Science Majors Know How to Write and Speak?" with J. Zalewski, Journal of Computing in Small Colleges, Vol. 10, No. 5, 1995, 142-151
270. "Computer Literacy/Competencies: Preparing Teachers for the Information Superhighway," with T. Mitchell and G. Duckett, Journal of Computing in Small Colleges, Vol. 10, No. 3, 1995, 1-5
271. "Solving Linear Recurrence Systems on the Cray Y-MP," with P. Stpiczyński, in: J. J. Dongarra and J. Waśniewski, (eds.), Parallel Scientific Computing, Lecture Notes in Computer Science, 879, Springer-Verlag, Berlin, 1994, 416-424, appears also in: Technical University of Denmark, Report UNIC-94-05
272. "Teaching Parallel Computing without a Separate Course," with J. Zalewski, in: C. H. Nevison (ed.), Proceedings of the Conference on Parallel Computing for Undergraduates, Colgate University, June, 1994, 18/1-19
273. "Introduction to Parallel Computing Education," with J. Zalewski, Journal of Computing in Small Colleges, Vol. 9, No. 5, 1994, 85-92
274. "Parallelization of a Godunov Type Method for the Solution of Systems of Conservation Laws," with K. Bridges and X. Li, in: R. F. Sincovec et. al. (eds.), Parallel Processing for Scientific Computing, SIAM, Philadelphia, PA, 1993, 31-34
275. "Incorporating High Performance Computers into Mathematics Curriculum," in: L. Lum (ed.), Proceedings of the Fifth Annual Conference on Technology in Collegiate Mathematics, Addison-Wesley, Reading, MA, 1993, 862-868
276. "Using Computers in Calculus Teaching," with D. Vidakovic, Journal of Computing in Small Colleges, Vol. 8, No. 5, 1993, 34-45

277. "Using Level 3 BLAS to Solve Almost Block Diagonal Systems," with I. Gladwell, in: J. J. Dongarra et. al. (eds.), *Parallel Processing for Scientific Computing*, SIAM, Philadelphia, 1992, 52-62, appears also as: SMU Report No. 90-4, 1990
278. "Teaching New Technologies: Developing a Computer Literacy Course for Prospective Teachers," with T. Mitchell, *Journal of Computing in Small Colleges*, Vol. 8, No. 3, 1992, 65-70, abridged version of this text appears in: E. Persson (ed.), *NetPower—Resource Guide to Online Services*, Fox Chapel Publishing, Lancaster, PA, 1993, xii-xiii
279. "Matrix Multiplication—a Very Simple Program With Some Interesting Implications," *Journal of Computing in Small Colleges*, Vol. 8., No. 2, 1992, 154-162
280. "Binary Search on a Linked List—a Research Project in Experimental Computer Science," with F. Khosraviyani and M. Wagaman, *Journal of Computing in Small Colleges*, Vol. 7, No. 5, 1992, 16-21
281. "An Overview of Computer Networks in Education: Using Networks in the Classroom," with T. Mitchell, *Journal of Computing in Small Colleges*, Vol. 7, No. 3, 1991, 27-33
282. "An Overview of Computer Networks in Education: Computer Networks and Network Services," with T. Mitchell, *Journal of Computing in Small Colleges*, Vol. 6., No. 5, 1991, 1-8, abridged version of this text appears in: *Journal of Reading*, Vol. 35, No. 3, 1991, 264-265

#### **Unrefereed Publications:**

1. "Introduction to Wireless Sensor Networks; Current Issues and Challenges," with P.K. Singh, in: P.K. Singh et.al. (eds.), *Handbook of Wireless Sensor Networks: Issues and Challenges in Current Scenario's*, *Advances in Intelligent Systems and Computing*, Vol. 1132, Springer, Cham, 2020, 3-12
2. "Agent-Oriented Computing for Distributed Systems and Networks," with M. Ganzha, *Journal of Network and Computer Applications*, Vol. 37, 2014, 45-46
3. "Interview," *Abakus*, University of Maribor, November, 2006, 16-17
4. "Integrating Parallel and Distributed Computing in Computer Science Curricula," *IEEE Distributed Systems Online*, vol. 7, no. 2, 2006, art. no. 0602-o2006
5. "IT Professional as a herd-loving animal," (in Polish), *Computerworld*, 35, September, 2005
6. "Road to Parallel Programming, part III – execution of vector programs," (in Polish) with P. Stpiczyński, *Gazeta IT*, 9(28), October, 2004, [www.gazeta-it.pl](http://www.gazeta-it.pl)
7. "Road to Parallel Programming, part II – vector computing," (in Polish) with P. Stpiczyński, *Gazeta IT*, 7(26), August, 2004, [www.gazeta-it.pl](http://www.gazeta-it.pl)
8. "Road to Parallel Programming part I," (in Polish) with P. Stpiczyński, *Gazeta IT*, 2(21), February, 2004, [www.gazeta-it.pl](http://www.gazeta-it.pl)
9. "From Supercomputers to Agents," *Pro Dialog*, 17, 2004, 59-64
10. "Parallel Computing – Why?," (in Polish) with P. Stpiczyński, *Gazeta IT*, 1(20), January, 2004, [www.gazeta-it.pl](http://www.gazeta-it.pl)
11. "Comparing Solvers for Large Systems of Nonlinear Algebraic Equations," with D. Dent and A. Kucaba-Piętal, in: M. Cobb et. al. (eds.), *Proceedings of the Second Southern Conference on Computing*, CD, 8-pages
12. "Dynamically Loaded Reasoning Models in Negotiating Agents," with C. Nistor, and G. Parakh, *Proceedings of the 3<sup>rd</sup> European E-COMM-LINE 2002 Conference*, Bucharest, Romania, 2002, 199-203

13. "The Role of a Psychologist in E-commerce Personalization," with C. Nistor, R. Oprea and G. Parakh, *Proceedings of the 3<sup>rd</sup> European E-COMM-LINE 2002 Conference*, Bucharest, Romania, 2002, 227-231
14. "Agent Not Only at Your Doors (II)," (in Polish) with V. Galant, *Gazeta Praca dla Informatyków*, 27, March, 2002
15. "Medium Structure Modeling on Parallel Computers," with V. Rozenberg and B. Digas, in: V. Maksimov et. al. (eds.), *Risk Management: Modeling and Computer Applications*, Proceedings of the IASA Workshop, IASA Press, Laxenburg, Austria, 2001, 71-83
16. "Comparative Studies on Software for Solution of Systems of Nonlinear Algebraic Equations," (in Polish) with D. Dent and A. Kucaba-Piętal, in: R. Tadeusiewicz et. al (eds.), *Proceedings of the 3rd Conference on Computer Methods and Systems in Scientific Research and Engineering Projects*, AGH Press, Kraków, Poland, 2001, Rp45-Rp50
17. "Changes are Coming. Supercomputers on Their Way to Business" (in Polish), in: *Proceedings of the UseRS2001 Conference*, Common Polska Press, Bytom, Poland, 2001, 3 pages
18. "WWWizytówka," (in Polish), with M. Kucaba-Piętal, *Gazeta Praca dla Informatyków*, 2, October, 2002
19. "Parallel Algorithms for Problems of Medium Structure Reconstruction," with B.V. Digas, A.V. Lander and E.L. Reznikov, in: I. I. Eremin et. al. (eds.) *Proceedings of the International Conference on Distributed Systems: Optimization and Economic-Environmental Applications (DSO'2000)*, Ekaterniburg, Russia, June, 2000, 293-294
20. "Comparing Performance of Neural Networks Recognizing Machine Generated Characters," with S. Bowers and J. Morrison, in: M. Paprzycki et. al. (eds.) *Proceedings of the First Southern Symposium on Computing*, University of Southern Mississippi, Hattiesburg, MS, 2000, CD, file Bowers-et.al.ps
21. "Testing Convergence of Nonlinear System Solvers," with D. Dent and A. Kucaba-Piętal, in: M. Paprzycki et. al. (eds.) *Proceedings of the First Southern Symposium on Computing*, University of Southern Mississippi, Hattiesburg, MS, 2000, CD, file Dent-et.al.ps
22. "Comparison of Performance of Ward Systems' Neural Networks Applied to a Multifont Recognition Problem," with R. Niess, L. Scardino and W. Douglas, in: *Proceedings of the 11th Annual CCSC South Central Conference*, CCSC Press, 2000, 240-250
23. "Performance of Recurrent Neural Networks Applied to a Simplified Pattern Recognition Problem," with L. Scardino, R. Niess and W. Douglas, in: *Proceedings of the 11th Annual CCSC South Central Conference*, CCSC Press, 2000, 251-258
24. "Performance of Jump Connection Neural Networks Applied to a Simplified Pattern Recognition Problem," with W. Douglas, R. Niess and L. Scardino, in: *Proceedings of the 11th Annual CCSC South Central Conference*, CCSC Press, 2000, 259-265
25. "Recent Advances in Solvers for Nonlinear Algebraic Equations," with A. Kucaba-Piętal and D. Dent, *Proceedings of the PCCMM Conference*, Rzeszów, Poland, 1999, 189-201
26. "Ada in Distributed Systems: An Overview," with J. Zalewski, *Ada Letters*, Vol. XVII, No. 2, 1997, 67-81
27. "Parallel Computing in Ada: An Overview and Critique," with J. Zalewski, *Ada Letters*, Vol. XVII, No. 2, 1997, 55-62
28. "The Design, Evaluation and Usage of Educational Software," with N. Caftori, in: J. Price et. al. (eds.), *Technology and Teacher Education Annual*, 1997, AACE, Charlottesville, VA, 1997, 23-27, appears also in: *CSS Journal; Computers in the Social Studies*, Vol. 5, No. 3, 1997

29. "Applying Spectral Algorithms to MinClique Scheduling Problems," with J. Józefowska, Technical Report RA-006/96, Technical University of Poznań, 1996
30. "Shaping the Focus of the Undergraduate CS Curriculum," with J. Zalewski, SigCSE Bulletin, Vol. 28, No. 3, 1996, 37-44
31. "Developing an Artificial Life Simulation Package," with A. Cheek and D. Bailey, Proceedings of the 12th Annual Conference on Applied Mathematics, University of Central Oklahoma, Edmond, OK, 1996, 51-62
32. "Studying the Effectiveness of Machine Code Generation," with J. Baker, Proceedings of the 12th Annual Conference on Applied Mathematics, University of Central Oklahoma, Edmond, OK, 1996, 63-76
33. "Studying Computer Awareness," with S. Ubermanowicz, in: B. Robin et. al. (eds.), Technology and Teacher Education Annual, 1996, AACE, Charlottesville, VA, 1996, 841-846
34. "Educational Software: Are We Approaching It the Right Way," with N. Caftori, in: B. Robin et. al. (eds.), Technology and Teacher Education Annual, 1996, AACE, Charlottesville, VA, 1996, 869-873
35. "Studying Performance of Sorting Algorithms," with J. Baker and D. Stacy, Proceedings of the 11th Annual Conference on Applied Mathematics, University of Central Oklahoma, Edmond, OK, 1995, 165-173
36. "Parallel and Distributed Real-Time Systems: Introduction to the Special Issue," with J. Zalewski, Informatica, Vol. 19, No. 2, 1995, 3-6
37. "Solving Block Bidiagonal Linear Systems on Distributed Memory Computers," with P. Amodio and T. Politi, Proceedings of the Seventh International ISCA Conference on Parallel and Distributed Computing Systems, ISCA Press, Raleigh, NC, 1994, 812-815
38. "Comparing Attitudes Toward Computers of Polish and American Prospective Teachers," with D. Vidakovic and S. Ubermanowicz, in: D. A. Willis et. al. (eds.), Technology and Teacher Education Annual, 1995, AACE, Charlottesville, VA, 1995, 45-48, abridged version of this text appears in: Computer on Campus; National Conference, University of South Carolina, 1994, 112-113
39. "Computer Literacy Courses—Do We Really Need Them?," Computer Literacy Digest, Vol. 1, No. 10, 1994
40. "Computer Literacy: a Global Perspective," with G. Duckett and T. Mitchell, in: G. H. Marks (ed.), Mathematics/Science Education and Technology—1994, AACE, Charlottesville, VA, 1994, 114-117
41. "Optimizing Performance of Basic Linear Algebraic Subroutines on DEC Computers," with C. Cyphers, Proceedings of the 10th Annual Conference on Applied Mathematics, University of Central Oklahoma, Edmond, OK, 1994, 162-172
42. "Using Computer Networks to Study Computer Literacy," with T. Mitchell and G. Duckett, in: J. Willis et. al. (eds.), Technology and Teacher Education Annual, 1994, AACE, Charlottesville, VA, 1993, 91-93, abridged version of this text appears in: Computer on Campus; National Conference, University of South Carolina, 1994, 74-75
43. "Prospective Teachers' Attitudes Toward Computers," with D. Vidakovic, in: J. Willis et. al. (eds.), Technology and Teacher Education Annual, 1994, AACE, Charlottesville, VA, 1994, 74-76
44. "Using BLAS in the Estimation of Nonlinear, Non-Gaussian State-Space Models," with P. Hodges and N. Irwin, Proceedings of the 9th Annual Conference on Applied Mathematics, University of Central Oklahoma, Edmond, OK, 1993, 332-342

45. "Using Technology in the Classroom: Today and Tomorrow," with T. Mitchell, in: D. Carey et. al. (eds.), *Technology and Teacher Education Annual*, 1993, AACE, Charlottesville, VA, 1993, 219-223, abridged version of this text appears in: *Computer Literacy Digest*, Vol. 1, No. 8, 1994
46. "A Level 3 BLAS Based Solver for Almost Block Diagonal Systems," with C. Cyphers, SMU Software Report No. 92-3, 1992, <http://www.netlib.org/linalg/l3abdsol>
47. "How Computer Networks Will Influence Education," with T. Mitchell, *Abstracts of the East-West Conference on Emerging Computer Technologies in Education*, Moscow, Russia, 1992, 140
48. "Teaching New Technologies," with T. Mitchell, *Abstracts of the East-West Conference on Emerging Computer Technologies in Education*, Moscow, Russia, 1992, 144-145
49. "Parallel Matrix Multiplication—Can We Learn Anything New?," *CHPC Newsletter*, Vol.7, No.4, 1992, 55-59
50. "Multiplying Matrices on the Cray—Practical Considerations," with C. Cyphers, *CHPC Newsletter*, Vol. 6, No. 6, 1991, 77-82
51. "Gaussian Elimination on Cray Y-MP," with C. Cyphers, *CHPC Newsletter*, Vol. 6, No. 4, 1991, 43-47

#### **Book Reviews:**

1. H. Attiya and J. Welch, *Distributed Computing; Fundamentals, Simulations and Advanced Topics*, McGraw-Hill, Berkshire, UK, 1998, *PDCP*, Vol. 4, No. 2, 2001, 225-226
2. J. Błażewicz, K. Ecker, B. Plateau, and D. Trystram (eds.), *Handbook on Parallel and Distributed Processing*, Springer-Verlag, Berlin, Germany, 2000; *PDCP*, Vol. 4, No. 1, 2001, 118-119
3. J. J. Dongarra, I. S. Duff, D. C. Sorensen, and H. A. van der Vorst, *Numerical Linear Algebra for High-Performance Computers*, SIAM, Philadelphia, PA, 1998; *IEEE Concurrency*, Vol. 8, No. 4, 2000, 92-93
4. L. D. Fosdick, E. R. Jessup, C. J. C. Schauble and G. Domik, *An Introduction to High-Performance Scientific Computing*, MIT Press, Cambridge, MA, 1996; *IEEE Concurrency*, Vol. 5, No. 3, 1997, 73-74
5. T. L. Casavant, P. Tvrđik and F. Plasil, *Parallel Computers; Theory and Practice*, IEEE Computer Society Press, Los Alamitos, CA, 1996; *IEEE Concurrency*, Vol. 5, No. 1, 1997, 81-82
6. G. C. Fox, R. D. Williams and P. C. Messina, *Parallel Computing Works!*, Morgan Kaufman, San Francisco, CA, 1994; *IEEE Parallel & Distributed Technology*, Vol. 4, No. 4, 1996, 82-83
7. D. Loshin, *High Performance Computing Demystified*, AP Professional, Boston, MA, 1994; *IEEE Parallel & Distributed Technology*, Vol. 4, No. 2, 1996, 84
8. T. Hey and J. Ferrante (eds.), *Portability and Performance for Parallel Processing*, John Wiley & Sons, Chichester, UK, 1994; *IEEE Parallel & Distributed Technology*, Vol. 3, No. 3, 1995, 72-73
9. G. Golub and J. M. Ortega, *Scientific Computing: An Introduction with Parallel Computing*, Academic Press, San Diego, CA, 1993; *IEEE Parallel & Distributed Technology*, Vol. 3, No. 2, 1995, 80
10. J. J. Dongarra and W. Gentsch, *Computer Benchmarks*, North-Holland, Amsterdam, Netherlands, 1993; *IEEE Parallel & Distributed Technology*, Vol. 3, No. 1, 1995, 89

11. R. M. Hord, *Parallel Supercomputing in MIMD Architectures*, CRC Press, Boca Raton, FL, 1993; *IEEE Parallel & Distributed Technology*, Vol. 2, No. 4, 1994, 94
12. K. Dowd, *High-Performance Computing: RISC Architectures, Optimization & Benchmarks*, O'Reilly & Associates, Sebastopol, CA, 1993; *IEEE Parallel & Distributed Technology*, Vol. 2, No. 3, 1994, 85
13. A. Gibbons and P. Spirakis (eds.), *Lectures on Parallel Computation*, Cambridge University Press, New York, NY, 1993; *IEEE Parallel & Distributed Technology*, Vol. 2, No. 2, 1994, 84

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### **Publications in Other Areas:**

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#### **Edited Volumes:**

1. *Social System, Rationality and Revolution*, edited with L. Nowak, Rodopi, Amsterdam, 1993

#### **Refereed Publications:**

1. "How revolutions take place?" (in Polish), with K. Paprzycka, in: K. Brzechczyn, et. al. (eds.), *Poznańskie Studia z Filozofii Humanistyki*, vol. 22, Wydawnictwo Naukowe Wydziału Nauk Społecznych, Poznań, 2013, 77-84
2. "Accuracy and Relevance" (in Polish), with K. Paprzycka, in: R. Egiert, A. Klawiter, P. Przybysz (eds.), *Oblicza Idealizacji, Poznańskie Studia z Filozofii Humanistyki*, 2(15), 1996, 211-220
3. "Some Remarks on the Notion of Essentiality," (in Polish), with K. Paprzycka, in: J. Brzeziński and K. Lastowski (eds.), *Philosophical Categories and the Cognitive Status of Science*, Wydawnictwo Naukowe UAM, Poznań, Poland, 1994, 203-211
4. "The Non-Christian Model of Man: Toward a Psychoanalytical Explanation," in: L. Nowak and M. Paprzycki (eds.), *Social System, Rationality and Revolution*, Rodopi, Amsterdam, 1993, 205-213
  - a. appears also in Polish in: K. Brzechczyn, et. al. (eds.), *Poznańskie Studia z Filozofii Humanistyki*, vol. 22, Wydawnictwo Naukowe Wydziału Nauk Społecznych, Poznań, 2013, 67-75
5. "How Do Enslaved People Make Revolutions," with K. Paprzycka, in: L. Nowak and M. Paprzycki (eds.), *Social System, Rationality and Revolution*, Rodopi, Amsterdam, 1993, 251-263
6. "On Multilinearity of Socialism," with L. Nowak and K. Paprzycka, in: L. Nowak and M. Paprzycki (eds.), *Social System, Rationality and Revolution*, Rodopi, Amsterdam, 1993, 355-370
  - a. appears also in Polish in: K. Brzechczyn, et. al. (eds.), *Poznańskie Studia z Filozofii Humanistyki*, vol. 22, Wydawnictwo Naukowe Wydziału Nauk Społecznych, Poznań, 2013, 113-129
7. "A Note on the Unitarian Explication of Idealization," with K. Paprzycka, in: J. Brzeziński and L. Nowak (eds.), *Idealization III: Approximation and Truth*, Rodopi, Amsterdam, 1992, 279-281
8. "Accuracy, Essentiality and Idealization," with K. Paprzycka, in: J. Brzeziński and L. Nowak (eds.), *Idealization III: Approximation and Truth*, Rodopi, Amsterdam, 1992, 255-265

#### **Unrefereed Publications:**

1. "Not too much compromise" (in Polish), *Zdanie*, No. 11/12, Kraków 1989

## To Appear:

1. “Is Year 1984 Possible?,” with K. Paprzycka, in the *Proceedings from the Conference in Honor of L. Nowak’s U Podstaw Socjalizmu*

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## Elected Positions and Senior Positions:

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- Senior Member, ACM, since June 2009
- Senior Member, IEEE Computer Society, since September 2005
- Member of the Board, Polish Information Processing Society, 2020 – present
- Member of the Steering Committee of the Stowarzyszenie Alumni, 2008 – present
- Member of the Management Committee and Science Communication Manager, EU COST Action 18231, Multi3Generation: Multi-task, Multilingual, Multi-modal Language Generation, 2019 – present
- Vice-Chair, IEEE Poland Section, December 2019 – December 2021
- Chair, Poland Section IEEE Computer Society Chapter C-16, 2015 – August 2020
- Chair, Mazovia Chapter of the Polish Information Processing Society, 2014 – 2020
- Member of the Management Committee, EU COST Action 1404, Multi-Paradigm Modelling for Cyber-Physical Systems (MPM4CPS), 2015 – 2018
- Member of the Board of the Polish Information Processing Society, 2008 – 2014
- Vice-Chair, Poland Section IEEE Computer Society Chapter C-16, 2008 – 2015
- Member of the Management Committee, EU COST Action 0801, Agreement Technologies, 2010-2012
- IEEE Computer Society Distinguished Visitor, 2006 – 2008
- Co-chair, IEEE Technical Committee on Scalable Computing, June 2004 – October 2005
- Chair, IEEE Technical Committee on Supercomputing Applications, September 2002 – June 2004

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## Editorial Boards:

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- *Scalable Computing: Practice and Experience*, 2005 – present (Editor-in-Chief 2005-2008; member of the Steering Committee 2008 – present)
- *Global Journal of Novel Research in Applied Sciences (NRAS)* – 2023 – present
- *Recent Advances in Computer Science & Technology (RACSAT)*, 2023 – present
- *Journal of Artificial Intelligence, Machine Learning and Data Science*, 2023 – present
- *Proceedings: Engineering*, 2022 – present
- *Oriental Journal of Computer Science and Technology*, 2020 – present
- *System Theory, Control and Computing Journal*, 2020 – present
- *Journal of Computer Science and Cybernetics*, 2019 – present
- *Natural Language Processing Research*, 2019 – present
- *Big Data Mining and Analytics*, 2019 – present
- *Computer Science and Information Systems*, 2017 – present
- *Information Technology and Control*, 2015 – present
- *Radio Electronics, Computer Science, Control*, 2015 – present
- *International Journal of Big Data Intelligence, Associate Editor*, 2013 – present
- *Annals of Computer Science and Information Systems*, co-Editor, 2013 – present

- *IADIS International Journal on Computer Science and Information Systems*, co-Editor, 2006 – present
- *International Journal of Autonomic Computing*, 2008 – present
- *Informatica. An International Journal of Computing and Informatics*, 1993 – present
- *International Journal of Intelligent Information and Database Systems*, 2006 – present
- *Carpathian Journal of Mathematics*, 2003 – present
- *Studies and Materials in Applied Computer Science*, 2009 – present
- *Technical Transactions, series Computer Science and Information Systems*, 2014 – present
- *Complex Adaptive Systems Modeling*, 2012 – 2020
- *IEEE Computing Now Web Portal*, 2009 – 2015
- *International Journal of Computer Science & Applications*, 2003 – 2013
- *Egyptian Computer Science Journal*, 2003 – 2013
- *International Journal on Information and Communication Technologies*, 2008 – 2013
- *International Journal of Computer Information Systems and Industrial Management Applications*, 2009 – 2013
- *International Journal of Agent Technologies and Systems*, 2010 – 2013
- *Computing, Multimedia and Intelligent Techniques*, 2005 – 2013
- *Gazeta IT (in Polish)*, Editor-in-Chief, 2002 – 2012
- *IEEE Distributed Systems Online*, 2000 – 2008
- *Poznań Studies in the Philosophy of the Sciences and the Humanities*, 1997 – 2008
- *Informatyka Teoretyczna i Stosowana (in Polish)*, 2003 – 2007
- *ADVANCES IN COMPUTATION; Theory and Practice*, Managing Editor, 1998 – 2005
- *International Journal of Computer Research*, co-Editor, 2001 – 2004
- *Parallel and Distributed Computing Practices*, Editor-in-Chief, 1997 – 2004
- *Buletinul Științific al Universității din Baia Mare*, 1997 – 2002
- *Gazeta Praca dla Informatyków (in Polish)*, Editor-in-Chief, 2000 – 2002
- *International Journal of Parallel and Distributed Systems and Networks*, 1998 – 2002
- *IEEE Concurrency*, 1995 – 2000

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### **Conference Related Activities:**

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1. Member of the Program Committee, 7<sup>th</sup> IEEE Congress on Information Science & Technology 2023, Agadir, Morocco, December, 2023
2. Member of the Program Committee, The 7<sup>th</sup> International Conference on Computer Science and Application Engineering (CSAE2023), Wuhan, China, October, 2023
3. Member of the Program Committee, 2023 7<sup>th</sup> International Symposium on Computer Science and Intelligent Control (ISCSIC), Beijing, China, October, 2023
4. Member of the Program Committee, 15<sup>th</sup> International Conference on Computational Collective Intelligence (ICCCI 2023), Budapest, Hungary, September, 2023
5. Member of the Program Committee, International Conference on Evolutionary Artificial Intelligence (ICEAI 2023), Kuala Lumpur, Malaysia, september, 2023
6. Member of the Program Committee, 2023 International Conference on INovations in Intelligent SysTems and Applications (INISTA'23), Hammamet, Tunisia, September, 2023
7. Member of the Program Committee, 27<sup>th</sup> International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, Athens, Greece, September, 2023

8. Member of the Steering Committee, 16<sup>th</sup> International Symposium on Intelligent Distributed Computing (IDC'2023), Hamburg, Germany, September, 2023
9. Member of the Program Committee, 4<sup>th</sup> International Conference on Information Technology, Advanced Mechanical and Electrical Engineering (ICITAMEE), Yogyakarta, Indonesia, August, 2023
10. Member of the Program Committee, 3<sup>rd</sup> Power System and Green Energy Conference (PSGEC 2023), Shanghai, China, August, 2023
11. Member of the Program Committee, 23<sup>rd</sup> IEEE International Conference on Scalable Computing and Communications (ScalCom-2023), Portsmouth, UK, August, 2023
12. Member of the Program Committee, International Conference on Computational Science (ICCS 2023), Prague, Czech Republic, July, 2023
13. Member of the Program Committee, 2023 Euro-Asia Conference on Frontiers of Computer Science and Information Technology (FCSIT), Chengdu, China, July, 2023
14. Member of the Program Committee, 2023 International Conference on Communications, Computing and Artificial Intelligence (CCCAI 2023), Shanghai, China, June, 2023
15. Member of the Program Committee, 2023 International Conference on Advances in Computing Research (ACR'23), Orlando, FL, May, 2023
16. Member of the Program Committee, 9<sup>th</sup> International Conference on Control, Decision and Information Technologies (CODIT), Rome, Italy, May, 2023
17. Member of the Program Committee, 4<sup>th</sup> International Conference on Computing, Networks and Internet of Things (CNIOT 2023), Xiamen, China, May, 2023
18. Publicity Chair, 2023 5<sup>th</sup> International Conference on Advances in Computer Technology, Information Science and Communications (CTISC 2023), Suzhou, China, April, 2023
19. Member of the Program Committee, 2023 International Conference on Mathematics, Computation and Modeling (CMCM 2023), Hangzhou, China, March, 2023
20. Member of the Program Committee, 9<sup>th</sup> International Conference on Advanced Computing and Communication Systems (ICACCS 2023), Coimbatore, India, March, 2023
21. Member of the Program Committee, 3<sup>rd</sup> International Conference on "Emerging Trends and Technologies on Intelligent Systems" (ETTIS-2023), Noida, India, February, 2023
22. Member of the Program Committee, The 14<sup>th</sup> International Conference on Computer Science and its Applications (CSA 2022), December, 2022, Vientiane, Laos
23. Member of the Program Committee, International Conference on Intelligent Computing and Next Generation Networks (ICNGN'2022), Hangzhou, China, December, 2022
24. Member of the Program Committee, International Conference on Adaptive Computational Intelligence (ICACI-2022), Mysuru, India, December, 2022
25. General Chair, International Conference on Smart Technology, Systems and Computing (ICSTSC 2022), New Delhi, India, December, 2022
26. Member of the Program Committee, International Conference on Analytics and Learning in Computational Systems (ICALCS-2022), Mysuru, India, December, 2022
27. Member of the Program Committee, 5<sup>th</sup> International Conference on Algorithms, Computing and Artificial Intelligence (ACAI), Syan, China, December, 2022
28. Member of the Program Committee, 23<sup>rd</sup> International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2022), Sendai, Japan, December, 2022
29. Member of the Program Committee, 10<sup>th</sup> Machine Intelligence and Digital Interaction (MIDI 2022), Warsaw, Poland, December, 2022, Virtual Conference

30. Member of the Program Committee, 4<sup>th</sup> International Conference on Computer, Software Engineering and Applications (CSEA 2022), Shanghai, China, December, 2022
31. Member of the Program Committee, 3<sup>rd</sup> Asia Conference on Computers and Communications (ACCC 2022), Shanghai, China, December, 2022
32. Member of the Program Committee, 13<sup>th</sup> Workshop on Applications for Multi-Core Architectures (WAMCA 2022), Bordeaux, France, November, 2022
33. Member of the Program Committee, Sixteenth International Conference on Advanced Engineering Computing and Applications in Sciences (ADVCOMP 2022), Valencia, Spain, November, 2022
34. Member of the Program Committee, 6<sup>th</sup> International Symposium on Computer Science and Intelligent Controls (ISCSIC 2022), Beijing, China, November, 2022
35. Member of the Program Committee, 2022 2nd International Conference on Electronic and Electrical Engineering and Intelligent System (ICE3IS), Yogyakarta, Indonesia, November, 2022
36. Special Session Chair, IEEE World Forum on the Internet of Things, Yokohama, Japan, October-November, 2022
37. Member of the Program Committee, 26<sup>th</sup> International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, October, 2022
38. Member of Program Board, Forum of Teleinformatics, Miedzeszyn, Poland, October, 2022
39. Member of Program Committee, 5<sup>th</sup> International Conference on Smart Systems and Technologies (SST 2022), Osijek, Croatia, October, 2022
40. Member of the Program Committee, International Conference on Machine Intelligence and Data Science Applications (MIDAS-2022), University of Versailles, France, October, 2022
41. Member of the Program Committee, 3<sup>rd</sup> Asia Education Technology Symposium (AETS), Fukuoka, Japan, September, 2022
42. Member of the Program Committee, 14<sup>th</sup> International Conference on Parallel Processing and Applied Mathematics (PPAM 2022), Gdańsk, Poland, September, 2022
43. Member of the Steering Committee, 15<sup>th</sup> International Symposium on Intelligent Distributed Computing (IDC'2022), Online Conference, September, 2022
44. Member of the Program Committee, 19<sup>th</sup> International Conference on Artificial Intelligence: Methodology, Systems, Applications (AIMSA 2022), Varna, Bulgaria, September, 2022
45. Member of the Program Committee, 17<sup>th</sup> International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2022), Salamanca, Spain, September, 2022
46. Member of the Program Committee, International Conference on Emerging Computing (ICEC 2022), SRM University, India, September, 2022
47. Member of the Program Committee, 26<sup>th</sup> International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, Verona, Italy, September, 2022
48. Member of the Program Committee, 14<sup>th</sup> International Conference on Computational Collective Intelligence (ICCCI 2022), Hammamet, Tunisia, September, 2022
49. Co-Chair, 17<sup>th</sup> Conference on Computer Science and Intelligence Systems (FedCSIS'2022), Sofia, Bulgaria, September, 2021, Hybrid Conference
50. General Chair, 7<sup>th</sup> International Symposium on Intelligent Informatics (ISI'22), Trivandrum, India, August - September, 2022
51. Member of the Program Committee, DEXA 2022, Vienna, Austria, August, 2022

52. Member of the Program Committee, 2022 International Conference on INovations in Intelligent SysTems and Applications (INISTA'22), Biarritz, France, August, 2022
53. Member of the Program Committee, International Conference on Connected Systems & Intelligence (CSI'22), Trivandrum, India, August, 2022
54. Member of the Program Committee, 7<sup>th</sup> International Symposium on Intelligent Informatics (ISI-2022), Trivandrum, Kerala, India, August, 2022
55. Member of the Program Committee, 2022 International Conference on INovations in Intelligent SysTems and Applications (INISTA'22), Biarritz, France, August, 2022
56. Member of the Program Committee, 2<sup>nd</sup> Power System and Green Energy Conference (PSGEC 2022), Shanghai, China, August, 2022
57. Member of the Program Committee, 16<sup>th</sup> IEEE International Symposium on Service Oriented System Engineering (SOSE-2022), August, 2022, Virtual Conference
58. Member of the Program Committee, 3<sup>rd</sup> International Conference on Intelligent Computing, Automation and Applications (ICAA2022), Hangzhou, Zhejiang, China, July, 2022
59. Member of the Program Committee, 3<sup>rd</sup> International Conference on Natural Language Processing & Computational Linguistics (NLPCL 2022), London, July, 2022
60. Member of the Program Committee, 3<sup>rd</sup> International Conference on Information Technology, Advanced Mechanical and Electrical Engineering (ICITAMEE), Yogyakarta, Indonesia, July, 2022
61. Member of the Program Committee, 2<sup>nd</sup> International Conference on Image, Vision and Intelligent Systems (ICIVIS), Jian, China, July, 2022
62. Member of the Program Committee, IEEE 9<sup>th</sup> International Conference on Communications and Electronics (ICCE), Nha Trang, Vietnam, July, 2022
63. Program Committee co-Chair, 7<sup>th</sup> International Conference on Intelligent Computing and Communication Technology (ICICCT-2019), Online, July, 2022
64. Member of the Program Committee, 2022 Euro-Asia Conference on Frontiers of Computer Science and Information Technology (FCSIT), Virtual Conference, December, 2022
65. Member of the Program Committee, 11<sup>th</sup> International Conference on Advanced Computer Science and Information Technology (ICAIT 2022), Toronto, Canada, July, 2022
66. Member of the Program Committee, 14<sup>th</sup> Asian Conference on Intelligent Information and Database Systems (ACIIDS 2022), Almaty, Kazakhstan, June, 2022
67. Member of the Program Committee, International Conference on Computational Science (ICCS 2022), London, UK, June, 2022
68. Member of the Program Committee, 21<sup>th</sup> International Symposium on Parallel and Distributed Computing (ISPDC'22), Basel, Switzerland, July, 2022
69. Member of the Program Committee, 36<sup>th</sup> International ECMS Conference on Modelling and Simulation, Alesund, Norway, May-June, 2022
70. Member of the Program Committee, 2022 IEEE IAS Global Conference on Emerging Technologies (GlobConET), Greater Noida, India, May, 2022
71. Member of the Program Committee, 3<sup>rd</sup> International Conference on Computing, Networks and Internet of Things (CNIOT 2022), Qingdao, China, May, 2022
72. Member of the Program Committee, 8<sup>th</sup> International Conference on Control, Decision and Information Technologies (CODIT), Istanbul, Turkey, May, 2022
73. Member of the Program Committee, 19<sup>th</sup> International Conference for Informatics and Information Technologies (CIIT 2022), Hybrid Conference, May, 2022

74. Member of the Program Committee, The Eleventh International Conference on Intelligent Systems and Applications (INTELLI 2022), Venice, Italy, May, 2022
75. Member of the Program Committee, The International Conference on Emerging Trends in Artificial Intelligence and Smart Systems (Theetas-2022), Virtula Conference, Apri, 2022
76. Member of the Program Committee, 8<sup>th</sup> International Conference on Computer Science, Information Technology (CSITEC 2022), Copenhagen, Denmark, April, 2022
77. Member of the Program Committee, International Conference on Recent Trends in Data Science and Informatics (ICRTDSI-2022), Ghaziabad, India, April, 2022, Virtual Conference
78. Member of the Program Committee, 3<sup>rd</sup> International Conference ICT for Digital, Smart, and Sustainable Development, (ICIDSSD '2022), Delhi, India, March, 2022
79. Member of the Program Committee, 3<sup>rd</sup> International Conference on Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy (MMCITRE2022), Sydney, Australia, March, 2022
80. Member of the Program Committee, 8<sup>th</sup> International Conference on Networks & Communications (NCOM 2022), Sydney, Australia, March, 2022
81. Member of the Program Committee, 11<sup>th</sup> International Conference on Cloud Computing: Services and Architecture (CLOUD 2022), Sydney, Australia, March, 2022
82. Conference Chair, The International Conference on the Role of ICT in Management and Business: Practices, Trends and Prospects (ICRIMB-2022), Delhi, India, March, 2022
83. Member of the Program Committee, 8<sup>th</sup> International Conference on Signal and Image Processing (SIPRO 2022), Sydney, Australia, March, 2022
84. Member of the Program Committee, International Conference on Automation and Engineering (AUEN 2022), March, 2022, Virtual Conference
85. Member of the Program Committee, 2022 International Conference on Advanced Computing and Communication Systems (ICACCS), Coimbatore, India, March, 2022
86. Member of the Program Committee, International Conference on Intelligent Computing and Networking (IC-ICN-2022), Mumbai, India, February, 2022
87. Honorary General Chair, International Conference on Artificial Intelligence and High Performance Computing (AIHPC 2022), Hyderabad, India, January, 2022
88. Member of the Program Committee, 6<sup>th</sup> International Conference on Signal, Image Processing (SIPO 2022) to be held in Copenhagen, Denmark on January 29~30, 2022
89. Member of the Program Committee, 6<sup>th</sup> International Conference on Networks and Communications (NET 2022), Copenhagen, Denmark, January, 2022
90. Member of the Program Committee, 6<sup>th</sup> International Conference on Signal, Image Processing (SIPO 2022), Copenhagen, Denmark, January, 2022
91. Member of the Program Committee, 3<sup>rd</sup> International Conference on Machine Learning and Soft Computing (MLSC 2022), Zurich, Switzerland, January, 2022
92. Member of the Program Committee, International Conference on Computational Science and Application (CSA 2022), Changsha, China, January, 2022
93. Member of the Program Committee, 2<sup>nd</sup> International Conference on NLP Trends & Technologies (NLPTT 2021), Sydney, Australia, December, 2021
94. Member of the Program Committee, 3<sup>rd</sup> International Conference on Computer Science, Communication and Network Security (CSCNS2021), Sanya, China, December, 2021, Virtual Conference

95. Member of Steering Committee, 6<sup>th</sup> IEEE International Conference on Recent Advances and Innovations in Engineering (ICRAIE), Virtual Conference, December, 2021
96. Member of the Program Committee, First International Conference on Information and Communication Technology, Sikkim, India, December, 2021, Virtual Conference
97. Member of the Program Committee, 8<sup>th</sup> NAFOSTED Conference on Information and Computer Science (NICS), Hanoi, Vietnam, December, 2021
98. Member of Program Committee, 7<sup>th</sup> EAI International Conference on IoT as a Service, Sydney, Australia, December, 2021, Virtual Conference
99. Member of the Program Committee, 3<sup>rd</sup> International Conference on applications of AI and Machine Learning (ICAML 2021), Patiala, India, December, 2021
100. Member of the Program Committee, Fourth International Conference; Futuristic Trends in Network and Communication Technologies (FTNCT), Ahmedabad, India, December, 2021, Virtual Conference
101. Member of the Program Committee, 2021 Euro-Asia Conference on Frontiers of Computer Science and Information Technology (FCSIT), Virtual Conference, December, 2021
102. Member of the Program Committee, 20<sup>th</sup> International Conference on Computer and Information Technology (CIT-2021), Virtual Conference, December, 2021
103. Member of the Program Committee, 20<sup>th</sup> International Conference on Ubiquitous Computing and Communications (IUCC-2021), Virtual Conference, December, 2021
104. Member of the Program Committee, 23<sup>rd</sup> IEEE International Conference on High Performance Computing and Communications (HPCC), Haikou, China, December, 2021
105. Member of the Program Committee, 9<sup>th</sup> Machine Intelligence and Digital Interaction (MIDI 2021), Warsaw, Poland, December, 2021, Virtual Conference
106. Member of the Program Committee, Sustainable Technology and Advanced Computing In Electrical Engineering (ICSTACE), Surat, India, November, 2021, Virtual Conference
107. Member of the Program Committee, International Conference on Artificial Intelligence and Speech Technology (AIST2021), Delhi, India, November, 2021, Virtual Conference
108. Member of the Program Committee, 12<sup>th</sup> International Conference on Communications Security & Information Assurance (CSIA 2021), Zurich, Switzerland, November, 2021
109. Member of the Program Committee, 4<sup>th</sup> International Conference on Computing and Big Data (ICCBD 2021), Wuhan, China, November, 2021, Virtual Conference
110. Member of the Program Committee, International Conference on Recent Trends in Advanced Computing (ICRTAC 2021), Chennai, India, November, 2021, Virtual Conference
111. Member of the Program Committee, 13<sup>th</sup> International Conference on Knowledge and Systems Engineering (KSE'21), Bangkok, Thailand, November, 2021
112. Member of the Program Committee, International Conference on Intelligent Computing and Networking (IC-ICN-2021), Mumbai, India, November, 2021
113. Member of the Program Committee, 11<sup>th</sup> International Conference on Digital Image Processing and Pattern Recognition (DPPR 2021), Dubai, UAE, November, 2021
114. Member of the Program Committee, Fourteenth International Conference on Advanced Engineering Computing and Applications in Sciences (ADVCOMP 2021), Barcelona, Spain, October, 2021
115. Member of the Program Committee, 1<sup>st</sup> International Conference on Innovations in Signal Processing and Embedded systems (ICISPES-2021), Hyderabad, India, October, 2021
116. Member of Program Board, Forum of Teleinformatics, Miedzeszyn, Poland, October, 2021

117. Member of the Program Committee, 25<sup>th</sup> International Conference on System Theory, Control and Computing (ICSTCC), Iasi, Romania, October, 2021
118. Member of the Program Committee, 12<sup>th</sup> Workshop on Applications for Multi-Core Architectures, Belo Horizonte, Brasil, October, 2021
119. Member of the Program Committee, 21<sup>th</sup> IEEE International Conference on Scalable Computing and Communications (ScalCom-2021), Atlanta, USA, December, 2021
120. Member of the Program Committee, 5<sup>th</sup> International Conference on Information Systems & Computer Networks (ISCON-2021), Mathura, India, October, 2021
121. Member of the Program Committee, Parallel Computing Technologies (PaCT-2021) 16<sup>th</sup> International Conference, Kaliningrad, Russia, October, 2021
122. Member of the Steering Committee, 14<sup>th</sup> International Symposium on Intelligent Distributed Computing (IDC'2021), Scilla, Italy, September, 2021
123. Member of the Program Committee, 2<sup>nd</sup> International Conference on Machine Learning Techniques and NLP (MLNLP 2021), Copenhagen, Denmark, September, 2021
124. Member of the Program Committee, 16<sup>th</sup> International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2021), Bilbao, Spain, September, 2021
125. Member of the Program Committee, 13<sup>th</sup> International Conference on Computational Collective Intelligence (ICCCI 2021), Rhodes, Greece, September, 2021
126. Member of the Program Committee, 25<sup>th</sup> International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, Szczecin, Poland, September, 2021
127. Co-Chair, 16<sup>th</sup> Conference on Computer Science and Intelligence Systems (FedCSIS'2021), Sofia, Bulgaria, September, 2021, Virtual Conference
128. Member of the Program Committee, 13<sup>th</sup> International Conference ICT Innovations 2021, Virtual Conference, September, 2021
129. Member of the Program Committee, The 19<sup>th</sup> International Conference on Artificial Intelligence: Methodology, Systems, Applications (AIMSA 2021), Varna, Bulgaria, September, 2021
130. Member of the Program Committee, 2021 International Conference on INovations in Intelligent SysTems and Applications (INISTA'21), Kocaeli, Turkey, August, 2021
131. Member of the Program Committee, DEXA 2021, Vienna, Austria, August, 2021
132. Member of the Program Committee, International Conference on NLP & Text Mining (NLTM 2021), Dubai, UAE, August, 2021
133. Member of the Program Committee, 15<sup>th</sup> IEEE International Symposium on Service Oriented System Engineering (SOSE-2021), Oxford, UK, August, 2021, Virtual Conference
134. Member of the Program Committee, The Tenth International Conference on Intelligent Systems and Applications (INTELLI 2021), Nice, France, July, 2021
135. Member of the Program Committee, 20<sup>th</sup> International Symposium on Parallel and Distributed Computing (ISPDC'21), Cluj Napoca, Romania, June, 2021
136. Local Co-Chair and Registration Chair, IEEE Congress on Evolutionary Computation, Kraków, Poland, June 2021, Virtual Conference
137. Member of the Program Committee, International Workshop on Renewable Energy (IWORE 2021), Oslo, Norway, June, 2021
138. Member of Program Committee, International Conference on Computational Electronics for Wireless Communications (ICCWC-2021), Kurukshehra, India, June, 2021

139. Member of the Program Committee, International Conference on Computational Science (ICCS 2021), Kraków, Poland, June, 2021
140. Local Co-Chair and Registration Chair, IEEE Congress on Evolutionary Computing, Kraków, Poland, June, 2021
141. Member of the Program Committee, 22<sup>nd</sup> International Conference on Advanced Computer Systems (ACS 2021), Budgoszcz, Poland, June, 2021
142. Member of the Program Committee, 2021 Power System and Green Energy Conference (PSGEC 2021), Shanghai, China, May, 2021
143. Member of the Program Committee, 4<sup>th</sup> International Conference on Recent Innovations in Computing (ICRIC-2021), Jammu, India, May, 2021
144. Member of the Program Committee, 18<sup>th</sup> International Conference for Informatics and Information Technologies (CIIT 2021), Virtual Conference, May, 2021
145. Member of the Program Committee, 13<sup>th</sup> Asian Conference on Intelligent Information and Database Systems (ACIIDS 2021), Phuket, Thailand, March, 2021
146. Member of the Program Committee, 2<sup>nd</sup> International Conference on Artificial Intelligence: Advances and Applications (ICAIAA-2021), Jaipur, India, March, 2021
147. Member of the Program Committee, 3<sup>rd</sup> International Conference on Smart Systems: Innovations in Computing (SSIC 2021), Jaipur, India, January, 2021
148. Member of the Program Committee, Special Session on High Performance Computing and Modeling & Simulation Education (HPC-Ed 2020), Barcelona, Spain, January, 2021
149. Member of the Program Committee, 18<sup>th</sup> IEEE International Symposium on Parallel and Distributed Processing with Applications (ISPA), Exeter, UK, December, 2020
150. Member of the Program Committee, International Conference on Interdisciplinary Cyber-Physical Systems 2020, Madras, India, December, 2020
151. Member of the Program Committee, 8<sup>th</sup> Machine Intelligence and Digital Interaction (MIDI 2020), Warsaw, Poland, December, 2020
152. Member of the Program Committee, 10<sup>th</sup> IEEE International Conference on Sustainable Computing and Communications (SustainCom), Exeter, UK, December, 2020
153. Member of the Program Committee, 2<sup>nd</sup> International Conference On Machine Learning, Advances in Computing, Renewable Energy and Communication (MARC2020), Ghaziabad, India, December, 2020
154. Member of the Program Committee, International Conference on Robotics and Artificial Intelligence 2020, Madras, India, December, 2020
155. Member of the Program Committee, 20<sup>th</sup> IEEE International Conference on Scalable Computing and Communications (ScalCom-2020), Melbourne, Australia, December, 2020
156. Member of the Program Committee, International E-conference on Data Analytics, Intelligent Systems and Information Security (ICDIIS '20), Pollachi, India, December, 2020
157. Member of the Program Committee, IEEE 6th International IEEE Congress on Information Science and Technology (CiSt'20), Agadir, Morocco, December, 2020
158. Member of the Program Committee, Academia-Industry Consortium for Data Science (AICDS-2020), Wenzhou, China, December, 2020
159. Member of the Program Committee, 22<sup>nd</sup> IEEE International Conference on High Performance Computing and Communications (HPCC), Fiji, December, 2020
160. Member of the Program Committee, 2<sup>nd</sup> Euro-Asia Conference on Frontiers of Computer Science and Information Technology (FCSIT), Bangkok, Thailand, December, 2020

161. Member of the Program Committee, 8<sup>th</sup> Machine Intelligence and Digital Interaction – MIDI Conference, Warsaw, Poland, November, 2020
162. Member of the Program Committee, 2020 Workshop on Communication Networks and Power Systems, Brasilia, Brazil, November, 2020
163. Member of the Program Committee, 12<sup>th</sup> International Conference on Knowledge and Systems Engineering (KSE'20), Can Tho, Vietnam, November, 2020
164. 2020 Workshop on Communication Networks and Power, 4<sup>th</sup> International Conference on Advances in Engineering (AE 2020), Dubai, UAE, November, 2020
165. Member of the Program Committee, 24<sup>th</sup> International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, October, 2020
166. Member of Program Board, Forum of Teleinformatics, Miedzeszyn, Poland, October, 2020
167. Member of the Program Committee, International Conference on Applied Soft Computing and Communication Networks (ACN'20), Chennai, India, October, 2020
168. Member of the Program Committee, 12<sup>th</sup> International Conference ICT Innovations 2020, Skopje, Northern Macedonia, October, 2020
169. General Chair, International Symposium on Intelligent Systems Technologies and Applications (ISTA'20), Chennai, India, October, 2020
170. Member of the Program Committee, 2021 International Conference on Advanced Technologies for Communications (ATC), Ho Chi Minh City, Vietnam, October, 2021
171. Member of the Program Committee, Fourth International Conference on Computing and Network Communications (CoCoNet'20), Chennai, India, October, 2020
172. Member of the Program Committee, Third International Conference; Futuristic Trends in Network and Communication Technologies (FTNCT), Rostov, Russia, October, 2020
173. Member of Program Committee, International Conference on Smart Systems and Technologies (SST 2020), Osijek, Croatia, October, 2020
174. Workshop Chair, International Conference on Pervasive Computing Advances and Applications (PerCAA-2020), Jaipur, India, October, 2020
175. Member of the Program Committee, 26<sup>th</sup> International Conference on Information and Software Technologies (ICIST 2020), Kaunas, Lithuania, October, 2020
176. Member of the Program Committee, 19<sup>th</sup> International Conference on Practical Applications of Agents and Multi-Agent Systems, Salamanca, Spain, October, 2021
177. Member of the Program Committee, 9<sup>th</sup> International Workshop on Multi-agent Based Applications for Smart Grids and Sustainable Energy Systems (MASGES 2021), Salamanca, Spain, October, 2021
178. Member of the Program Committee, 24<sup>th</sup> International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, Verona, Italy, September, 2020
179. Co-Chair, 15<sup>th</sup> Conference on Computer Science and Information Systems (FedCSIS'2020), Sofia, Bulgaria, September, 2020
180. Member of the Program Committee, Thirteenth International Conference on Advanced Engineering Computing and Applications in Sciences (ADVCOMP 2020), Nice, France, September, 2020
181. Member of the Program Committee, 2020 International Symposium on Computational Intelligence (ISOCI 2020), Berlin, Germany, September, 2020
182. Member of the Program Committee, 11<sup>th</sup> Workshop on Applications for Multi-Core Architectures, Porto, Portugal, September, 2020
183. Member of the Program Committee, DEXA 2020, Bratislava, Slovakia, September, 2020

184. Member of the Program Committee, 2<sup>nd</sup> International Conference on Computer, Software Engineering and Applications (CSEA 2020), Taichung, Taiwan, August, 2020
185. Member of the Program Committee, 2020 International Conference on Ubiquitous Power Internet of Things (UPIOT 2020), Xian, China, August, 2020
186. Member of the Program Committee, 4<sup>th</sup> International Conference on Recent Advances in Signal Processing, Telecommunications & Computing (SigTelCom), Ha Noi City, Vietnam, August, 2020
187. Member of the Program Committee, 2020 International Conference on INovations in Intelligent SysTems and Applications (INISTA'20), Novi Sad, Serbia, August, 2020
188. Co-Chair, 10<sup>th</sup> Workshop on Applications of Software Agents (WASA), Novi Sad, Serbia, August, 2020
189. Member of the Program Committee, 12<sup>th</sup> International Conference on Computational Collective Intelligence (ICCCI 2020), Da Nang, Vietnam, July, 2020
190. Member of the Program Committee, 19<sup>th</sup> International Symposium on Parallel and Distributed Computing, Warsaw, Poland, July, 2020
191. Member of the Program Committee, The 14th International Conference on Complex, Intelligent and Software Intensive Systems, Łódź, Poland, July, 2020
192. Member of the Program Committee, 7<sup>th</sup> International Conference on Control, Decision and Information Technologies (CODIT), Prague, Czech Republic, June-July, 2020
193. Member of the Program Committee, The Ninth International Conference on Intelligent Systems and Applications (INTELLI 2020), Athens, Greece, June-July, 2020
194. Member of Steering Committee, Twelfth Conference of the Euro-American Consortium for Promoting the Application of Mathematics in Technical and Natural Sciences, Albena, Bulgaria, June, 2020
195. Member of the Program Committee, 19<sup>th</sup> International Symposium on Parallel and Distributed Computing (ISPDC'20), Warsaw, Poland, July, 2020
196. Member of the Program Committee, Second International Conference on Learning and Optimization Algorithms: Theory and Applications (LOPAL 2019), Cordoba, Spain, June, 2020
197. Member of the Program Committee, 8<sup>th</sup> International Workshop on Multi-agent Based Applications for Smart Grids and Sustainable Energy Systems (MASGES 2020), L'Aquila, Italy, June, 2020
198. Member of the Program Committee, International Conference on Computational Science (ICCS 2020), Amsterdam, The Netherlands, June, 2020
199. Member of the Program Committee, 15<sup>th</sup> International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2020), Burgos, Spain, June, 2020
200. Member of the Program Committee, International Conference on Paradigms of Computing, Communication and Data Sciences (PCCDS-2020), Kurukshetra, India, May 2020
201. Member of the Program Committee, International Conference on applications of AI and Machine Learning (ICAML 2020), Patiala, India, May, 2020
202. Member of the Program Committee, 17<sup>th</sup> International Conference for Informatics and Information Technologies (CIIT 2020), Krushevo, North Macedonia, May, 2020
203. Member of the Program Committee, The 7th International Conference on Agreement Technologies, Thessaloniki, Greece, April, 2020

204. Member of the Program Committee, The 11<sup>th</sup> International Conference on Ambient Systems, Networks and Technologies, Warsaw, Poland, April, 2020
205. Member of the Program Committee, 14<sup>th</sup> IEEE International Symposium on Service Oriented System Engineering (SOSE-2020), Oxford, UK, April, 2020
206. Member of the Program Committee, 12<sup>th</sup> Asian Conference on Intelligent Information and Database Systems (ACIIDS 2020), Phuket, Thailand, March, 2020
207. Member of the Program Committee, International Conference on Computing Science, Communication and Security (COMS2), Mehsana, India, March, 2020
208. Member of the Program Committee, 3<sup>rd</sup> International Conference on Recent Innovations in Computing (ICRIC-2020), Jammu, India, March, 2020
209. Member of the Program Committee, International Conference on Machine Intelligence and Data Science Applications (MIDAS 2020), Dehradun, India, March, 2020
210. Member of the Program Committee, Role of ICT in Higher Education: Trends, Problems and Prospects (ICRIHE - 2020), Delhi, India, February, 2020
211. Member of the Program Committee, 1<sup>st</sup> International Conference on Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy (MMCITRE-2020), Gandhinagar, India, February, 2020
212. Member of the Program Committee, 3<sup>rd</sup> International Conference on Emerging Technology Trends in Electronics, Communication and Networking (ET2ECN 2020), Surat, India, February, 2020
213. Member of the Program Committee, Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy, Gandhinagar, India, February, 2020
214. Member of the Program Committee, 2020 International Conference on Control and Decision (ICoCD 2020), Sydney, Australia, February, 2020
215. Member of the Program Committee, 4<sup>th</sup> International Conference on Computational Intelligence & Networks (CINE 2020), Kolkata, India, February, 2020
216. Member of the Program Committee, 4<sup>th</sup> International Conference on “Innovative Advancements in Engineering and Technology (IAET-2020)”, Jaipur, India, February, 2020
217. Member of the program Committee, 1<sup>st</sup> International Conference on Innovative Trends in Engineering Technology and Management (ICITETM-2020), Delhi, India, February, 2020
218. Member of the Program Committee, 2<sup>nd</sup> International Conference ICT for Digital, Smart, and Sustainable Development, (ICIDSSD '2020), Delhi, India, February, 2020
219. Member of the Program Committee, International Conference on Applied Soft Computing and Communication Networks (ACN'19), Trivandrum, India, December, 2019
220. Member of the Steering Committee, International Conference on Information Management & Machine Intelligence (ICIMMI-2019), Jaipur, India, December, 2019
221. Member of the Program Committee, Futuristic Trends in Network and Communication Technologies (FTNCT), Wagnaghat, India, November, 2019
222. Member of the Program Committee, Twentieth International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2019), Gold Coast, Australia, December, 2019
223. Member of the Program Committee, Second International Conference on Futuristic Trends in Network and Communication Technologies, Wagnaghat, India, November, 2019
224. Member of the Program Committee, 28<sup>th</sup> International Conference on Interdisciplinary Mathematics, Statistics and Computational Intelligence Techniques (IMSCIT-2019), Santiago, Chile, November, 2019

225. Member of the Program Committee, 23<sup>rd</sup> International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, October, 2019
226. Member of the Program Committee, 10<sup>th</sup> Workshop on Applications for Multi-Core Architectures, Campo Grande, Brasil, October, 2019
227. Honorary co-Chair, International Conference on Computing, Communications and Cyber-Security (IC4S-2019), Chandigarh, India, October, 2019
228. Co-Chair of Technical Program Committee, 2019 Workshop on Communication Networks and Power Systems, Brasilia, Brazil, October, 2019
229. Member of the Steering Committee, 13<sup>th</sup> International Symposium on Intelligent Distributed Computing (IDC'2019), St. Petersburg, Russia, October, 2019
230. Member of the Program Committee, 12<sup>th</sup> International Conference ICT Innovations 2019, Ohrid, Macedonia, October, 2019
231. Member of the Program Committee, 11<sup>th</sup> International Conference on Knowledge and Systems Engineering (KSE'19), Da Nang, Vietnam, October, 2019
232. Member of the Program Committee, 12<sup>th</sup> International Conference on Internet and Distributed Computing Systems (IDCS 2019), Naples, Italy, October, 2019
233. Member of the Program Committee, 25<sup>th</sup> International Conference on Information and Software Technologies (ICIST 2019), Kaunas, Lithuania, October, 2019
234. Member of Program Board, Forum of Teleinformatics, Miedzeszyn, Poland, October, 2019
235. Member of the Program Committee, 2019 International Conference on Advanced Technologies for Communications (ATC), Hanoi, Vietnam, October, 2019
236. Member of the Program Committee, 11<sup>th</sup> International Conference on Computational Collective Intelligence (ICCCI 2019), Hendaye, France, September, 2019
237. Member of the Program Committee, 13<sup>th</sup> International Conference on Parallel Processing and Applied Mathematics (PPAM 2019), Białystok, Poland, September, 2019
238. Member of the Program Committee, 2019 IEEE International Conference on Computing Power and Communications Technologies, Delhi, India, September, 2019
239. Member of the Program Committee, International Conference on Societal Automation, Kraków, Poland, September, 2019
240. Member of the Program Committee, 23<sup>rd</sup> International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, Budapest, Hungary, September, 2019
241. Member of the Program Committee, The 14<sup>th</sup> IFAC/IFIP/IFORS/IEA Symposium on Analysis, Design, and Evaluation of Human-Machine Systems, Tallin, Estonia, September, 2019
242. Member of the Program Committee, Thirteenth International Conference on Advanced Engineering Computing and Applications in Sciences (ADVCOMP 2019), Porto, Portugal, September, 2019
243. Co-Chair, 14<sup>th</sup> Federated Conference on Computer Science and Information Systems (FedCSIS'2019), Leipzig, Germany, September, 2019
244. Member of the Program Committee, DEXA 2019, Linz, Austria, August, 2019
245. Member of the Program Committee, 2019 International Conference on Ubiquitous Power Internet of Things (UPIOT 2020), Chongqing, China, August, 2019
246. Member of the Program Committee, The 21<sup>st</sup> International Conferences on High Performance Computing and Communications (HPCC), Zhangjiajie, China, August, 2019
247. Member of the Program Committee, 17<sup>th</sup> IEEE International Conference on Smart City, Zhangjiajie, China, August, 2019

248. Member of the Program Committee, 5<sup>th</sup> European Workshop on Parallel and Distributed Computing Education for Undergraduate Students (Euro-EDUPAR), Göttingen, Germany, August, 2019
249. Member of the Program Committee, Parallel Computing Technologies (PaCT-2019) 15<sup>th</sup> International Conference, Almaty, Kazakhstan, August, 2019
250. Member of the Program Committee, 19<sup>th</sup> IEEE International Conference on Scalable Computing and Communications (ScalCom-2019), Leicester, UK, August, 2019
251. Member of the Program Committee, Special Session on High Performance Computing and Modeling & Simulation Education (HPC-Ed 2019), Dublin, Ireland, July, 2019
252. Co-Chair, 9<sup>th</sup> Workshop on Applications of Software Agents (WASA), Sofia, Bulgaria, July, 2019
253. Member of the Program Committee, The Eights International Conference on Intelligent Systems and Applications (INTELLI 2019), Rome, Italy, July, 2019
254. Member of the Program Committee, International Conference on Computational Science (ICCS 2019), Faro, Portugal, June, 2019
255. Member of the Program Committee, 17<sup>th</sup> International Conference on Practical Applications of Agents and Multi-Agent Systems, Avila, Spain, June, 2019
256. Member of the Program Committee, 7<sup>th</sup> International Workshop on Multi-agent Based Applications for Smart Grids and Sustainable Energy Systems (MASGES 2019), Avila, Spain, June, 2019
257. Member of the Program Committee, International Conference on Emerging Trends in Information Technology (ICETIT-2019), Delhi, India, June, 2019
258. Member of Steering Committee, Eleventh Conference of the Euro-American Consortium for Promoting the Application of Mathematics in Technical and Natural Sciences, Albena, Bulgaria, June, 2019
259. Member of the Program Committee, The Web Conference, Demos Track, San Francisco, CA, May, 2019
260. Member of the Program Committee, 16<sup>th</sup> Conference for Informatics and Information Technologies (CIIT 2019), Mavrovo, Macedonia, May, 2019
261. Member of the Program Committee, 14<sup>th</sup> International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2019), Seville, Spain, May, 2019
262. Member of the Program Committee, 10<sup>th</sup> Advanced Doctoral Conference on Computing, Electrical and Industrial Systems (DoCEIS'19), Costa de Caparica, Portugal, May, 2019
263. Member of the Program Committee, 11<sup>th</sup> Asian Conference on Intelligent Information and Database Systems (ACIIDS 2019), Yogyakarta, Indonesia, April, 2019
264. Member of the Program Committee, 13<sup>th</sup> IEEE International Symposium on Service Oriented System Engineering (SOSE-2019), San Francisco, CA, April, 2019
265. Member of the Program Committee, 6<sup>th</sup> International Conference on Control, Decision and Information Technologies (CODIT), Paris, France, April, 2019
266. Member of the Program Committee, 10<sup>th</sup> International Conference (EMO 2019), East Lansing, MI, USA, March, 2019
267. Member of the Program Committee, 2<sup>nd</sup> International Conference on Recent Innovations in Computing (ICRIC-2019), Jammu, India, March, 2019
268. Workshop Chair, International Conference on Pervasive Computing Advances and Applications (PerCAA-2019), Jaipur, India, January, 2019

269. Member of the Program Committee, International Conference on Intelligent Computing and Communication Technologies (ICICCT-2019), Hyderabad, India, January, 2019
270. Member of the Program Committee, 1<sup>st</sup> International Conference on Smart Innovation, Ergonomics and Applied Human Factors (SEAHF 2019), Madrid, Spain, January, 2019
271. Member of the Program Committee, 2019 IEEE International Conference on Computing, Mathematics and Engineering Technologies (iCoMET), Sukkur, Pakistan, January, 2019
272. Member of the Program Committee, 1<sup>st</sup> International Conference on Smart Innovation, Ergonomics and Applied Human Factors (SEAHF 2019), Madrid, Spain, January, 2019
273. Workshop Chair, International Conference on Pervasive Computing Advances and Applications (PerCAA-2019), Jaipur, India, January, 2019
274. Member of the Program Committee, 6<sup>th</sup> International Conference on Agreement Technologies (AT 2018), Bergen, Norway, December, 2018
275. Member of the Program Committee, 10<sup>th</sup> International Conference on Computer Science and its Applications (CSA-18), Kuala Lumpur, Malaysia, December, 2018
276. Member of the Program Committee, 10<sup>th</sup> International Conference on Knowledge and Systems Engineering (KSE'18), Ho Chi Minh City, Vietnam, November, 2018
277. Member of the Program Committee, Twelfth International Conference on Advanced Engineering Computing and Applications in Sciences (ADVCOMP 2018), Athens, Greece, November, 2018
278. Member of the Steering Committee, 3<sup>rd</sup> International Conference and Workshops on Recent Advances and Innovations in Engineering, Jaipur, India, November, 2018
279. Member of the Program Committee, International Conference on Smart Digital Environment (ICSDE'18), Rabat, Morocco, October, 2018
280. Member of the Program Committee, 11th International Conference on Internet and Distributed Computing Systems (IDCS 2018), Tokyo, Japan, October, 2018
281. Member of the Program Committee, 2018 International Conference on Advanced Technologies for Communications (ATC), Ho Chi Minh City, Vietnam, October, 2018
282. Member of the Program Committee, 22<sup>nd</sup> International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, October, 2018
283. Member of the Steering Committee, 12<sup>th</sup> International Symposium on Intelligent Distributed Computing (IDC'2018), Bilbao, Spain, October, 2018
284. Member of Program Board, Forum of Teleinformatics, Miedzeszyn, Poland, October, 2018
285. Member of the Program Committee, 24<sup>th</sup> International Conference on Information and Software Technologies (ICIST 2018), Vilnius, Lithuania, October, 2018
286. Member of the Program Committee, IEEE 5<sup>th</sup> International IEEE Congress on Information Science and Technology (CiSt'18), Marrakech, Morocco, October, 2018
287. Member of the Program Committee, 9<sup>th</sup> Workshop on Applications for Multi-Core Architectures, Lyon, France, September, 2018
288. Member of the Program Committee, 10<sup>th</sup> International Conference ICT Innovations 2018, Ohrid, Macedonia, September, 2018
289. Co-Chair, Federated Conference on Computer Science and Information Systems (FedCSIS'2018), Poznań, Poland, September, 2018
290. Member of the Program Committee, 10<sup>th</sup> International Conference on Computational Collective Intelligence (ICCCI 2018), Bristol, UK, September, 2018
291. Member of the Program Committee, ACS 2018 Multi-Conference, Międzyzdroje, Poland, September, 2018

292. Member of the Program Committee, 22<sup>nd</sup> International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, Belgrade, Serbia, September, 2018
293. Member of the Program Committee, DEXA 2018, Regensburg, Germany, August, 2018
294. Member of the Program Committee, 4<sup>th</sup> European Workshop on Parallel and Distributed Computing Education for Undergraduate Students (Euro-EDUPAR), Turin, Italy, August, 2018
295. Member of the Program Committee, Eights International Symposium on Business Modeling and Software Design (BMSD), Vienna, Austria, July, 2018
296. Member of the Program Committee, International Conference on Computational Science (ICCS 2018), Wuxi, China, June, 2018
297. Member of the Program Committee, The 20th International Conferences on High Performance Computing and Communications (HPCC), Exeter, UK, June, 2018
298. Member of the Program Committee, 13th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2018), San Sebastian, Spain, June, 2018
299. Member of the Program Committee, 16<sup>th</sup> IEEE International Conference on Smart City (SmartCity-2018), Exeter, UK, June, 2018
300. Co-Chair, 8<sup>th</sup> Workshop on Applications of Software Agents (WASA), Novi Sad, Serbia, June, 2018
301. Member of the Program Committee, International Conference on Learning and Optimization Algorithms Theory and Application (LOPAL), Rabat, Morocco, May, 2018
302. Member of the Program Committee, Workshop on Computational Intelligence in Ambient Assisted Living Systems, Porto, Portugal, May, 2018
303. Member of the Program Committee, 9th Advanced Doctoral Conference on Computing, Electrical and Industrial Systems (DoCEIS'18), Lisbon, Portugal, May, 2018
304. Member of the Program Committee, International Conference on Innovative Computing and Communication (ICICC-2018), Delhi, India, May, 2018
305. Member of the Program Committee, 5<sup>th</sup> International Conference on Control, Decision and Information Technologies (CODIT), Thessaloniki, Greece, April, 2018
306. Member of the Program Committee, 15<sup>th</sup> Conference for Informatics and Information Technologies (CIIT 2018), Mavrovo, Macedonia, April, 2018
307. Member of the Program Committee, International Conference on Communication, Management and Information Technology (ICCMIT'18), Madrid, Spain, April, 2018
308. Member of the Program Committee, The Web Conference, Lyon, France, April, 2018
309. Member of Steering Committee, 3<sup>rd</sup> Workshop on Towards Global Interoperability among IoT Systems (Globe-IoT), Orlando, FL, April, 2018
310. Member of the Program Committee, 10<sup>th</sup> Asian Conference on Intelligent Information and Database Systems (ACIIDS 2018), Dong Hoi City, Vietnam, March, 2018
311. Member of the Program Committee, 12<sup>th</sup> IEEE International Symposium on Service Oriented System Engineering (SOSE-2018), Bamberg, Germany, March, 2018
312. Member of the Program Committee, 2018 IEEE International Conference on Computing, Mathematics and Engineering Technologies (iCoMET), Sukkur, Pakistan, March, 2018
313. Member of the Program Committee, SMARTER EUROPE, Essen, Germany, February, 2018
314. Member of the Program Committee, Futuristic Trends in Network and Communication Technologies (FTNCT), Wagnaghat, India, February, 2018

315. Member of the Program Committee, 3<sup>rd</sup> International Conference On Internet of Things: Smart Innovation and Usages (IoT-SIU 2018), Bhimtal, India, February, 2018
316. Member of the Program Committee, SmartIoT: AI Enhanced IoT Data Processing for Intelligent Applications, New Orleans, LA, February, 2018
317. Member of the Program Committee, 2018 International Conference on Control Science and Intelligent Manufacturing (ICCSIM), Kuala Lumpur, Malaysia, January, 2018
318. Member of the Program Committee, 2<sup>nd</sup> International Conference on Recent Advances in Signal Processing, Telecommunications & Computing (SigTelCom), Ho Chi Minh City, Vietnam, January, 2018
319. Member of the Program Committee, 9<sup>th</sup> International Conference on Computer Science and its Applications (CSA-17), Taichung, Taiwan, December, 2017
320. Member of the Program Committee, 10<sup>th</sup> International Conference on Internet and Distributed Computing Systems (IDCS 2017), Mana Island, Fiji, December, 2017
321. Member of the Program Committee, 15<sup>th</sup> International Conference on Frontiers of Information Technology (FIT'17), Islamabad, Pakistan, December, 2017
322. Member of the Program Committee, 5<sup>th</sup> International Conference on Agreement Technologies (AT 2017), Evry, France, December, 2017
323. Member of the International Advisory Committee, 6<sup>th</sup> Conference on Information Technology and its Applications (CITA), Da Nang, Vietnam, December, 2017
324. Member of the Program Committee, 4<sup>th</sup> NAFOSTED Conference on Information and Computer Science (NICS), Hanoi, Vietnam, November, 2017
325. Member of the Program Committee, Digital Economy – Management, Innovation, Society & Technology (DEMIST), Warsaw, Poland, November, 2017
326. Member of the Program Committee, 3<sup>rd</sup> International Symposium on Big Data Analytics in Science and Engineering (BASE 2017), Aizu Wakamatsu, Japan, November, 2017
327. Member of the Program Committee, Eleventh International Conference on Advanced Engineering Computing and Applications in Sciences (ADVCOMP 2017), Barcelona, Spain, November, 2017
328. Member of the Program Committee, International Conference on Smart Systems and Technologies (SST), Osijek, Croatia, October, 2017
329. Co-Chair, 7<sup>th</sup> Workshop on Applications of Software Agents (WASA), Belgrade, Serbia, October, 2017
330. Member of the Program Committee, International Symposium on Computer Science and Intelligent Controls (ISCSIC 2017), Budapest, Hungary, October, 2017
331. Member of the Program Committee, 23<sup>rd</sup> International Conference on Information and Software Technologies (ICIST 2017), Druskininkai, Lithuania, October, 2017
332. Member of the Program Committee, 8<sup>th</sup> Workshop on Applications for Multi-Core Architectures, Sao Paulo, Brasil, October, 2017
333. Member of the Steering Committee, 11<sup>th</sup> International Symposium on Intelligent Distributed Computing (IDC'2017), Belgrade, Serbia, October, 2017
334. Member of the Program Committee, 21<sup>st</sup> International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, October, 2017
335. Member of the Program Committee, International Conference on Advanced Technologies for Communications (ATC), Quynhom, Vietnam, October, 2017
336. Member of Program Board, Forum of Teleinformatics, Miedzeszyn, Poland, October, 2017

337. Co-Chair, Federated Conference on Computer Science and Information Systems (FedCSIS'2017), Prague, Czech Republic, September, 2017
338. Member of the Program Committee, 9<sup>th</sup> International Conference ICT Innovations 2017, Skopje, Macedonia, September, 2017
339. Member of the Program Committee, 9<sup>th</sup> International Conference on Computational Collective Intelligence (ICCCI 2017), Nicosia, Cyprus, September, 2017
340. Member of the Program Committee, 12<sup>th</sup> International Conference on Parallel Processing and Applied Mathematics (PPAM 2017), Lublin, Poland, September, 2017
341. Member of the Program Committee, 21<sup>st</sup> International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, Marseille, France, September, 2017
342. Member of the Program Committee, Seventh Conference on Internet Technologies and Applications (ITA 17), Wrexham, UK, September, 2017
343. Co-Chair, Workshop on Scalable Computing (WSC'17), Prague, Czech Republic, September, 2017
344. Member of the Program Committee, 12th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2017), Leon, Spain, October, 2017
345. Member of the Program Committee, 3<sup>rd</sup> IEEE International Conference on Internet of People, San Francisco, CA, August, 2017
346. Member of the Program Committee, 15<sup>th</sup> German Conference on Multi-Agent System Technologies (MATES), Leipzig, Germany, August, 2017
347. Member of the Program Committee, DEXA 2017, Lyon, France, August, 2017
348. Member of the Program Committee, 3<sup>rd</sup> European Workshop on Parallel and Distributed Computing Education for Undergraduate Students (Euro-EDUPAR), Santiago de Compostella, Spain, August, 2017
349. Member of the Program Committee, 4<sup>th</sup> Multidisciplinary International Social Networks Conference (MISNC), Bangkok, Thailand, July, 2017
350. Member of the Program Committee, International Conference on Smart Digital Environment 2017, Rabat, Morocco, July, 2017
351. Member of the Program Committee, International Conference on Information and Digital Technologies (IDT 2017), Zilina, Slovakia, July, 2017
352. Member of the Program Committee, Sixth International Conference on Intelligent Systems and Applications (INTELLI 2017), Nice, France, July, 2017
353. Member of the Program Committee, Sixth International Conference on Intelligent Systems and Applications (INTELLI), Nice, France, July, 2017
354. Member of the Program Committee, 16th IEEE International Conference on Scalable Computing and Communications (ScalCom 2016), Toulouse, France, July, 2016
355. Member of the Program Committee, Seventh International Symposium on Business Modeling and Software Design (BMSD), Barcelona, Spain, July, 2017
356. Member of the Program Committee, International Conference on Artificial Intelligence and Computer Engineering (AICE2017), Suzhou, China, June, 2017
357. Member of the Program Committee, Multi-agent based Applications for Sustainable Energy Systems (MASGES), Porto, Portugal, June, 2017
358. Member of the Program Committee, 13<sup>th</sup> IEEE International Conference GreenCom-2017, Exeter, UK, June, 2017

359. Member of the Program Committee, 3rd IEEE International Conference on Cybernetics (CYBCONF), Exeter, UK, June 2017
360. Member of the Program Committee, International Workshop on Agent Technology for Ambient Intelligence, Bucharest, Romania, May, 2017
361. Member of the Program Committee, 4th International Conference on Control, Decision and Information Technologies (CODIT), Barcelona, Spain, April, 2017
362. Member of the Program Committee, First Workshop on Next generation of Cloud Architectures, Belgrade, Serbia, April 2017
363. Member of the Program Committee, 8<sup>th</sup> Advanced Doctoral Conference on Computing, Electrical and Industrial Systems (DoCEIS'17), Lisbon, Portugal, May, 2017
364. Member of the Program Committee, 11<sup>th</sup> IEEE International Symposium on Service Oriented System Engineering (SOSE-2017), San Francisco, CA, April, 2017
365. Member of the Program Committee, 9<sup>th</sup> Asian Conference on Intelligent Information and Database Systems (ACIIDS 2017), Kanazawa, Japan, April, 2017
366. Member of the Program Committee, International Conference on Communication, Management and Information Technology (ICCMIT'17), Warsaw, Poland, April, 2017
367. Member of the Program Committee, First Workshop On Next generation of Cloud Architectures (CLOUDNG), Belgrade, Serbia, April, 2017
368. Member of the Program Committee, 2nd International Conference on Research in Intelligent and Computing in Engineering (RICE-2017), Gopeshwar, India, March, 2017
369. Member of the Program Committee, Fifth International Conference on Parallel, Distributed, Grid and Cloud Computing for Engineering (PARENG 2017), Pecs, Hungary, March, 2017
370. Member of the Program Committee, SMARTER EUROPE, Essen, Germany, February, 2017
371. Co-Chair, 1st Workshop on Towards Global Interoperability among IoT Systems (Globe-IoT), Las Vegas, NV, January, 2017
372. Member of the Program Committee, 14th International Conference on Frontiers of Information Technology (FIT'16), Islamabad, Pakistan, December, 2016
373. Member of the Program Committee, 4th International Conference on Agreement Technologies (AT 2016), Valencia, Spain, December, 2016
374. Member of the Program Committee, 8th International Conference on Computer Science and its Applications (CSA-16), Phuket, Thailand, December, 2016
375. Member of the Program Committee, Eleventh International Multi-Conference on Computing in the Global Information Technology (ICCGI), Barcelona, Spain, November, 2016
376. Member of the Program Committee, Fifth International Conference on Intelligent Systems and Applications (INTELLI), Barcenona, Spain, November, 2016
377. Member of the Program Committee, Third International Afro-European Conference for Industrial Advancement (AECIA), Marrakesh, Morocco, November, 2016
378. Member of the Program Committee, 11th International Conference on P2P, Parallel, Grid, Cloud and Internet Computing, Asan, Korea, November, 2016
379. Member of Program Board, Forum Teleinformatyki, Miedzeszyn, Poland, October, 2016
380. Member of the Program Committee, IEEE Colloquium in Information Science and Technology (CIST'16), Tangier, Morocco, October, 2016
381. Member of the Program Committee, International Conference on Advanced Technologies for Communications (ATC), Hanoi, Vietnam, October, 2016

382. Member of the Program Committee, 7th Workshop on Applications for Multi-Core Architectures, Los Angeles, CA, October, 2016
383. Member of the Program Committee, International Workshop on Quality of Service in Smart Cities, Pittsburgh, PA, October, 2016
384. Member of the Program Committee, 9th International Conference on Internet and Distributed Computing Systems (IDCS 2016), Wuhan, China, October, 2016
385. Member of the Program Committee, 22nd International Conference on Information and Software Technologies (ICIST 2016), Druskininkai, Lithuania, October, 2016
386. Member of the Steering Committee, 10th International Symposium on Intelligent Distributed Computing (IDC'2016), Paris, France, October, 2016
387. Member of the Program Committee, 20th International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, October, 2016
388. Member of the Program Committee, 11<sup>th</sup> International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2016), San Sebastian, Spain, October, 2016
389. Member of the Program Committee, Tenth International Conference on Advanced Engineering Computing and Applications in Sciences (ADVCOMP 2016), Venice, Italy, October, 2016
390. Member of the Program Committee, 3rd Multidisciplinary International Social Networks Conference (MISNC), Kean University, NJ, September, 2016
391. Co-Chair, Federated Conference on Computer Science and Information Systems (FedCSIS'2016), Gdańsk, Poland, September, 2016
392. Co-Chair, 6<sup>th</sup> Workshop on Applications of Software Agents (WASA), Halkidiki, Greece, September, 2016
393. Co-Chair, Workshop on Agent Based Computing: from Model to Implementation, (ABC:MI'16), Gdańsk, Poland, September, 2016
394. Co-Chair, Workshop on Scalable Computing (WSC'16), Gdańsk, Poland, September, 2016
395. Member of the Program Committee, 3<sup>rd</sup> NAFOSTED Conference on Information and Computer Science (NICS), Da Nang, Vietnam, September, 2016
396. Member of the Program Committee, DEXA 2016, Porto, Portugal, September, 2016
397. Member of the Program Committee, International Conference on Information and Digital Technologies (IDT 2016), Rzeszów, Poland, July, 2016
398. Member of the Program Committee, 2nd IEEE International Conference on Internet of People, Toulouse, France, July, 2016
399. Member of the Program Committee, 14th International Conference on Practical Applications of Agents and Multiagent Systems, Sevilla, Spain, June, 2016
400. Member of the Program Committee, Second International Conference on Event-Based Control, Communication and Signal Processing (EBCCSP 2016), Kraków, Poland, June, 2016
401. Member of the Program Committee, Sixth International Symposium on Business Modeling and Software Design (BMSD), Rhodes, Greece, June, 2016
402. Member of the Program Committee, 25<sup>th</sup> IEEE International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE-2016), Paris, France, June, 2016
403. Member of the Program Committee, Numerical Computations: Theory and Algorithms (NUMTA), Pizzo Callabro, Italy, June, 2016

404. Member of the Program Committee, Multi-agent based Applications for Sustainable Energy Systems (MASGES), Sevilla, Spain, June, 2016
405. Member of the Program Committee, International Conference on Computational Science (ICCS 2016), San Diego, CA, June, 2016
406. Member of the Program Committee, The Eleventh International Conference on Internet and Web Applications and Services (ICIW 2016), Valencia, Spain, May, 2016
407. Member of the Program Committee, AAMAS 2016, Singapore, May, 2016
408. Member of the Program Committee, 1<sup>st</sup> International Workshop on Interoperability, Integration, and Interconnection of Internet of Things Systems (I4T 2016), Berlin, Germany, April, 2016
409. Member of the Program Committee, 7<sup>th</sup> Advanced Doctoral Conference on Computing, Electrical and Industrial Systems (DoCEIS'16), Lisbon, Portugal, April, 2016
410. Member of the Program Committee, 10<sup>th</sup> IEEE International Symposium on Service Oriented System Engineering (SOSE-2016), Oxford, UK, March-April, 2016
411. Member of the Program Committee, 3<sup>rd</sup> International Conference on Big Data and Smart City, Muscat, Oman, March, 2016
412. Member of the Program Committee, 8<sup>th</sup> Asian Conference on Intelligent Information and Database Systems (ACIIDS 2016), Da Nang, Vietnam, March, 2016
413. Member of the Program Committee, 3<sup>rd</sup> International Conference on Control, Decision and Information Technologies (CODIT), Malta, March, 2016
414. Member of the Program Committee, SMARTER EUROPE, Essen, Germany, February, 2016
415. Member of the Program Committee, 3<sup>rd</sup> International Conference on Computing, Management and Telecommunications (ComManTel 2015), DaNang, Vietnam, December, 2015
416. Member of the Program Committee, 7<sup>th</sup> International Conference on Computer Science and its Applications (CSA-15), Cebu, Philippines, December, 2015
417. Member of the Program Committee, 7<sup>th</sup> International Symposium on Parallel Architectures, Algorithms and Programming (PAAP), Nanjing, China, December, 2015
418. Member of the Program Committee, 13<sup>th</sup> International Conference on Frontiers of Information Technology (FIT'15), Islamabad, Pakistan, December, 2015
419. Member of the Program Committee, Third International Conference on Agreement Technologies (AT 2015), Athens, Greece, December, 2015
420. Member of the Program Committee, 2nd International Conference on "Electrical Electronics Instrumentation and Computer Communication," Karpagam, India, December, 2015
421. Member of the Program Committee, 10th International Conference on P2P, Parallel, Grid, Cloud and Internet Computing, Kraków, Poland, November, 2015
422. Member of the Program Committee, 7<sup>th</sup> International Conference on Management of Emergent Digital EcoSystems (MEDES), Sao Paulo, Brasil, October, 2015
423. Member of the Program Committee, 21<sup>st</sup> International Conference on Information and Software Technologies (ICIST 2015), Druskininkai, Lithuania, October, 2015
424. Member of the Program Committee, 19th International Conference on System Theory, Control and Computing, Fundata, Romania, October, 2015
425. Member of the Program Committee, 7th International Conference ICT Innovations 2015, Ohrid, Macedonia, October, 2015

426. Member of the Program Committee, Fourth International Conference on Intelligent Systems and Applications (INTELLI), St. Julians, Malta, October, 2015
427. Member of the Steering Committee, 9th International Symposium on Intelligent Distributed Computing (IDC'2015), Guimarães, Portugal, October, 2015
428. Member of the Program Committee, Tenth International Multi-Conference on Computing in the Global Information Technology (ICCGI), St. Julians, Malta, October, 2015
429. Member of the Program Committee, 13<sup>th</sup> German Conference on Multi-Agent System Technologies (MATES), Cottbus, Germany, September-October, 2015
430. Member of the Program Committee, IEEE AFRICON 2015 Conference, Addis Ababa, Ethiopia, September, 2015
431. Member of the Program Committee, 2<sup>nd</sup> NAFOSTED Conference on Information and Computer Science (NICS), Ho Chi Minh City, Vietnam, September, 2015
432. Member of the Program Committee, 19th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, Singapore, September, 2015
433. Member of the Program Committee, Second International Afro-European Conference for Industrial Advancement (AECIA), Villejuif, France, September, 2015
434. Member of the Program Committee, 8th International Conference on Internet and Distributed Computing Systems (IDCS 2015), Windsor, Berkshire, UK, September, 2015
435. Member of the Program Committee, Sixth Conference on Internet Technologies and Applications (ITA 15), Wrexham, UK, September, 2015
436. Co-Chair, 5<sup>th</sup> Workshop on Applications of Software Agents (WASA), Craiova, Romania, September, 2015
437. Co-Chair, Workshop on Agent Based Computing: from Model to Implementation, (ABC:MI'15), Łódź, Poland, September, 2015
438. Co-Chair, Workshop on Scalable Computing (WSC'15), Łódź, Poland, September, 2015
439. Co-Chair, Federated Conference on Computer Science and Information Systems (FedCSIS'2015), Łódź, Poland, September, 2015
440. Member of the Program Committee, DEXA 2015, Valencia, Spain, September, 2015
441. Member of the Program Committee, 2<sup>nd</sup> Multidisciplinary International Social Networks Conference, Matsuyama, Japan, September, 2015
442. Member of the Program Committee, Eleventh International Conference on Parallel Processing and Applied Mathematics (PPAM 2015), Kraków, Poland, September, 2015
443. Member of the Program Committee, 2<sup>nd</sup> Workshop on Numerical Algorithms on Hybrid Architectures, Kraków, Poland, September, 2015
444. Member of the Program Committee, International Conference on Information and Digital Technologies (IDT 2015), Rzeszów, Poland, July, 2015
445. Member of the Program Committee, Ninth International Conference on Advanced Engineering Computing and Applications in Sciences (ADVCOMP 2015), Nice, France, July, 2015
446. Member of the Program Committee, First International Conference on Event-Based Control, Communication, and Signal Processing, Kraków, Poland, June, 2015
447. Member of the Program Committee, Multi-agent based Applications for Sustainable Energy Systems (MASGES), Salamanca, Spain, June, 2015
448. Member of the Program Committee, 10<sup>th</sup> International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2015), Burgos, Spain, June, 2015

449. Member of the Program Committee, BMSD - the International Symposium on Business Modeling and Software Design, Rhodes, Greece, June, 2015
450. Member of the Program Committee, 18<sup>th</sup> International Conference on Business Information Systems (BIS 2015), Poznań, Poland, June, 2015
451. Member of the Program Committee, International Conference on Computational Science (ICCS 2015), Reykjavik, Iceland, June, 2015
452. Member of the Program Committee, 20<sup>th</sup> International Conference on Control Systems and Computer Science (CSCS20-2015), Bucharest, Romania, May, 2015
453. Member of the Program Committee, International Workshop on Agent Technology for Ambient Intelligence, Bucharest, Romania, May, 2015
454. Member of the Program Committee, 7<sup>th</sup> Asian Conference on Intelligent Information and Database Systems (ACIIDS 2015), Bali, Indonesia, April, 2015
455. Member of the Program Committee, Tools, Applications and Implementations of Methods for Determining Similarities Between Documents (TAIM4DSBD), Warsaw, Poland, April, 2015
456. Member of the Program Committee, 9<sup>th</sup> IEEE International Symposium on Service Oriented System Engineering (SOSE-2015), San Francisco, CA, March-April, 2015
457. Member of the Program Committee, 8<sup>th</sup> International Conference on Evolutionary Multi-Criterion Optimization, Guimaraes, Portugal, March-April, 2015
458. Member of the Program Committee, 29<sup>th</sup> IEEE International Conference on Advanced Information Networking and Applications (AINA-15), Gwangju, Korea, March, 2015
459. Member of the Program Committee, Sixth International Conference on Computational Logics, Algebras, Programming, Tools, and Benchmarking (COMPUTATION TOOLS 2015), Nice, France, March, 2015
460. Member of the Program Committee, Fourth International Conference on Parallel, Distributed, Grid and Cloud Computing for Engineering (PARENG 2015), Dubrovnik, Croatia, March, 2015
461. Member of the Program Committee, SMARTER EUROPE, Essen, Germany, February, 2015
462. Member of the Program Committee, International Workshop on Smart Medical Devices - from Lab to Clinical Practice (SmartMedDev 2015), Lisbon, Portugal, January, 2015
463. Member of the Program Committee, 8<sup>th</sup> International Workshop on Information Filtering and Retrieval (DART 2014), Pisa, Italy, December, 2014
464. Member of the Program Committee, International Online Conference on Information Science and Management (ISM 2014), December, 2014
465. Member of the Program Committee, First International Afro-European Conference for Industrial Advancement (AECIA), Addis Ababa, Ethiopia, November, 2014
466. Member of the Program Committee, 5<sup>th</sup> Workshop on Applications for Multi-Core Architectures, Paris, France, October, 2014
467. Member of the Program Committee, IEEE Colloquium in Information Science and Technology (CIST'14), Tetuan, Morocco, October, 2014
468. Member of the Program Committee, 18<sup>th</sup> International Conference on System Theory, Control and Computing, Sinaia, Romania, October, 2014
469. Member of the Program Committee, 12<sup>th</sup> German Conference on Multi-Agent System Technologies (MATES), Stuttgart, Germany, September, 2014
470. Member of the Program Committee, DEXA 2014, Munich, Germany, September, 2014

471. Member of the Steering Committee, 8<sup>th</sup> International Symposium on Intelligent Distributed Computing (IDC'2014), Madrid, Spain, September, 2014
472. Member of the Program Committee, 18<sup>th</sup> International Conference on Knowledge-Based & Intelligent Information & Engineering Systems, Gdynia, Poland, September, 2014
473. Member of the Program Committee, The 2014 Multidisciplinary International Social Networks Conference, Kaohsiung, Taiwan, September, 2014
474. Member of the Program Committee, 20<sup>th</sup> International Conference on Information and Software Technologies (ICIST 2014), Kaunas, Lithuania, September, 2014
475. Member of the Program Committee, Workshop on Federated Future Internet and Distributed Cloud Testbeds 2014, Karlskrona, Sweden, September, 2014
476. Co-Chair, Federated Conference on Computer Science and Information Systems (FedCSIS'2014), Warsaw, Poland, September, 2014
477. Member of the Program Committee, 7<sup>th</sup> International Conference on Internet and Distributed Computing Systems (IDCS 2014), Calabria, Italy, September, 2014
478. Member of the Program Committee, Intelligent Systems IS'14, Warsaw, Poland, September, 2014
479. Co-Chair, 10<sup>th</sup> Workshop on Agent Based Computing: from Model to Implementation, (ABC:MI'14), Warsaw, Poland, September, 2014
480. Co-Chair, 3<sup>rd</sup> Workshop on Scalable Computing in Distributed Systems (SCoDiS'14), Warsaw, Poland, September, 2014
481. Co-chair, 8<sup>th</sup> Workshop on Large Scale Computing on Grids (LaSCoG 2014), Warsaw, Poland, September, 2014
482. Member of the Program Committee, 2014 International Conference on Adaptive and Intelligent Systems (ICAIS'14), Bournemouth, UK, September, 2014
483. Member of the Program Committee, IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), Beijing, China, August, 2014
484. Member of the Program Committee, International Workshop on Social Network Analysis and Mining using Digital Technology (SNAM-DT), Niagara Falls, Canada, August, 2014
485. Member of the Program Committee, 4<sup>th</sup> International Conference on Logistics, Informatics and Systems Science (LISS'2014), Berkeley, CA, July, 2014
486. Member of the Program Committee, Tenth International Conference on Digital Technologies (DT 2014), Zilina, Slovakia, July, 2014
487. Member of the Program Committee, 2014 IEEE International Symposium of Parallel Architectures, Algorithms and Programming (PAAP), Beijing, China, July, 2014
488. Member of the Program Committee, 2014 International Conference on Computational Science and its Applications (ICCSA 2014), Guimaraes, Portugal, June-July, 2014
489. Member of the Program Committee, 1<sup>st</sup> International Workshop on Developing and Applying Agent Frameworks, Hasselt, Belgium, June, 2014
490. Member of the Program Committee, 3<sup>rd</sup> International Conference on Cloud Computing and eGovernance (ICCEG2014), Saigon, Vietnam, June, 2014
491. Co-Chair, 4<sup>th</sup> Workshop on Applications of Software Agents (WASA), Thessaloniki, Greece, June, 2014
492. Member of the Program Committee, Ninth International Multi-Conference on Computing in the Global Information Technology, Seville, Spain, June, 2014
493. Member of the Program Committee, 9<sup>th</sup> International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2014), Bilbao, Spain, June, 2014

494. Member of the Program Committee, Multi-agent based Applications for Sustainable Energy Systems (MASGES), Salamanca, Spain, June, 2014
495. Member of the Program Committee, Third International Conference on Intelligent Systems and Applications, Seville, Spain, June, 2014
496. Member of the Program Committee, International Conference on Computational Science (ICCS 2014), Cairns, Australia, June, 2014
497. Member of the Program Committee, International Conference on Information Engineering, Management and Security, Hyderabad, India, May, 2014
498. Member of the Program Committee, The 5th International Workshop on Multi-Agent Systems and Collaborative Technologies (I-MASC 2014), Minneapolis, MN, May, 2014
499. Member of the Program Committee, 17<sup>th</sup> International Conference on Business Information Systems (BIS 2014), Larnaca, Cyprus, May, 2014
500. Member of the Program Committee, International Symposium on Real-time Natural User Interface and Natural User eXperience (RN2 2014), Zhangjiajie, China, May, 2014
501. Member of the Program Committee, 2014 International Symposium on Information and Communication Technology, Zhangjiajie, China, May, 2014
502. Member of the Program Committee, 8<sup>th</sup> International Symposium on Service-Oriented System Engineering (SOSE 2014), Oxford, UK, April, 2014
503. Member of the Program Committee, 10<sup>th</sup> International Conference on Web Information Systems and Technologies, Barcelona, Spain, April, 2014
504. Member of the Program Committee, 9<sup>th</sup> International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE), Lisbon, Portugal, April, 2014
505. Member of the Program Committee, 6<sup>th</sup> Asian Conference on Intelligent Information and Database Systems (ACIIDS 2014), Bangkok, Thailand, April, 2014
506. Member of the Program Committee, SMARTER EUROPE, Essen, Germany, February, 2014
507. Member of the Program Committee, Information Filtering and Retrieval: Novel Distributed Systems and Applications (DART 2013), Turin, Italy, December, 2013
508. Member of the Program Committee, 5<sup>th</sup> FTRA International Conference on Computer Science and its Applications (CSA-13), Danang, Vietnam, December, 2013
509. Member of the Program Committee, International Symposium on Ubiquitous Computing and Embedded Systems (UCES-13), Danang, Vietnam, December, 2013
510. Member of the Program Committee, 13<sup>th</sup> IEEE International Conference on Computer and Information Technology, Sydney, Australia, December, 2013
511. Member of the Program Committee, First International Conference on Innovative Trends in Electronics Communication and Applications (ICIECA), Puducherry, India, December, 2013
512. Member of the Program Committee, Thirteen International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2013), Taipei, Taiwan, December, 2013
513. Member of the Program Committee, Software Engineering and Security of Systems (SoftSec 2013), Szczecin, Poland, November, 2013
514. Co-Chair, 3<sup>rd</sup> Workshop on Applications of Software Agents (WASA), Sinaia, Romania, October, 2013
515. Member of the Program Committee, 17<sup>th</sup> International Conference on System Theory, Control and Computing, Sinaia, Romania, October, 2013

516. Member of the Program Committee, 4<sup>th</sup> International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN-2013), Niagara Falls, Canada, October, 2013
517. Member of the Program Committee, The International Conference on Management of Emergent Digital EcoSystems (MEDES), Luxembourg, Luxembourg, October, 2013
518. Member of the Program Committee, Fifth International Workshop on Multi-Agent Systems Technology and Semantics (MASTS 2013), Prague, Czech Republic, September, 2013
519. Co-chair, 11<sup>th</sup> German Conference on Multi-Agent System Technologies (MATES), Koblenz, Germany, September, 2013
520. Co-chair, Joint Agent Workshops in Synergy (JAWS), Koblenz, Germany, September, 2013
521. Member of the Program Committee, Conference on Internet Technologies and Applications (ITA 13), Wrexham, UK, September, 2013
522. Member of the Program Committee, Congress of Young IT Scientists, Szczecin, Poland, September, 2013
523. Member of the Program Committee, 17<sup>th</sup> International Conference on Knowledge-Based & Intelligent Information & Engineering Systems, Kitakyushu, Japan, September, 2013
524. Member of the Program Committee, Information Technologies (IT 2013), Kaunas, Lithuania, September, 2013
525. Member of the Steering Committee, 7<sup>th</sup> International Symposium on Intelligent Distributed Computing, IDC'2013, Prague, Czech Republic, September, 2013
526. Member of the Program Committee, 8<sup>th</sup> International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2013), Salamanca, Spain, September, 2013
527. Member of the Program Committee, Tenth International Conference on Parallel Processing and Applied Mathematics (PPAM 2013), Warsaw, Poland, September, 2013
528. Co-Chair, Federated Conference on Computer Science and Information Systems, Kraków, Poland, September, 2013
529. Member of the Program Committee, Second International Conference on Agreement Technologies (AT 2013), Beijing, China, August, 2013
530. Member of the Program Committee, IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), Niagara Falls, Canada, August, 2013
531. Member of the Program Committee, DEXA 2013, Prague, Czech Republic, August, 2013
532. Member of the Program Committee, Eights International Multi-Conference on Computing in the Global Information Technology, Venice, Italy, July, 2013
533. Member of the Program Committee, 8<sup>th</sup> International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE), Eseo, France, July, 2013
534. Member of the Program Committee, International Conference on Computational Science (ICCS 2013), Barcelona, Spain, June, 2013
535. Member of the Program Committee, 9<sup>th</sup> International Conference on Large-Scale Scientific Computations, Sozopol, Bulgaria, June, 2013
536. Member of the Program Committee, 2013 International Conference on Computational Science and its Applications (ICCSA 2013), Ho Chi Min City, Vietnam, June-July, 2013
537. Member of the Program Committee, 2<sup>nd</sup> International Conference on Cloud Computing and eGovernance (ICCCEG2013), Dubai, UAE, June, 2013
538. Member of the Program Committee, 16<sup>th</sup> International Conference on Business Information Systems (BIS 2013), Poznan, Poland, June, 2013

539. Member of the Program Committee, 6<sup>th</sup> International Conference on Information Technology, Amman, Jordan, May, 2013
540. Member of the Program Committee, Multi-agent based Applications for Sustainable Energy Systems (MASGES), Salamanca, Spain, May, 2013
541. Member of the Program Committee, International Workshop on Agent Technology for Ambient Intelligence, Bucharest, Romania, May, 2013
542. Member of the Program Committee, 8<sup>th</sup> International Conference on Grid and Pervasive Computing (GPC 2013), Seoul, Korea, May 2013
543. Member of the Program Committee, First International Conference on Intelligent Systems and Applications (INTELLI), Venice, Italy, April, 2013
544. Member of the Program Committee, Third International Conference on Parallel, Distributed, Grid and Cloud Computing for Engineering (PARENG 2013), Pecs, Hungary, March, 2013
545. Member of the Program Committee, 5<sup>th</sup> Asian Conference on Intelligent Information and Database Systems (ACIIDS 2013), Kuala Lumpur, Malaysia, March, 2013
546. Member of the Program Committee, International Conference on Human Machine Interaction (HMI2013), Chennai, India, March, 2013
547. Member of the Program Committee, 21<sup>st</sup> Euromicro Conference on Parallel, Distributed and Network based Processing, Belfast, Northern Ireland, February-March, 2013
548. Member of the Program Committee, Thirteen International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2012), Beijing, China, December, 2012
549. Member of the Program Committee, 2012 Conference on Grid and Distributed Computing, Kangwondo, Korea, December 2012\*
550. Member of the Program Committee, 2012 IEEE International Symposium of Parallel Architectures, Algorithms and Programming, Taipei, Taiwan, December, 2012
551. Member of the Program Committee, 17<sup>th</sup> Online World Conference on Soft Computing in Industrial Applications (WSC17), December, 2012
552. Member of the Program Committee, The International Conference on Management of Emergent Digital EcoSystems (MEDES), Addis Ababa, Ethiopia, October, 2012
553. Member of the Program Committee, IEEE Colloquium in Information Science and Technology (CIST'12), Fez, Morocco, October, 2012
554. Member of the Program Committee, Tenth German Conference on Multi-Agent System Technologies (MATES), Trier, Germany, October, 2012
555. Member of the Program Committee, Information Filtering and Retrieval: Novel Distributed Systems and Applications - DART 2012, Barcelona, Spain, October, 2012
556. Member of the Program Committee, First International Conference on Agreement Technologies (AT 2012), Dubrovnik, Croatia, October, 2012
557. Member of the Program Committee, Fourth International Workshop on Multi-Agent Systems Technology and Semantics (MASTS 2012), Calabria, Italy, September, 2012
558. Member of the Steering Committee, 6<sup>th</sup> International Symposium on Intelligent Distributed Computing, IDC'2012, Calabria, Italy, September, 2012
559. Member of the Program Committee, Agents for Cloud Workshop, Calabria, Italy, September, 2012
560. Member of the Program Committee, 3<sup>rd</sup> International Conference on Innovations in Bio-Inspired Computing and Applications (IBICA 2012), Kaohsiung City, Taiwan, September, 2012

561. Co-Chair, Federated Conference on Computer Science and Information Systems, Wrocław, Poland, September, 2012
562. Co-Chair, Workshop on Agent Based Computing: from Model to Implementation (ABC:MI), Wrocław, Poland, September, 2012
563. Member of the Program Committee, 2<sup>nd</sup> Workshop on Modeling Multi-commodity Trade: Data Models and Processing, Poznan, Poland, September, 2012
564. Member of the Program Committee, 7<sup>th</sup> International Conference on Soft Computing Models in Industrial and Environmental Applications, Ostrawa, Czech Republic, September, 2012
565. Co-Chair, 2<sup>nd</sup> Workshop on Applications of Software Agents (WASA), Novi Sad, Serbia, September, 2012
566. Member of the Program Committee, 5<sup>th</sup> Balkan Conference in Informatics, Novi Sad, Serbia, September, 2012
567. Member of the Program Committee, DEXA 2012, Vienna, Austria, September, 2012
568. Member of the Program Committee, Information Technologies (IT 2012), Kaunas, Lithuania, September, 2012
569. Member of the Program Committee, IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), Istanbul, Turkey, August, 2012
570. Member of the Program Committee, Second International Symposium on Business Modeling and Software Design, Geneva, Switzerland, July, 2012
571. Member of the Program Committee, 2<sup>nd</sup> International Conference on Logistics, Informatics and Service Science, Beijing, China, July, 2012
572. Member of the Program Committee, IADIS International Conference Theory and Practice in Modern Computing, Lisbon, Portugal, July, 2012
573. Member of the Program Committee, Workshop on Semantic Web/Grid Information and Services Discovery and Management (SWISM 2012), Palermo, Italy, July, 2012
574. Member of the Program Committee, International Conference on Enterprise Information Systems (ICEIS'2012), Wrocław, Poland, June-July, 2012
575. Member of the Program Committee, Seventh International Multi-Conference on Computing in the Global Information Technology, Venice, Italy, June, 2012
576. Member of the Program Committee, International Conference on Web Intelligence, Mining and Semantics (WIMS'12), Craiova, Romania, June, 2012
577. Member of the Program Committee, 7<sup>th</sup> FTRA International Conference on Future Information Technology (FutureTech 2012), Vancouver, Canada, June, 2012
578. Member of the Program Committee, 7<sup>th</sup> International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE), Wrocław, Poland, June, 2012
579. Member of the Program Committee, International Conference on Computational Science (ICCS 2012), Omaha, Nebraska, USA, June, 2012
580. Member of the Program Committee, ACS 2012 Multi-Conference, Międzyzdroje, Poland, May-June, 2012
581. Member of the Program Committee, 7<sup>th</sup> International Conference on Grid and Pervasive Computing (GPC 2012), Hong Kong, China, May 2012
582. Member of the Program Committee, 15<sup>th</sup> International Conference on Business Information Systems (BIS 2012), Vilnius, Lithuania, May, 2012
583. Member of the Program Committee, First International Conference on Intelligent Systems and Applications (INTELLI), April-May, 2012, Chamonix, France

584. Member of the Program Committee, Workshop on Agents and Multi-agent systems for Enterprise Integration (ZOCO 2012), Salamanca, Spain, March, 2012
585. Member of the Program Committee, 4th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2012), Kaohsiung, Taiwan, March, 2012
586. Member of the Program Committee, 20th Euromicro Conference on Parallel, Distributed and Network based Processing, Garching, Germany, February, 2012
587. Member of the Program Committee, International Conference on Computer Applications (ICCA '12), Pondicherry, India, January, 2012
588. Member of the Program Committee, 2011 Symposium on Grid and Distributed Computing (GDC 2011), Jeju Island, Korea, December, 2011
589. Member of the Program Committee, IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS 2011), Dallas, TX, December, 2011
590. Member of the Program Committee, The International Conference on Management of Emergent Digital EcoSystems (MEDES), San Francisco, CA, November, 2011
591. Member of the Program Committee, 16<sup>th</sup> Online World Conference on Soft Computing in Industrial Applications (WSC16), November, 2011
592. Member of the Program Committee, 11<sup>th</sup> International Conference on Intelligent Systems Design and Applications (ISDA'11), Cordoba, Spain, November, 2011
593. Member of the Program Committee, 2011 IEEE ICEBE Conference, Beijing, China, October, 2011
594. Member of the Program Committee, International Conference on Advanced Computing and Applications, Ho Chi Minh City, Vietnam, October, 2011
595. Member of the Program Committee, Ninth German Conference on Multi-Agent System Technologies (MATES), Berlin, Germany, October, 2011
596. Member of the Program Committee, Third International Workshop on Multi-Agent Systems Technology and Semantics (MASTS 2011), Delft, Netherlands, October, 2011
597. Member of the Steering Committee, 5<sup>th</sup> International Symposium on Intelligent Distributed Computing, IDC'2011, Delft, Netherlands, October, 2011
598. Member of the Program Committee, Special Session on Software Technologies for Intelligent Collaborative Systems (STIX), Sinaia, Romania, October, 2011
599. Member of the Program Committee, 13th International Workshop on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC11), Timisoara, Romania, September, 2011
600. Member of the Program Committee, Information Filtering and Retrieval: Novel Distributed Systems and Applications - DART 2011, Palermo, Italy, September, 2011
601. Member of the Program Committee, 8th Workshop on Agents for Complex Systems, Timisoara, Romania, September, 2011
602. Co-Chair, Federated Conference on Computer Science and Information Systems, Szczecin, Poland, September, 2011
603. Co-Chair, Workshop on Agent Based Computing: from Model to Implementation, Szczecin, Poland, September, 2011
604. Co-chair, 7<sup>th</sup> Workshop on Large Scale Computing on Grids (LaSCoG 2011), Szczecin, Poland, September, 2011
605. Co-chair, Agent-Based Computing: from Model to Implementation VIII (ABC:MI'11), Szczecin, Poland, September, 2011
606. Member of the Program Committee, The 2nd International Conference on Ambient Systems, Networks and Technologies, Niagara Falls, Canada, September, 2011

607. Member of the Program Committee, Conference on Internet Technologies and Applications (ITA 11), Wrexham, UK, September, 2011
608. Member of the Program Committee, 5<sup>th</sup> International Workshop on New Challenges in Distributed Information Filtering and Retrieval, Palermo, Italy, September, 2011
609. Member of the Program Committee, Ninths International Conference on Parallel Processing and Applied Mathematics (PPAM 2011), Toruń, Poland, September, 2011
610. Member of the Program Committee, DEXA 2011, Toulouse, France, August-September, 2011
611. Member of the Program Committee, 2011 International Conference on Adaptive and Intelligent Systems (ICAIS'11), Klagenfurt, Austria, September, 2011
612. Member of the Program Committee, 11th IEEE International Conference on Computer and Information Technology, Paphos, Cyprus, August-September, 2011
613. Member of the Program Committee, First International Symposium on Business Modeling and Software Design, Sofia, Bulgaria, July, 2011
614. Co-Chair, Workshop on Applications of Software Agents (WASA), Novi Sad, Serbia, July, 2011
615. Member of the Program Committee, Workshop on Semantic Web/Grid Information and Services Discovery and Management (SWISM 2011), Seoul, Korea, June-July, 2011
616. Member of the Program Committee, 8<sup>th</sup> International Conference on "Large-Scale Scientific Computation," Sozopol, Bulgaria, June, 2011
617. Member of the Program Committee, International Conference on Computational Science 2011 (ICCS 2011), Singapore, Singapore, June, 2011
618. Member of the Program Committee, 14<sup>th</sup> International Conference on Business Information Systems (BIS 2011), Poznan, Poland, June, 2011
619. Member of the Program Committee, International Conference on Enterprise Information Systems (ICEIS'2011), Beijing, China, June, 2011
620. Member of the Program Committee, 1<sup>st</sup> International Conference on Logistics, Informatics and Systems Science (LISS'2011), Beijing, China, June, 2011
621. Member of the Program Committee, 2011 International Conference on Computational Science and its Applications (ICCSA 2011), Santander, Spain, June, 2011
622. Member of the Program Committee, 6th International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE), Beijing, China, June, 2011
623. Member of the Program Committee, 2011 International Workshop on Ubiquitous Healthcare and Application, Busan, Korea, May, 2011
624. Member of the Program Committee, 5<sup>th</sup> International Conference on Information Technology, Amman, Jordan, May, 2011
625. Member of the Program Committee, IEEE EuroCon 2011, Lisbon, Portugal, April, 2011
626. Member of the Program Committee, 3rd Asian Conference on Intelligent Information and Database Systems (ACIIDS 2011), Daegu, Korea, April, 2011
627. Member of the Program Committee, First International Conference on Parallel, Distributed and Grid Computing for Engineering, Ajaccio, France, April, 2011
628. Member of the Program Committee, Information Technologies (IT 2011), Kaunas, Lithuania, April, 2011
629. Member of the Program Committee, 25<sup>rd</sup> IEEE International Conference on Advanced Information Networking and Applications (AINA-11), Singapore, March, 2011

630. Member of the Program Committee, 19<sup>th</sup> Euromicro Conference on Parallel, Distributed and Network based Processing, Aiya Napa, Cyprus, February, 2011
631. Member of the Program Committee, 10<sup>th</sup> IASTED International Conference on Parallel and Distributed Computing and Networks (PDCN 2011), Innsbruck, Austria, February, 2011
632. Member of the Program Committee, 5<sup>th</sup> International ICST Conference on Bio-Inspired Models of Network, Information, and Computing Systems (BIONETICS'2010), Boston, MA, December, 2010
633. Member of the Program Committee, FTRA 2010 international Workshop on U-Healthcare Technologies and Services (U-Healthcare 2010), Gwangju, Korea, December, 2010
634. Member of the Advisory Committee, 10<sup>th</sup> International Conference on Intelligent Systems Design and Applications (ISDA'10), Cairo, Egypt, November-December, 2010
635. Member of the Program Committee, 2010 IEEE ICEBE Conference, Shanghai, China, November, 2010
636. Member of the Program Committee, 2010 Symposium on Grid and Distributed Computing (GDC 2010), Cebu City, Philippines, November, 2010
637. Member of the Program Committee, 15<sup>th</sup> Online World Conference on Soft Computing in Industrial Applications (WSC15), November, 2010
638. Member of the Program Committee, The International Conference on Management of Emergent Digital EcoSystems (MEDES), Bangkok, Thailand, October, 2010
639. Co-chair, 6<sup>th</sup> Workshop on Large Scale Computing on Grids (LaSCoG 2010), Wisła, Poland, October, 2010
640. Co-chair, Agent-Based Computing VII (ABC'10), Wisła, Poland, October, 2010
641. Co-chair, 2010 International Multiconference on Computer Science and Information Technology, Wisła, Poland, October, 2010
642. Member of the Steering Committee, 4<sup>th</sup> International Symposium on Intelligent Distributed Computing, IDC'2010, Tangier, Morocco, September, 2010
643. Member of the Program Committee, Seventh German Conference on Multi-Agent System Technologies (MATES), Hamburg, Germany, September, 2010
644. Member of the Program Committee, 12<sup>th</sup> International Workshop on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC10), Timisoara, Romania, September, 2010
645. Member of the Program Committee, 7<sup>th</sup> Workshop on Agents for Complex Systems, Timisoara, Romania, September, 2010
646. Member of the Program Committee, DEXA 2010, Bilbao, Spain, August-September, 2010
647. Member of the Program Committee, 2010 IEEE International Symposium on Parallel and Distributed Processing with Applications (ISPA), Taipei, Taiwan, August, 2010
648. Member of the Program Committee, The 3<sup>rd</sup> International Conference on Human-centric Computing (HumanCom-10), Cebu, Philippines, August, 2010
649. Member of the Program Committee, 10<sup>th</sup> International Conference on Hybrid Intelligent Systems (HIS'10), Atlanta, GA, August, 2010
650. Member of the Program Committee, IEEE International Conference on Information Reuse and Integration 2010 (IRI10), Las Vegas, NV, August, 2010
651. Member of the Program Committee, First International Workshop on Service-Oriented Computing and Multi-Agent Systems, Miami, FL, July, 2010
652. Member of the Student Track Program Committee, The South Eastern European Multi-Agent Systems Summer School Bucharest, Romania, July, 2010

653. Member of the Program Committee, 9th International Symposium on Parallel and Distributed Computing (ISPDC'10), Istanbul, Turkey, July, 2010
654. Member of the Program Committee, 5th International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE), Piraeus, Greece, July, 2010
655. Member of the Program Committee, International Conference on Enterprise Information Systems (ICEIS'2010), Funchal, Portugal, June, 2010
656. Member of the Program Committee, International Conference on Computational Science 2010 (ICCS 2010), Amsterdam, Netherlands, May-June, 2010
657. Member of the Program Committee, First Workshop on Infrastructures and Tools for Multiagent Systems (ITMAS), Toronto, Canada, May, 2010
658. Member of the Program Committee, Service-Oriented Computing: Agents, Semantics, And Engineering (SOCASE), Toronto, Canada, May, 2010
659. Member of the Program Committee, 13<sup>th</sup> International Conference on Business Information Systems (BIS 2010), Berlin, Germany, May, 2010
660. Member of the Advisory Committee, Second Russia-Taiwan symposium on Methods and Tools of Parallel Programming of Multicomputers (MTPP-2010), Vladivostok, Russia, May, 2010
661. Member of the Program Committee, Information Technologies 2010 (IT 2010), Kaunas, Lithuania, April, 2010
662. Member of the Program Committee, International Conference on Advanced Computing and Applications, Ho Chi Minh City, Vietnam, March, 2010
663. Member of the Program Committee, 7th International Conference on Informatics and Systems (INFOS2010), Cairo, Egypt, March, 2010
664. Member of the Program Committee, 2<sup>nd</sup> Asian Conference on Intelligent Information and Database Systems – ACIIDS 2010, Hue City, Vietnam, March, 2010
665. Member of the Program Committee, 2010 International Conference on Computational Science and Its Applications (ICCSA 2010), Fukuoka, Japan, March, 2010
666. Member of the Program Committee, 18<sup>th</sup> Euromicro Conference on Parallel, Distributed and Network based Processing, Pisa, Italy, February, 2010
667. Member of the Program Committee, Workshop on Semantic Web/Grid Information and Services Discovery and Management (SWISM 2010), Krakow, Poland, February, 2010
668. Member of the Program Committee, IASTED International Conference on Parallel and Distributed Computing and Networks (PDCN 2010), Innsbruck, Austria, February, 2010
669. Member of the Program Committee, Ninth International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2009), Hiroshima, Japan, December, 2009
670. The 8<sup>th</sup> International Conference on Pervasive Intelligence and Computing, Chengdu, China, December 2009
671. Member of the Program Committee, 2009 Symposium on Grid and Distributed Computing (GDC 2009), Jeju Island, Korea, December, 2009
672. Member of the Steering Committee, 9<sup>th</sup> International Conference on Intelligent Systems Design and Applications (ISDA'09), Pisa, Italy, November, 2009
673. Member of the Program Committee, 14<sup>th</sup> Online World Conference on Soft Computing in Industrial Applications (WSC14), November, 2009
674. Member of the Program Committee, Grid Computing, High-performance and Distributed Applications (GADA'09), Monterrey, Mexico, November, 2009

675. Member of the Program Committee, International Conference on Knowledge Intensive Multi-Agent Systems, St Louis, MO, October, 2009
676. Member of the Program Committee, 2009 IEEE ICEBE Conference, Macau, China, October, 2009
677. Member of the Steering Committee, International Symposium on Intelligent and Distributed Computing - IDC'2009, Aiya Napa, Cyprus, October, 2009
678. Member of the Program Committee, International Conference on Management of e-Commerce and e-Government (ICMeCG2009), Nanchang, China, October, 2009
679. Co-organizer, Agent-Based Computing VI (ABC'09), Wisła, Poland, October, 2009
680. Member of the Organizing Committee, 2009 International Multiconference on Computer Science and Information Technology, Wisła, Poland, October, 2009
681. Member of the Program Committee, Seventh German Conference on Multi-Agent System Technologies (MATES), Hamburg, Germany, September, 2009
682. Member of the Program Committee, Workshop on Nature Inspired Methods In Knowledge Based Systems, Santiago, Chile, September, 2009
683. Member of the Program Committee, 11<sup>th</sup> International Workshop on Symbolic and Numeric Algorithms for Scientific Computing (SYNASCO9), Timisoara, Romania, September, 2009
684. Co-organizer, Workshop on Large Scale Computations on Grids (LaSCoG'2009), Wrocław, Poland, September, 2009
685. Member of the Program Committee, Sejmik Młodych Informatyków, Międzyzdroje, Poland, September, 2009
686. Member of the Program Committee, Eighth International Conference on Parallel Processing and Applied Mathematics (PPAM 2009), Wrocław, Poland, September, 2009
687. Member of the Program Committee, 1<sup>st</sup> International Conference on Adaptive and Intelligent Systems (ICAIS'09), Klagenfurt, Austria, September, 2009
688. Member of the Program Committee, Conference on Internet Technologies and Applications (ITA 09), Wrexham, UK, September, 2009
689. Member of the Program Committee, 3<sup>rd</sup> Austrian Grid Symposium, Linz, Austria, September, 2009
690. Member of the Program Committee, DEXA 2009, Linz, Austria, August-September, 2009
691. Member of the Program Committee, The 2009 IEEE International Symposium on Parallel and Distributed Processing with Applications (ISPA), Chengdu, China, August, 2009
692. Member of the Program Committee, IEEE International Conference on Information Reuse and Integration 2009 (IRI09), Las Vegas, NV, August, 2009
693. Member of the Program Committee, 2009 International Conference on Computational Science and Its Applications (ICCSA 2009), Seoul, Korea, June-July, 2009
694. Member of the Program Committee, 8<sup>th</sup> International Symposium on Parallel and Distributed Computing (ISPDC'09), Lisbon, Portugal, June-July, 2009
695. Member of the Program Committee, 9<sup>th</sup> International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP 2009), Taipei, Taiwan, June, 2009
696. Member of the Organizing Committee, Workshop/Summer school on Algorithms and Techniques for Scheduling on Clusters and Grids (ASTEC 2009), Centre CNRS "Les Plantiers," France, June, 2009
697. Member of the Program Committee, 7th International Conference on "Large-Scale Scientific Computation," Sozopol, Bulgaria, June, 2009

698. Member of the Program Committee, International Conference on Computational Science 2009 (ICCS 2009), Baton Rouge, LA, May, 2009
699. Member of the Program Committee, 23<sup>rd</sup> IEEE International Conference on Advanced Information Networking and Applications (AINA-09), Bradford, UK, May, 2009
700. Member of the Program Committee, International Conference on Enterprise Information Systems (ICEIS'2009), Milan, Italy, May, 2009
701. Member of the Program Committee, 4<sup>th</sup> International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE), Milan, Italy, May, 2009
702. Member of the Program Committee, 4<sup>th</sup> International Conference on Grid and Pervasive Computing, Genève, Switzerland, May, 2009
703. Member of the Program Committee, First International Conference on Parallel, Distributed and Grid Computing for Engineering, Pecs, Hungary, April, 2009
704. Member of the Program Committee, 1<sup>st</sup> Asian Conference on Intelligent Information and Database Systems – ACIIDS 2009, Quang Binh, Vietnam, April, 2009
705. Member of the Program Committee, Workshop on Social Aspects of the Web (SAW 2009), Poznań, Poland, April, 2009
706. Member of the Program Committee, 12<sup>th</sup> International Conference on Business Information Systems (BIS 2009), Poznań, Poland, April, 2009
707. Member of the Program Committee, International Conference on Complex, Intelligent and Software Intensive Systems (CISIS 2009), Fukuoka, Japan, March, 2009
708. Member of the Program Committee, 4<sup>th</sup> Int. Conf. on Intelligent Computing and Information Systems, Cairo, Egypt, March, 2009
709. Member of the Program Committee, 2<sup>nd</sup> International Conference on Business Process and Services Computing (BPSC 2009), Leipzig, Germany, March, 2009
710. Member of the Program Committee, 17<sup>th</sup> Euromicro Conference on Parallel, Distributed and Network based Processing, Weimar, Germany, February, 2009
711. Member of the Program Committee, 2008 IEEE International Symposium on Parallel and Processing and Applications (ISPA'08), Sydney, Australia, December, 2008
712. Member of the Program Committee, Eighth International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2008), Dunedin, New Zealand, December, 2008
713. Member of the Program Committee, Grid Computing, High-performance and Distributed Applications (GADA'08), Monterrey, Mexico, November, 2008
714. Member of the Program Committee, 7<sup>th</sup> International Conference on Intelligent Systems Design and Applications (ISDA'08), Kaohsiung, Taiwan, November, 2008
715. Member of the Program Committee, 2008 IEEE ICEBE Conference, X'ian, China, October, 2008
716. Member of the Program Committee, 23<sup>rd</sup> International Symposium on Computer and Information Sciences (ISCIS2008), Istanbul, Turkey, October, 2008
717. Member of the Program Committee, International Conference on Management of e-Commerce and e-Government (ICMeCG2008), Nanchang, China, October, 2008
718. Member of the Program Committee, Fifth IEEE International Conference on Soft Computing as Transdisciplinary Science and Technology (CSTST'08), Paris, France, October, 2008
719. Co-organizer, 4<sup>th</sup> Workshop on Large Scale Computing on Grids (LaSCoG 2008), Wisła, Poland, October, 2008

720. Co-organizer, Agent-Based Computing V (ABC'08), Wisła, Poland, October, 2008
721. Co-organizer, 2008 International Multiconference on Computer Science and Information Technology, Wisła, Poland, October, 2008
722. Member of the Program Committee, XXIII Fall Meeting of the Polish Information Processing Society, Wisła, Poland, October, 2008
723. Member of the Program Committee, 10<sup>th</sup> International Workshop on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC08), Timisoara, Romania, September, 2008
724. Member of the Program Committee, Sixth International Conference on Applied Mathematics (ICAM6), Baia Mare, Romania, September, 2008
725. Member of the Program Committee, 8<sup>th</sup> International Conference on Hybrid Intelligent Systems (HIS'08), Barcelona, Spain, September, 2008
726. Member of the Steering Committee, International Symposium on Intelligent and Distributed Computing - IDC'2007, Catania, Italy, September, 2008
727. Member of the Program Committee, IEEE International Conference on Information Reuse and Integration 2008 (IRI08), Las Vegas, NV, July, 2008
728. Member of the Program Committee, International Conference on Computational Science and Applications (ICCSAC 2008), Perugia, Italy, July, 2008
729. Member of the Program Committee, 7<sup>th</sup> International Symposium on Parallel and Distributed Computing (ISPDC'08), Kraków, Poland, July, 2008
730. Member of the Program Committee, International Conference on Computational and Mathematical Methods in Science and Engineering (CMMSE 2008), La Manga del Mar Menor, Spain, June, 2008
731. Co-organizer, Workshop on Grid and Scientific and Engineering Applications (Grid&SEA), Sozopol, Bulgaria, June, 2008
732. Member of the Program Committee, 8<sup>th</sup> International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP 2008), Ayia Napa, Cyprus, June, 2008
733. Member of the Program Committee, 34<sup>th</sup> International Conference "Applications of Mathematics in Engineering and Economics" (AMEE'08), Sozopol, Bulgaria, June, 2008
734. Member of the Program Committee, Session on Adaptive Networked Systems and Media, Wroclaw, Poland, June, 2008
735. Member of the Program Committee, 8<sup>th</sup> International Conference on Algorithms and Architectures for Parallel Processing, Ayia Napa, Cyprus, June, 2008
736. Member of the Program Committee, 10<sup>th</sup> International Conference on Enterprise Information Systems, Barcelona, Spain, June, 2008
737. Member of the Program Committee, International Conference on Computational Science (ICCS 2008), Kraków, Poland, June, 2008
738. Member of the Program Committee, Information Technologies 2008' (IT 2008), Kaunas, Lithuania, April, 2008
739. Member of the Program Committee, Workshop on Social Aspects of the Web (SAW 2008), Innsbruck, Austria, April, 2008
740. Member of the Program Committee, 11<sup>th</sup> International Conference on Business Information Systems (BIS 2008), Innsbruck, Austria, April, 2008
741. Member of the Program Committee, 41<sup>st</sup> Annual Simulation Symposium (ANSS'2008), Ottawa, Canada, April, 2008

742. Member of the Program Committee, First International Workshop on MOBILE and DIStributed approaches in Emergency Scenarios (MODIES), Tampere, Finland, January, 2008
743. Member of the Program Committee, 3<sup>rd</sup> IFIP International Symposium on Network Centric Ubiquitous Systems (NCUS 2007), Taipei, Taiwan, December, 2007
744. Member of the Program Committee, Eight International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2007), Adelaide, Australia, December, 2007
745. Member of the Program Committee, International Conference on Parallel and Distributed Systems (ICPADS'2007), Hsinchu, Taiwan, December, 2007
746. Member of the Program Committee, Eight International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2007), Adelaide, Australia, December, 2007
747. Member of the Program Committee, 22<sup>nd</sup> International Symposium on Computer and Information Sciences, Ankara, Turkey, November, 2007
748. Member of the Program Committee, IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS 2007), Cambridge, MA, November, 2007
749. Member of the Program Committee, 3<sup>rd</sup> Language & Technology Conference, Poznań, Poland, October, 2007
750. Co-organizer, Agent-Based Computing IV (ABC'07), Wisła, Poland, October, 2007
751. Member of the Organizing Committee, 2007 International Multiconference on Computer Science and Information Technology, Wisła, Poland, October, 2007
752. Member of the Program Committee, XXII Fall Meeting of the Polish Information Processing Society, Wisła, Poland, October, 2007
753. Co-Chair, International Symposium on Intelligent and Distributed Computing (IDC'2007), Craiova, Romania, October, 2007
754. Member of the Program Committee, 7<sup>th</sup> International Conference on Intelligent Systems Design and Applications (ISDA'07), Rio de Janeiro, Brazil, October, 2007
755. Member of the Program Committee, Grid Computing, High-performance and Distributed Applications (GADA'07), Iberian Peninsula, Spain, October, 2007
756. Member of the Program Committee, 3<sup>rd</sup> IEEE ICEBE Conference, Hong Kong, China, October, 2007
757. Member of the Program Committee, Workshop on Java for Mobility (Ja4Mo), Lisbon, Portugal, September, 2007
758. Member of the Program Committee, 4<sup>th</sup> Workshop on Agents for Complex Systems, Timisoara, Romania, September, 2007
759. Member of the Program Committee, 9<sup>th</sup> International Workshop on Symbolic and Numeric Algorithms for Scientific Computing (SYNASCO7), Timisoara, Romania, September, 2007
760. Member of the Program Committee, 7<sup>th</sup> International Conference on Hybrid Intelligent Systems (HIS'07), and 5<sup>th</sup> Conference on Neuro-Computing and Evolving Intelligence (NCEI'06), Kaiserslautern, Germany, September, 2007
761. Member of the Program Committee, 8<sup>th</sup> IEEE/ACM International Conference on Grid Computing (Grid 2007), Austin, TX, September, 2007
762. Member of the Program Committee, 1<sup>st</sup> International Conference on Business Process and Services Computing (BPSC 2007), Leipzig, Germany, September, 2007

763. Member of the Program Committee, First Russia-Taiwan symposium on Methods and Tools of Parallel Programming of Multicomputers (MTPP-2007), Pereslavl-Zalessky, Russia, September, 2007
764. Member of the Program Committee, Recommender Agents and Adaptive Web-based Systems, Vietri sul Mare, Italy, September, 2007
765. Member of the Program Committee, 4<sup>th</sup> International Conference on Grid Service Engineering and Management (GSEM 2007), Leipzig, Germany, September, 2007
766. Publications Chair, IEEE Cluster 2007, Austin, TX, September, 2007
767. Co-organizer, Workshop on Large Scale Computations on Grids (LaSCoG'2007), Gdańsk, Poland, September, 2007
768. Member of the Program Committee, Seventh International Conference on Parallel Processing and Applied Mathematics (PPAM 2007), Gdańsk, Poland, September, 2007
769. Member of the Program Committee, Second International Workshop on Semantic and Grid Computing (SGC-07), Niagara Falls, Canada, September, 2007
770. Member of the Program Committee, International Conference on Computational Science and Applications (ICCSAC 2007), Kuala Lumpur, Malaysia, August, 2007
771. Member of the Program Committee, Conference on Complex Open Distributed Systems (CODS'2007), Chengdu, China, July, 2007
772. Member of the Program Committee, 8<sup>th</sup> International Conference on Natural Computing, Salt Lake City, UT, July, 2007
773. Member of the Program Committee, 33<sup>rd</sup> International Conference "Applications of Mathematics in Engineering and Economics" (AMEE'07), Sozopol, Bulgaria, June, 2007
774. Member of the Program Committee, International Workshop on Ubiquitous and Decentralized User Modeling (UbiDeUM'2007), Corfu, Greece, June, 2007
775. Member of the Program Committee, 7<sup>th</sup> International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP 2007), Hangzhou, China, June, 2007
776. Member of the Program Committee, 9<sup>th</sup> International Conference on Enterprise Information Systems, Funchal, Portugal, June, 2007
777. Member of the Program Committee, 1<sup>st</sup> KES International Symposium on Agent and Multi-agent Systems – Technologies and Applications (KES-AMSTA-07), Wrocław, Poland, May-June, 2007
778. Member of the Program Committee, International Conference on Computational Science (ICCS 2007), Beijing, China, May, 2007
779. Member of the Program Committee, 2<sup>nd</sup> International Conference on Grid and Pervasive Computing, Paris, France, May, 2007
780. Member of the Program Committee, Workshop on Social Aspects of the Web (SAW 2007), Poznań, Poland, April, 2007
781. Member of the Program Committee, 10<sup>th</sup> International Conference on Business Information Systems (BIS 2007), Poznań, Poland, April, 2007
782. Co-chair, Special Track on Agents, Interactions, Mobility, and Systems (AIMS), during the 22nd ACM Symposium on Applied Computing (SAC 2007), Seoul, South Korea, March, 2007
783. Member of the Program Committee, Information and Communication Technologies International Symposium (ICTIS'2007), Fez, Morocco, March, 2007
784. Member of the Program Committee, IEEE International Parallel and Distributed Processing Symposium Long Beach, CA, March, 2007

785. Member of the Program Committee, 40<sup>th</sup> Annual Simulation Symposium (ANSS'2007), Norfolk, VA, March, 2007
786. Member of the Program Committee, 15<sup>th</sup> Euromicro Conference on Parallel, Distributed and Network based Processing, Naples, Italy, February, 2007
787. Member of the Program Committee, 6<sup>th</sup> International Conference on Hybrid Intelligent Systems (HIS'06), and 4<sup>th</sup> Conference on Neuro-Computing and Evolving Intelligence (NCEI'06), Auckland, New Zealand, December, 2006
788. Member of the Program Committee, HiPC, Bangalore, India, December, 2006
789. Vice-Chair, Seventh International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2006), Taipei, Taiwan, December, 2006
790. Member of the Program Committee, Fourth International Symposium on Parallel and Processing and Applications (ISPA'06), Sorrento, Italy, December, 2006
791. Co-organizer, Workshop on Large Scale Computations on Grids (LaSCoG'2006), Wisła, Poland, November, 2006
792. Co-organizer, Agent-Based Computing III (ABC'06), Wisła, Poland, November, 2006
793. Chair of the Organizing Committee, First International Multiconference on Computer Science and Information Technology, Wisła, Poland, November, 2006
794. Vice-Chair, XXI Fall Meeting of the Polish Information Processing Society, Wisła, Poland, November, 2006
795. Member of the Program Committee, IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS 2006), Dallas, TX, November, 2006
796. Member of the Program Committee, Grid Computing, High-performance and Distributed Applications (GADA'06), Montpellier, France, October-November, 2006
797. Member of the Program Committee, Workshop: Nature Imitation Methods – Theory and Practice (NIM 2006), Jinan, China, October, 2006
798. Member of the Advisory Committee, 6th International Conference on Intelligent Systems Design and Applications (ISDA2006), Jinan, China, October, 2006
799. Member of the Program Committee, Fourth Biennial International Conference on Advances in Information Systems (ADVIS'2006), Izmir, Turkey, October, 2006
800. Member of the Program Committee, 2<sup>nd</sup> IEEE ICEBE Conference, Shanghai, China, October, 2006
801. Co-organizer, (Multi-)Agent Systems in E-Business: Concepts, Technologies and Applications (MASEB'2006), Invited Session during KES'2006 Conference, Bournemouth, UK, October, 2006
802. Member of the Program Committee, 2<sup>nd</sup> Austrian Grid Symposium, Innsbruck, Austria, September, 2006
803. Member of the Program Committee, International Conference on Computational and Mathematical Methods in Science and Engineering (CMMSE 2006), Madrid, Spain, September, 2006
804. Member of the Program Committee, Fifth International Workshop on Algorithms, Models and Tools for Parallel Computing on Heterogeneous Networks (HeteroPar'06), Barcelona, Spain, September, 2006
805. Member of the Program Committee, Fifth International Conference on Applied Mathematics (ICAM5), Baia Mare, Romania, September, 2006
806. Member of the Program Committee, 4<sup>th</sup> International Workshop on Parallel Matrix Algorithms and Applications (PMAA'06), Rennes, France, September, 2006

807. Member of the Program Committee, 3<sup>rd</sup> Workshop on Agents for Complex Systems, Timisoara, Romania, September, 2006
808. Member of the Program Committee, 8<sup>th</sup> International Workshop on Symbolic and Numeric Algorithms for Scientific Computing (SYNASCO6), Timisoara, Romania, September, 2006
809. Member of the Program Committee, Advanced Concepts for Intelligent Vision Systems (ACIVS'2006), Antwerp, Belgium, September, 2006
810. Member of the Program Committee, Ubiquitous User Modeling Workshop, Riva Del Garda, Italy, August, 2006
811. Member of the Program Committee, 2<sup>nd</sup> IFIP International Symposium on Network Centric Ubiquitous Systems (NCUS 2006), Seoul, South Korea, August, 2006
812. Member of the Program Committee, Workshop on Web Services-based Grid Applications (WSGA), Columbus, OH, August, 2006
813. Member of the Program Committee, 5<sup>th</sup> International Symposium on Parallel and Distributed Computing (ISPDC'06), Timisoara, Romania, July, 2006
814. Member of the Program Committee, Twelfth International Conference on Parallel and Distributed Systems (ICPADS'06), Minneapolis, MN, July, 2006
815. Member of the Program Committee, 9<sup>th</sup> International Conference on Business Information Systems (BIS 2006), Klagenfurt, Austria, June, 2006
816. Member of the Program Committee, International Conference on Communications in Computing (CIC 2006), Las Vegas, NV, June, 2006
817. Member of the Program Committee, International Conference on Computational Science (ICCS 2006), Reading, UK, May, 2006
818. Publicity Co-Chair, 6th IEEE International Symposium on Cluster Computing and the Grid (CCGrid'2006), Singapore, Singapore, May, 2006
819. Member of the Program Committee, High Performance Computing & Simulation (HPC&S'06), Bonn, Germany, May, 2006
820. Member of the Senior Program Committee, 8<sup>th</sup> International Conference on Enterprise Information Systems (ICEIS), Paphos, Cyprus, May, 2006
821. Member of the Program Committee, 2006 International Conference on Computational Science and its Applications (ICCSA 2006), Glasgow, UK, May, 2006
822. Co-chair, Special Track on Agents, Interactions, Mobility, and Systems (AIMS), during the 21st ACM Symposium on Applied Computing (SAC 2006), Dijon, France, April, 2006
823. Member of the Program Committee, IEEE International Conference on Engineering of Intelligent Systems (ICEIS'2006), Islamabad, Pakistan, April, 2006
824. Member of the Program Committee, 39<sup>th</sup> Annual Simulation Symposium (ANSS'2006), Huntsville, AL, April, 2006
825. Member of the Scientific Committee, IADIS International Conference Applied Computing 2006, San Sebastian, Spain, February, 2006
826. Member of the Program Committee, 14<sup>th</sup> Euromicro Conference on Parallel, Distributed and Network based Processing, Montbéliard-Sochaux, France, February, 2006
827. Member of the Program Committee, 1<sup>st</sup> Austrian Grid Symposium, Schloss Hagenberg, Austria  
December, 2005
828. Member of the Program Committee, IFIP International Symposium on Network-Centric Ubiquitous Systems (NCUS 2005), Nagasaki, Japan, December, 2005

829. Member of the Program Committee, 4<sup>th</sup> International Conference on Computer & Information Systems (ICCIS'2005), Kolhapur, India, December, 2005
830. Member of the Program Committee, International Conference on Information Technology (ICIT 2005), Istanbul, Turkey, December, 2005
831. Member of the Program Committee, Sixth International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2005), Dalian, China, December, 2005
832. Member of the Program Committee, HPC-Asia, Beijing, China, November-December, 2005
833. Member of the Program Committee, 5<sup>th</sup> International Conference on Hybrid Intelligent Systems (HIS 2005), Rio de Janeiro, Brazil, November, 2005
834. Member of the Program Committee, IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS 2005), Phoenix, AZ, November, 2005
835. Member of the Program Committee, VIII International Conference, Enterprise Management, Theory and Practice, Kraków, Poland, November, 2005
836. Member of the International Program Committee, INFORMATION SOCIETY 2005, 8<sup>th</sup> International Multiconference, Ljubljana, Slovenia, October, 2005
837. Member of the Program Committee, 6th International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP-2005), Melbourne, Australia, October, 2005
838. Member of the Program Committee, The International Symposium on System Theory, Automation, Robotics, Computers, Informatics, Electronics and Instrumentation (SINTES 12), Craiova, Romania, October, 2005
839. Member of the Advisory Board, 2005 IEEE International Conference on e-Business Engineering (ICEBE 2005), Beijing, China, October, 2005
840. Member of the Program Committee, International Conference on Computer and Information Sciences (CIS 2005), Istanbul, Turkey, October, 2005
841. Member of the Program Committee, Advanced Concepts for Intelligent Vision Systems (ACIVS'05), Antwerp, Belgium, September, 2005
842. Co-organizer, Workshop on Large Scale Computations on Grids (LaSCoG), a part of the PPAM'2005 Conference, Poznań, Poland, September, 2005
843. Member of the Program Committee, 6<sup>th</sup> International Conference on Parallel Processing and Applied Mathematics (PPAM'2005), Poznań, Poland, September, 2005
844. Co-Chair, 5<sup>th</sup> International Conference on Intelligent Systems Design and Applications, Wrocław, Poland, September, 2005
845. Member of the Program Committee, 7<sup>th</sup> International Workshop on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC05), Timisoara, Romania, September, 2005
846. Member of the Program Committee, Workshop on Algorithms and Tools for Parallel Computing on Heterogeneous Clusters (Heteropar'05), Boston, MA, September, 2005
847. Member of the Program Committee, Informatics for Environmental Protection, Brno, Czech Republic, September, 2005
848. Publications Chair, International Conference on Next Generation Web Services Practices (NWeSP'05), Seoul, Korea, August, 2005
849. Member of the Program Committee, International Conference on Communication and Information Technologies (CIT 2005), Istanbul, Turkey, August, 2005
850. Member of the Program Committee, International Symposium on Parallel and Distributed Computing (ISPDC), Lille, France, July, 2005

851. Member of the Program Committee, Workshop on Web and Grid Services for Scientific Data Analysis (WAGSSDA), Oslo, Norway, June, 2005
852. Member of the Scientific Committee, International Conference on Computational and Mathematical Methods in Science and Engineering (CMMSE 2005), Alicante, Spain, June, 2005
853. Member of the Program Committee, Sixth International Conference on Communications in Computing (CIC'2005), Las Vegas, NV, June, 2005
854. Member of the Program Committee, International Conference on Bioinformatics (ICBI 2005), Istanbul, Turkey, June, 2005
855. Member of the Program Committee, The 2005 High Performance Computing & Simulation (HPC&S) Conference, Riga, Latvia, June, 2005
856. Member of the Program Committee, Information and Communication Technologies International Symposium (ICTIS'2005), Tetuan, Morocco, June, 2005
857. Member of the Program Committee, The Fourth IEEE International Workshop on Soft Computing as Transdisciplinary Science and Technology (WSTST'05), Muroran, Japan, May, 2005
858. Co-organizer, Agent-Based Computing II (ABC'05), Cancun + Tetuan + Melbourne, May-October, 2005
859. Member of the Program Committee, 4<sup>th</sup> International Interdisciplinary Conference on Electronic Commerce (ECOM-05), Gdańsk, Poland, April, 2005
860. Member of the Program Committee, 7<sup>th</sup> International Conference on Enterprise Information Systems, Miami, FL, May, 2005
861. Member of the Program Committee, International Conference on Computational Science and its Applications (ICCSA 2005), Singapore, Singapore, May, 2005
862. Member of the Program Committee, International Conference on Computational Science (ICCS 2005), Atlanta, GA, May, 2005
863. Publicity Co-Chair, 5th IEEE International Symposium on Cluster Computing and the Grid (CCGrid'2005), Cardiff, UK, May, 2005
864. Co-organizer, Special Track on Intelligent Agent Systems: Theory, Design and Implementation, during the 18<sup>th</sup> International FLAIRS Conference, Clearwater Beach, FL, May, 2005
865. Member of the Program Committee, Information Assurance and Security (IAS'05), Las Vegas, NV, April, 2005
866. Member of the Program Committee, 38<sup>th</sup> Annual Simulation Symposium (ANSS'2005), San Diego, CA, April, 2005
867. Member of the Program Committee, 8<sup>th</sup> International Conference on Business Information Systems (BIS 2005), Poznań, Poland, April, 2005
868. Member of the Program Committee, 2<sup>nd</sup> Language & Technology Conference, Poznań, Poland, April, 2005
869. Member of the Program Committee, International Conference on Electronic Commerce and Internet Technologies (ECIT 2005), Istanbul, Turkey, April, 2005
870. Co-chair, Special Track on Agents, Interactions, Mobility, and Systems (AIMS), during the 20th ACM Symposium on Applied Computing (SAC 2005), Santa Fe, NM, March, 2005
871. Member of the Program Committee, International Conference on Software and Knowledge Engineering (SKE 2005), Istanbul, Turkey, February, 2005

872. Member of the Scientific Committee, IADIS International Conference Applied Computing 2005, Algarve, Portugal, February, 2005
873. Member of the Program Committee, International Conference on Information Technology (ICIT 2004), Istanbul, Turkey, December, 2004
874. Member of the Program Committee, International Conference on Computational Intelligence (ICCI 2004), Istanbul, Turkey, December, 2004
875. Member of the Program Committee, 4<sup>th</sup> International Conference on Hybrid Intelligent Systems (HIS 2004), Kitakyushu, Japan, December, 2004
876. Member of the Program Committee, Fifth International Conference on Parallel and Distributed Computing, Applications, and Technologies (PDCAT 2004), Singapore, Singapore, December, 2004
877. Member of the Organizing Committee, 20<sup>th</sup> Mrągowo Meeting of the Polish Information Society, Mrągowo, Poland, November, 2004
878. Member of the Program Committee, 3rd International workshop on Parallel Matrix Algorithms and Applications (PMAA'04), Marseille, France, October, 2004
879. Member of the Program Committee, Third Biennial International Conference on Advances in Information Systems (ADVIS'2004), Izmir, Turkey, October, 2004
880. Member of the International Program Committee, Sixth Multiconference "Information Society" IS'2004, Ljubljana, Slovenia, October, 2004
881. Member of the Conference Committee, International Conference on Computer Vision and Graphics 2004, Warsaw, Poland September, 2004
882. Member of the Program Committee, 6<sup>th</sup> International Workshop on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC04), Timisoara, Romania, September, 2004
883. Member of the Program Committee, 4<sup>th</sup> International Conference on Applied Mathematics, Baia Mare, Romania, September, 2004
884. Member of the Program Committee, Workshop on Multi-agent Systems, Ontologies and Conflict Resolution (MASOCR), Wellington, New Zealand, September, 2004
885. Member of the Advisory Committee, IEEE International Conference on e-Commerce Technology for Dynamic E-Business (CEC04-EAST), Beijing, China, September, 2004
886. Member of the Program Committee, Advanced Concepts for Intelligent Vision Systems (ACIVS'04), Brussels, Belgium, August-September, 2004
887. Member of the Program Committee, Intelligent Systems Design and Applications (ISDA'2003) Conference, Budapest, Hungary, August, 2004
888. Member of the Program Committee, Workshop on Algorithms and Tools for Parallel Computing on Heterogeneous Clusters (Heteropar04), Cork, Ireland, July, 2004
889. Member of the Program Committee, International Symposium on Parallel and Distributed Computing (ISPDC), Cork, Ireland, July, 2004
890. Member of the Program Committee, The International Workshop Series on "Autonomous Computing and Agents for Business Automation" Research & Development, USA + New Zealand + The Netherlands, June-October, 2004
891. Member of the Program Committee, Fifth International Conference on Communications in Computing (CIC'2004), Las Vegas, NV, June, 2004
892. Member of the Program Committee, International Conference on Computational Science (ICCS), Krakow, Poland, June, 2004
893. Member of the International Program Committee, High Performance Computing & Simulation (HPC&S) Conference, Magdeburg, Germany, June, 2004

894. Member of the Program Committee, Special Track on Intelligent Agent Systems: Theory, Design and Implementation, during the 17<sup>th</sup> International FLAIRS Conference, Miami Beach, FL, May, 2004
895. Member of the Program Committee, Information Assurance and Security (IAS 2004), Las Vegas, NV, April, 2004
896. Member of the Program Committee, 7<sup>th</sup> International Conference on Business Information Systems (BIS 2004), Poznań, Poland, April, 2004
897. Member of the Program Committee, 37<sup>th</sup> Annual Simulation Symposium (ANSS'2004), Arlington, VA, April, 2004
898. Member of the Scientific Committee, 5<sup>th</sup> WSEAS International Conference on Neural Networks and Applications (NNA '04) (held jointly with Conferences on Fuzzy Sets & Fuzzy Systems (FSFS '04) and Evolutionary Computations (EC '04)), Udine, Italy, March, 2004
899. Co-chair, Special Track on Agents, Interactions, Mobility, and Systems (AIMS), during the 19th ACM Symposium on Applied Computing (SAC 2004), Nicosia, Cyprus, March, 2004
900. Member of the Program Committee, International Conference on Management of e-Commerce and e-Government (ICMeCG), Nanchang, China, October, 2003
901. Member of the Program Committee, International Conference on Applied Artificial Intelligence, Pune, India, December, 2003
902. Member of the Program Committee, 3<sup>rd</sup> International Conference on Hybrid Intelligent Systems (HIS 2003), Melbourne, Australia, December, 2003
903. Member of the Program Committee, 3<sup>rd</sup> International Interdisciplinary Conference on Electronic Commerce (ECOM-03), Gdańsk, Poland, October, 2003
904. Chairman, 2<sup>nd</sup> International Symposium on Parallel and Distributed Computing (ISPDC), Ljubljana, Slovenia, October, 2003
905. Member of the International Program Committee, Sixth Multiconference "Information Society" IS'2003, Ljubljana, Slovenia, October, 2003
906. Member of the Program Committee, The 5<sup>th</sup> Workshop on High Performance Scientific and Engineering Computing with Applications (HPSECA-01), Kaohsiung, Taiwan, ROC, October, 2003
907. Member of the Program Committee, 5<sup>th</sup> International Conference on Parallel Processing and Applied Mathematics (PPAM'2003), Częstochowa, Poland, September, 2003
908. Member of the Program Committee, Workshop on Algorithms and Tools for Parallel Computing on Heterogeneous Clusters, Częstochowa, Poland, September, 2003
909. Member of the Program Committee, Advanced Concepts for Intelligent Vision Systems (ACIVS'03), Ghent, Belgium, September, 2003
910. Member of the Program Committee, Fourth International Conference on Parallel and Distributed Computing, Applications, and Technologies (PDCAT 2003), Chengdu, China, August, 2003
911. Member of the International Program Committee, Third International Scientific School "Modeling and Analysis of Safety and Risk in Complex Systems" (MASR – 2003), Saint-Petersburg, Russia, August, 2003
912. "Software Agents," Stream Chair, Intelligent Systems Design and Applications (ISDA'2003) Conference, Tulsa, OK, August, 2003
913. Member of the Program Committee, Agent-Based Computing 2003 (ABC'03), Orlando, FL, July, 2003

914. Member of the Program Committee, International Workshop: Agents for Business Automation (ABA'2003), Las Vegas, NV, June, 2003
915. Member of the Program Committee, The 2003 International Conference on Information and Knowledge Engineering (IKE'03), Las Vegas, NV, June, 2003
916. Member of the Program Committee, Fourth International Conference on Communications in Computing (CIC'2003), Las Vegas, NV, June, 2003
917. Member of the International Scientific Committee, 4<sup>th</sup> International Conference on "Large-Scale Scientific Computation," Sozopol, Bulgaria, June, 2003
918. Software Agents in Business Information Systems (SABIS), Special Session during the BIS 2003 Conference, Colorado Springs, CO, June, 2003
919. Special Sessions Coordinator and Member of the Program Committee, 6<sup>th</sup> International Conference on Business Information Systems (BIS 2003), Colorado Springs, CO, June, 2003
920. Member of the Program Committee, Third International Workshop on "Agent Based Cluster and Grid Computing", at the IEEE International Symposium on Cluster Computing and the Grid (CCGrid'2003), May 2003, Tokyo, Japan
921. Member of the Program Committee, The 4<sup>th</sup> Workshop on Parallel and Distributed Scientific and Engineering Computing with Applications (PDSECA-03), Nice, France, April, 2003
922. Member of the Program Committee, 36<sup>th</sup> Annual Simulation Symposium (ANSS'2003), Orlando, FL, March/April, 2003
923. Co-chair, Special Track on Agents, Interactions, Mobility, and Systems (AIMS), during the 18th ACM Symposium on Applied Computing (SAC 2003), Melbourne, FL, March, 2003
924. Member of the Scientific Committee, 4<sup>th</sup> WSEAS International Conference on Neural Networks and Applications (NNA '03) (held jointly with Conferences on Fuzzy Sets & Fuzzy Systems (FSFS '03) and Evolutionary Computations (EC '03)), Lanzarote Island, Spain, February, 2003
925. Member of the Program Committee, Second Biennial International Conference on Advances in Information Systems (ADVIS'2002), Izmir, Turkey, October, 2002
926. Member of the International Program Committee, Fifth Multiconference "Information Society" IS'2002, Ljubljana, Slovenia, October, 2002
927. Member of the Program Committee, Workshop on Algorithms and Tools for Parallel Computing on Heterogeneous Clusters, Moscow, Russia, October, 2002
928. Member of the Scientific Committee, 3<sup>rd</sup> International Conference on Applied Mathematics, Baia Mare, Romania, October, 2002
929. Member of the Program Committee, 5<sup>th</sup> IEEE International Conference on Algorithms and Architecture for Parallel Processing (ICA3PP'2002), Beijing, China, October, 2002
930. Member of the Program Committee, Third International Conference on Parallel and Distributed Computing, Applications, and Technologies (PDCAT 2002), Kanazawa City, Japan, September, 2002
931. Member of the Program Committee, Advanced Concepts for Intelligent Vision Systems (ACIVS'02), Ghent, Belgium, September, 2002
932. Member of the Program Committee, 4<sup>th</sup> Workshop on High Performance Scientific and Engineering Computing with Applications (HPSECA-02), Vancouver, Canada, August, 2002
933. Member of the Program Committee, 5<sup>th</sup> International Conference on Numerical Methods and Applications: NMA'02, Sofia, Bulgaria, August, 2002

934. Member of the Program Committee, International Symposium on Parallel and Distributed Computing, Iași, Romania, July, 2002
935. Member of the International Program Committee, Second International Scientific School “Modeling and Analysis of Safety and Risk in Complex Systems” (MASR – 2002), Saint-Petersburg, Russia, July, 2002
936. Member of the Program Committee, Third International Conference on Communications in Computing (CIC'2002), Las Vegas, NV, June, 2002
937. Member of the Program Committee, Agents for Business Automation, Cross-conference session at the 2002 International Conference on Internet Computing & 2002 International Conference on Artificial Intelligence, Las Vegas, NV, June, 2002
938. Member of the Program Committee, International Workshop on Object-Oriented Business Solutions (WOBS'02), Poznań, Poland, April, 2002
939. Special Sessions Coordinator and Member of the Program Committee, 5<sup>th</sup> International Conference on Business Information Systems (BIS 2002), Poznań, Poland, April, 2002
940. Member of the Technical Committee, 3<sup>rd</sup> Workshop on Parallel and Distributed Scientific and Engineering Computing with Applications (PDSECA-02), Fort Lauderdale, FL, April, 2002
941. Member of the Program Committee, 35<sup>th</sup> Annual Simulation Symposium (ANSS'2002), Seattle, WA, April, 2002
942. Co-chair, Special Track on Agents, Interactions, Mobility, and Systems (AIMS), during the 17th ACM Symposium on Applied Computing (SAC 2002), Madrid, Spain, March, 2002
943. Member of the Scientific Committee, 3<sup>rd</sup> WSES NNA, FSFS, EC Conferences, Interlaken, Switzerland, February, 2002
944. Member of the International Program Committee, Fourth Multiconference “Information Society” IS'2001, Ljubljana, Slovenia, October, 2001
945. Member of the Scientific Committee, International Conference on Computing and Information Technologies, Montclair State University, Montclair, NJ, October, 2001
946. Publications Co-Chair, IEEE International Conference on Cluster Computing (CLUSTER 2001), Newport Beach, CA, October, 2001
947. Member of the International Scientific Committee, AMTA-MCBC-MCBE-AITA Multiconference, Skiathos Island, Greece, September, 2001
948. Member of the Program Committee, 4<sup>th</sup> International Conference on Parallel Processing and Applied Mathematics (PPAM'2001), Nałęczów, Poland, September, 2001
949. Member of the Program Committee, 3<sup>rd</sup> Workshop on High Performance Scientific and Engineering Computing with Applications (HPSECA-01), Valencia, Spain, September, 2001
950. Member of the Program Committee, Cluster Computer track, during the Euro-Par 2001, Manchester, UK, August, 2001
951. Member of the Organizing Committee, 3<sup>rd</sup> International Symposium on Advanced Concepts for Intelligent Vision Systems (ACIVS'01), Baden-Baden, Germany, July-August, 2001
952. Member of the Program Committee, Second International Conference on Parallel and Distributed Computing Applications and Technologies (PDCAT'2001), Taipei, Taiwan, July, 2001
953. Member of the International Scientific Committee, 3<sup>rd</sup> International Conference on “Large-Scale Scientific Computation,” Sozopol, Bulgaria, June, 2001

954. Member of the Program Committee, International Workshop on Object-Oriented Business Solutions, Budapest, Hungary, June, 2001
955. Member of the Program Committee, Second International Conference on Communications in Computing (CIC'2001), Las Vegas, NV, June, 2001
956. Member of the Program Committee, 14<sup>th</sup> International FLAIRS Conference, Key West, FL, May, 2001
957. Member of the Program Committee, IEEE International Symposium on Cluster and Network Computing, Brisbane, Australia, May, 2001
958. Member of the Program Committee, 2<sup>nd</sup> Workshop on Parallel and Distributed Scientific and Engineering Computing with Applications (PDSECA-01), San Francisco, CA, April, 2001
959. Member of the Program Committee, 34<sup>th</sup> Annual Simulation Symposium (ANSS'2001), Seattle, WA, April, 2001
960. Member of the Scientific Committee, 2001 WSES International Conference on Neural Networks and Applications (NNA '01) (held jointly with Conferences on Fuzzy Sets & Fuzzy Systems (FSFS '01) and Evolutionary Computations (EC '01)), Tenerife, Canary Islands, February, 2001
961. Member of the Program Committee, 4<sup>th</sup> IEEE International Conference on Algorithms and Architecture for Parallel Processing (ICA3PP'2000), Hong Kong, December, 2000
962. Member of the Organizing Committee, 2<sup>nd</sup> Southern Conference on Computing, Hattiesburg, MS, November, 2000
963. Member of the Program Committee, 10<sup>th</sup> International Conference on Computing and Information (ICCI'2000), Kuwait, November, 2000
964. Member of the Program Committee, Advances in Information Systems (ADVIS), Izmir, Turkey, October 2000
965. Member of the International Program Committee, Third Multiconference "Information Society" IS'2000, Ljubljana, Slovenia, October, 2000
966. Member of the Program Committee, Workshop on High Performance Scientific and Engineering Computing with Applications (HPSECA-00), (in conjunction with the 2000 International Conference on Parallel Processing), Toronto, August, 2000
967. Member of the Organizing Committee, International Workshop on Parallel Matrix Algorithms and Applications, Neuchatel, Switzerland, August, 2000
968. Member of the Program Committee, 2<sup>nd</sup> International Symposium on Advanced Concepts for Intelligent Vision Systems (ACIVS'00), (in conjunction with the 12<sup>th</sup> International Conference on Systems Research, Informatics and Cybernetics), Baden-Baden, Germany, July-August, 2000
969. Co-Chairman, 4<sup>th</sup> WSES Multiconference on: Circuits, Systems, Communications and Computers (CSCC 2000), Athens, Greece, July, 2000
970. Member of the Program Committee, International Conference on Communications in Computing (CIC'2000), Las Vegas, NV, June, 2000
971. Member of the Organizing Committee, Second Conference on Numerical Analysis and Applications, Rousse, Bulgaria, June, 2000
972. Member of the Program Committee, Second International Workshop on Scientific Computing and Applications, Kananaskis, Alberta, Canada, May-June, 2000
973. Member of the International Program Committee, Distributed Systems: Optimization and Economic-Environmental Applications, Ekaterinburg, Russia, May-June 2000

974. Member of the Program Committee, First International Conference on Parallel and Distributed Computing Applications and Technologies (PDCAT'2000), Hong Kong, May, 2000
975. Member of the Program Committee, 13<sup>th</sup> International FLAIRS Conference, Orlando, FL, May, 2000
976. Member of the Program Committee, GKPO'98: 6<sup>th</sup> International conference on Computer Graphics and Image Processing, Podlesice, Poland, May, 2000
977. Member of the Program Committee, 4<sup>th</sup> International Conference on Business Information Systems (BIS 2000), Poznań, Poland, April, 2000
978. Member of the Program Committee, International Conference on Parallel and Distributed Computing and Networks (PDCN'99), Hong Kong, December, 1999
979. Member of the Program Committee, 11<sup>th</sup> International Conference on Parallel and Distributed Computing and Systems, Boston, MA, October, 1999
980. Member of the International Program Committee, The "Information Society" Multiconference IS'99, Ljubljana, Slovenia, October, 1999
981. Member of the Technical Committee, Workshop on High Performance Scientific and Engineering Computing with Applications, (in conjunction with the 28<sup>th</sup> International Conference on Parallel Processing), Aizu, Japan, September, 1999
982. Member of the Program Committee, Third International Conference on Parallel Processing and Applied Mathematics (PPAM'99), Kazimierz Dolny, Poland, September, 1999
983. Member of the Program Committee, Special Session on Advanced Concepts for Intelligent Vision Systems, (in conjunction with the 11<sup>th</sup> International Conference on Systems Research, Informatics and Cybernetics), Baden-Baden, Germany, August, 1999
984. Co-Chairman, 3<sup>rd</sup> IMACS International Multiconference on: Circuits, Systems, Communications and Computers (IMACS-CSCC'99), Piraeus, Greece, July, 1999
985. Member of the International Scientific Committee, Second Workshop on Large-Scale Scientific Computation, Sozopol, Bulgaria, June, 1999
986. Member of the Program Committee, 3<sup>rd</sup> International Conference on Business Information Systems (BIS'99), Poznań, Poland, April, 1999
987. Member of the Program Committee, International Conference on Parallel and Distributed Computing and Networks (PDCN'98), Brisbane, Australia, December 1998
988. Organizer and Chairman, First Southern Symposium on Computing, Hattiesburg, MS, December, 1998
989. Member of the International Program Committee, Third IEEE Real-Time Systems Education Workshop, Poznań, Poland, November, 1998
990. Member of the International Program Committee, The "Information Society" Multiconference ISM'98, Ljubljana, Slovenia, October, 1998
991. Member of the Scientific Committee, 2<sup>nd</sup> International Conference on: "Circuits, Systems and Computers" (CSC'98), Piraeus, Greece, October, 1998
992. Member of the Program Committee, , IASTED International Conference on Parallel and Distributed Computing and Systems, Las Vegas, NV, October, 1998
993. Member of the Organizing Committee, 4<sup>th</sup> International Conference on Numerical Methods and Applications: NM&A - O(h<sup>4</sup>)'98, Sofia, Bulgaria, August, 1998
994. Member of the Program Committee, GKPO'98: 5<sup>th</sup> International conference on Computer Graphics and Image Processing, Warszawa, Poland, May, 1998

995. Member of the Program Committee, 2<sup>nd</sup> International Conference on Business Information Systems '98, Poznań, Poland, April, 1998
996. Member of the Organizing Committee, 6<sup>th</sup> International Colloquium on Numerical Analysis and Computer Science with Applications, Plovdiv, Bulgaria, August, 1997
997. Co-organizer, Special Session: "Parallel Algorithms for Sparse Structured Matrix Problems" 1<sup>st</sup> Workshop on Large-Scale Scientific Computations, Varna, Bulgaria, June, 1997
998. Member of the Program Committee, International Conference on Business Information Systems '97, Poznań, Poland, April, 1997
999. Organizer, 1<sup>st</sup> Workshop on Numerical Analysis and Applications, Rousse, June, 1996
1000. Organizer, Minisymposium: "High Performance Solution to Structured Linear Systems," ICIAM'95, Hamburg, July, 1995
1001. Co-organizer, 1<sup>st</sup> Permian Basin Conference in Algebra and Number Theory, UTPB, March, 1994
1002. Organizer and Chairman, Permian Basin Supercomputing Conference, UTPB, March 1992

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### **Workshops/Tutorials/Panels/Courses Taught:**

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1. Panel organizer, "AI in Public Administration," Forum of Teleinformatics, Miedzeszyn, Poland, October, 2020
2. "Conference Best Practices", 2019 IEEE Region 10 International Workshop, Madan Mohan Malaviya University of Technology, Gorakhpur, India, September, 2019
3. "Current issues in computing", 5-day course, CHARUSAT University, Anand, India, February, 2018
4. "Plenary Panel", ACIIDS 2017, Kanazawa, Japan, April, 2017
5. "Internet of Things – time to share the power," Night of Architects, Miedzeszyn, Poland, October, 2016
6. "Digital competences." Panelist, Center Copernicus, Warsaw, Poland, May, 2015
7. "Software Agents, Agent Systems and Applications," University of Aizu, Aizu Wakamatsu, Japan, January-March, 2011
8. "Software Agents, Agent Systems and Applications," Hongik University, Seoul, Korea, February, 2011
9. NATO Advanced Studies Institute "Software Agents, Agent Systems and Applications," Tangier, Morocco, September, 2010
10. "Introduction to Software Agents and Agent Systems," Tutorial, 8 hours, Sejmik Młodych Informatyków, Międzyzdroje, Poland, September, 2009
11. "Agents and Agent Systems," Course, 20 hours, Siberian Federal University, Krasnojarsk, Russia, November, 2008
12. "Introduction to Software Agents and Agent Systems," Tutorial, 34th AMEE Conference, Sozopol, Bulgaria, June, 2008
13. "Semantic Web – the Saint or the Sinner," Advocatus Diaboli Panel Session, WEBIST 2008 Conference, Funchal, Portugal, May, 2008
14. "Next Generation Web Systems and Technologies," Panel, WEBIST 2008 Conference, Funchal, Portugal, May, 2008
15. "Agent Systems and Applications," Tutorial, IADIS International Conference on Applied Computing, Algarve, Portugal, April, 2008
16. "Agents and Agent Systems," Course, 12 hours, Southern Illinois University, November, 2007

17. "Agents and Agent Systems," Course, 20 hours, University of Modena, Modena, Italy, May, 2007
18. "Life Under Attack of Impulses; in the World of Information," Panel, Dolnośląski Festival of Science, Wrocław, Poland, September, 2003
19. "Media and Medium," Panel, 3rd Congress of Polish Computer Sciences, Poznań, June, 2003
20. "Internet Travel Agency; E-adventures in the E-world of E-agents," Tutorial, Annual Workshop for the Computer Science Students Association of the Technical University of Wrocław, Szklarska Poręba, Poland, May-June, 2002
21. "Introduction to High Performance Linear Algebra," Tutorial, International Workshop on Parallel Matrix Algorithms and Applications, Neuchatel, Switzerland, August, 2000
22. "Distance Education, Internet Based Courses, and Smart Classroom Teaching," Panel, Fourth Annual Mid-Western Small College Computing Conference, Chicago, IL, September 1997
23. "Introduction to High Performance Computing," Three-day Workshop, Josef Stefan Institute, Ljubljana, Slovenia, June 1994
24. "Introduction to Parallel Computing and Parallel Computing Education," with J. Zalewski, Workshop during the Fifth Annual South Central Small College Computing Conference, Amarillo, TX, April 1994
25. "Introduction to Parallel Computing with Elements of Numerical Linear Algebra," Four-day Workshop, Maria Skłodowska Curie University, Lublin, Poland, June 1993

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### **Papers Presented at Seminars and Conferences:**

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#### **Invited Presentations:**

- Recognizing Indic Script Characters; perfect results for wrong research
  - 3rd International Conference on Information Management & Machine Intelligence (ICIMMI-2021), Jaipur, India, December, 2021, Virtual Conference
  - Big Data Analytics in Science and Engineering, Aizu Wakamatsu, Japan, December, 2021, , Virtual Conference
- Introduction to Federated Learning
  - Sustainable Technology and Advanced Computing In Electrical Engineering (ICSTACE), Surat, India, November, 2021, Virtual Conference
  - 10<sup>th</sup> International Conference on "Computing, Communication and Sensor Networks", CCSN2021, Kolkata, India, October, 2021, Virtual Conference
  - "International Opportunities for Students and Faculty" Webinar, Jaipur Manipal University, Jaipur, India, September 2021
  - International Conference on Emerging Computational Technologies (ICECoT 2021), Malaysia, August, 2021, Virtual Conference
  - 2<sup>nd</sup> International Conference on Signal Processing and Computer Science (SPCS 2021), Virtual Conference
  - Faculty Development Program (FDP) on Machine Learning Frontiers in Healthcare (MLFH-2021), NIT, Delhi, July, 2021
  - 2021 International Conference on Big Data Analysis and Computer Science (BDACS 2021), Kunming, China, June, 2021
  - Fifth International Conference on Design Innovation For 3C's Compute, Communicate, Control (ICDI3C), Kolkata, India, May, 2021, Virtual Conference

- International Conference on Paradigms of Communication, Computing and Data Sciences (PCCDS 2021), Kurukshetra, India, May, 2021, Virtual Conference
- 6<sup>th</sup> International Conference Information, Communication & Computing Technology (ICICCT-2021), New Delhi, India, May, 2021, Virtual Conference
- Emerging Trends in Industry 4.0 (ETI 4.0), Raigarh, India, May, 2021, Virtual Conference
- EUIoT/ICT56: 1st Training Workshop, May, 2021, Webinar
- EASTON100 – Fifth International Conference on Computing Sciences, Goa, India, April, 2021, Virtual Conference
- **Agent Systems 2021; Practical Perspective**
  - International Symposium on Agents, Multi-Agent Systems and Robotics 2021 (ISAMSR 2021), Malaysia, Online, September, 2021
- **Towards edge-fog-cloud continuum**
  - West Pomeranian School of Buisness, Szczecin, Poland, January, 2021
  - 3rd International Conference on Smart Systems: Innovations in Computing, Jaipur, India, January, 2021
  - The Eighth International Conference on Big Data Analytics (BDA 2020), Sonipat, India, December, 2020
  - 2<sup>nd</sup> International Conference On Machine Learning, Advances in Computing, Renewable Energy and Communication (MARC2020), Ghaziabad, India, December, 2020
  - 5<sup>th</sup> International Conference on Computer Science and Computational Intelligence (ICCS CI), Jakarta, Indonesia, November, 2021
  - ICFAI University, Jaipur, India, September, 2020
  - Manipal University Jaipur, Jaipur, India, September, 2020
  - New Horizon College of Engineering, Bangalore, India, September, 2020
  - 2<sup>nd</sup> International Conference on Information Management & Machine Learning (ICIMMI), Jaipur, India, July, 2020
- **Interoperability in Internet of Things Ecosystems**
  - IEEE International Conference on Information Communications Technology and Society (IEEE ICTAS 2020), Durban, South Africa, March, 2020
- **Introduction to Robotic Process Automation**
  - 23<sup>rd</sup> International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, October, 2019
  - 2019 IEEE International Conference on Computing Power and Communications Technologies, Delhi, India, September, 2019
  - International Conference on Emerging Trends in Information Technology (ICETIT-2019), Delhi, India, June, 2019
- **Semantic Technologies in a Decision Support System**
  - International Conference on Advances in Differential Equations and Numerical Analysis (ADENA2020), IIT Guwahati, October, 2020
  - IFIP DSS 2020 20<sup>th</sup> Open Conference of the IFIP WG 8.3 on Decision Support Systems, Wrocław, Poland, June, 2020
  - BG SIAM Annual Meeting, Sofia, Bulgaria, December, 2019
- **From Grid, via Cloud to Fog(gy) future in the Internet of Things**
  - Krishna Engineering College, Ghaziabad, India, May, 2020
  - St. Joseph's College of Engineering, Chennai, India, June, 2020
  - GIET University, Gunupur, India, May, 2020
  - 4<sup>th</sup> International Conference on Next Generation Computing Technologies, Dehradun, India, November, 2018

- 3rd International Conference and Workshops on Recent Advances and Innovations in Engineering, Jaipur, India, November, 2018
- **Semantic Technologies for Resource Access Management**
  - University of Aizu, Aizu-Wakamatsu, Japan, April, 2017
- **Towards Semantic Interoperability in the Internet of Things**
  - Ogólnopolskie Forum GIS Smart City – Skaning i Modele 3D, Warsaw, Poland, October, 2018
  - 5<sup>th</sup> International Conference on Control, Decision and Information Technologies, Thessaloniki, Greece, April, 2018
  - 21<sup>st</sup> International Conference on System Theory, Control and Computing, Sinaia, Romania, October, 2017
  - 3rd International Conference on Advances in Computing, Communication & Automation (ICACCA 2017), Dehradun, India, September, 2017
  - Klub Informatyka, Warsaw, Poland, November, 2017
  - 3rd International Symposium on Big Data Analytics in Science and Engineering (BASE 2017), Aizu Wakamatsu, Japan, November, 2017
- **Interoperability in the Internet of Things**
  - University of Aizu, Aizu-Wakamatsu, Japan, November, 2016
  - IoT Summit, Warsaw, Poland, October, 2016
- **Autonomous Resource Access in the Internet of Things**
  - 3rd Workshop on Communication Networks and Power Systems, Brasilia, Brazil, November, 2018
  - Malaviya Research Conclave 2018, Madan Mohan Malaviya University of Technology, Gorakhpur, India, July, 2018
  - University of Aizu, Aizu-Wakamatsu, Japan, December, 2015
  - ICIST 2015, Druskininkai, Lithuania, October, 2015
  - 7th International Conference ICT Innovations 2015, Ohrid, Macedonia, October, 2015
- **Combining Software Agents and Semantic Technologies for Resource Management in Computational Grids**
  - Digital Technologies 2014, Zilina, Slovakia, July, 2014
- **Agent-based Monitoring System for Cloud/Grid Computing**
  - Workshop on Applications of Software Agents (WASA), Novi Sad, Serbia, July, 2011
- **Generalizing Matrix Multiplication for Efficient Computations on Modern Computers**
  - University of Aizu, Aizu Wakamatsu, Japan, December, 2013
  - Tokyo Denki University, Tokyo, Japan, February, 2013
  - University of Rome “Tor Vergata,” June, 2010
- **Ontologies Agents and the Grid: an Overview**
  - University of Lille, Lille, France, July, 2009
- **Resource Management in Grids: Overview and a discussion of a possible approach for an Agent-Based Middleware**
  - Korea Institute of Science & Technology Information (KISTI), Daejeon, Korea, February, 2011
  - South Eastern European Multi-agent Systems Summer School, Bucharest, Romania, July, 2010
  - Technical University of Bucharest, Bucharest, Romania, May, 2010
  - Stuttgart Supercomputing Center, Stuttgart, Germany, May, 2009
  - First International Conference on Parallel, Distributed and Grid Computing for Engineering, Pecs, Hungary, April, 2009

- **Intelligent Software Agents; Introduction and a Sample Applications**
  - Biznes and Technologies Conference, Warsaw, Poland, July, 2015
  - University of Opava, Opava, Czech Republic, December, 2014
  - Technical University of Prague, Prague, Czech Republic, September, 2014
  - University of Tsukuba, Tsukuba, Japan, March, 2011
  - NATO Advanced Studies Institute “Software Agents, Agent Systems and Applications,” Tangier, Morocco, September, 2010
  - Technical University of Bucharest, Bucharest, Romania, May, 2010
  - IEEE Tulsa Section, Tulsa, OK, March, 2010
  - Second University of Naples, Naples, Italy, September, 2008
- **Content Personalization in Agent Systems – Two Case Studies**
  - Digital Media R&D Center, Samsung Electronics Co., Ltd., Seoul, Korea, July, 2008
- **Software Agents as Resource Managers in Grid**
  - Smart Digital Futures – SDF-15, Sorrento, Italy, June, 2015
  - Supercomputing Center, Russian Academy of Sciences, Moscow, Russia, July, 2009
  - Institute for Parallel Processing, Bulgarian Academy of Sciences, Sofia, Bulgaria, June, 2009
  - University of Graz, Graz, Austria, December, 2008
  - University of Lille, Lille, France, July, 2008
  - Hongik University, Seoul, Korea, July, 2008
- **Agent-based Travel Support System**
  - Hanyang University, Seoul, Korea, July, 2008
- **Introduction to Software Agents and their Applications**
  - Kookmin University, Seoul, Korea, July, 2008
  - Seoul National University, Seoul, Korea, July, 2008
  - Software Agents; Introduction and Grid-based Application
  - Yonsei University, Seoul, Korea, July, 2008
- **Agent-based Virtual Organization**
  - Doshisha University, Kyoto, Japan, March, 2011
  - International Conference “Competitiveness and Stability in the Knowledge-Based Economy,” Craiova, Romania, May, 2010
  - International Conference on Intelligent Agents, Web Technologies and Internet Commerce - IAWTIC08, Vienna, Austria, December, 2008
  - IDC 2008 Conference, Catania, Italy, September, 2008
  - University of Calabria, Cosenza, Italy, September, 2008
  - ICAISC 2008 Conference, Zakopane, Poland, June, 2008
  - WEBIST 2008 Conference, Funchal, Portugal, May, 2008
  - IADIS International Conference on Applied Computing, Algarve, Portugal, April, 2008
- **The Virtual and the Real**
  - Information Technologies in Subject Teaching, Krakow Poland, March, 2010
  - IT Fest, University of Western Timisoara. Timisoara. Romania, March, 2008
- **Managing Trust in an Agent-based Grid resource Brokering System**
  - 33<sup>rd</sup> AMEE Conference, Sozopol, Bulgaria, June, 2007
- **Agent Systems and Applications**
  - Technical University of Sofia, Sofia, Bulgaria, June, 2008
  - Sookmyung Womans University, Seoul, South Korea, January, 2008

- Hongik University, Seoul, South Korea, January, 2008
- Hanjang University, Seoul, South Korea, January, 2008
- Information Days on Advanced Computing, Borovetz, Bulgaria, September, 2007
- University of Lille, Lille, France, July, 2007
- Computer Information Systems and Industrial Management Applications, Elk, Poland, June, 2007
- University of Cluj, Cluj-Napoca, Romania, March, 2007
- University of Craiova, Craiova, Romania, March, 2007
- University of Western Timisoara, Timisoara, Romania, March, 2007
- University of Vespem, Vespem, Hungary, March, 2007
- **Living in a Virtual World**
  - Information Technology in Knowledge Society, Katowice, Poland, May, 2007
- **It is All About Matchmaking**
  - STAKI Laboratory, Budapest, Hungary, March, 2007
- **Developing a Model E-commerce Agent System**
  - 2<sup>nd</sup> Polish and International PostDoctoral Forum – Computer Science Conference, Smardzewice, Poland, October, 2006
  - University of Maribor, Maribor, Slovenia, October, 2006
  - Primorsko University, Koper, Slovenia, October, 2006
  - Novosibirsk State University, Novosibirsk, Russia, September, 2006
  - Krasnoyarsk Technical University, Krasnoyarsk, Russia, September, 2006
  - Paris 6 University, Paris, France, April, 2006
- **Why to look into data stored in the enterprise?**
  - Nowoczesne Systemy Informatyczne dla Sektora MŚP, Poznań, Poland, May, 2006
- **Interactions with Internet Media**
  - Meeting Premiera 2006, Warsaw, Poland, March, 2006
- **Agent Not So Dangerous**
  - Software Development GigaCon, Warsaw, Poland, March, 2006
- **Can Agent Systems Deliver?**
  - University of Karlsruhe, December, 2005
  - IEEE ICEBE Conference, Beijing, China, October, 2005
- **Constructing Agent Systems**
  - University of Economics, Katowice, Poland, April, 2006
  - 1<sup>st</sup> Polish and International PostDoctoral Forum – Computer Science Conference, Bronisławów, Poland, April, 2005
  - Josef Stefan Institute, Ljubljana, Slovenia, April, 2005
  - University of Florence, Florence, Italy, April, 2005
  - University of Modena, Modena, Italy, April, 2005
- **Overview of Mobile Agent Security**
  - NATO Advanced Research Workshop on Information Security Assurance & Security (NATO ARWISA'05), Tetuan, Morocco, June, 2005
- **Designing Agent Systems**
  - Information and Communication Technologies International Symposium (ICTIS'2005), Tetuan, Morocco, June, 2005
  - Internet as a Platform of Globalization of Commerce, Poznań, Poland, March, 2005
  - IADIS International Conference Applied Computing 2005, Algarve, Portugal, February, 2005

- Technical University of Lisbon, Lisbon, Portugal, February, 2005
- Second University of Naples, Caserta, Italy, January, 2005
- University of Lecce, Lecce, Italy, January, 2005
- Multimedia and Network Information Systems Conference, Szklarska Poręba, Poland, September, 2004
- **Software Agents Ten Years After**
  - Technical University of Kraków, Kraków, Poland, May, 2004
  - Warsaw University, Warsaw, Poland, May, 2004
- **Let Computer Science be Computer Science**
  - VII All-Polish Forum of Information Technology Educators, Jastrzębia Góra, Poland, April, 2004
- **Software Agents in E-commerce**
  - Internet as a Platform of Globalization of Commerce, Poznań, Poland, January, 2004
- **Agent Systems Today; Methodological Considerations**
  - 2003 International Conference on Management of e-Commerce and e-Government, Nanchang, China, October, 2003
- **Software Agents as a Programming Methodology**
  - National Software Engineering Conference, Szklarska Poręba, Poland, October, 2003
- **Software Agents in the Real World**
  - IADIS International Conference Applied Computing 2004, Lisbon, Portugal, March, 2004
  - 6th Annual Multiconference: Information Society, Ljubljana, Slovenia, October, 2003
- **Software Agents in Information Management**
  - VII National Forum on Scientific and Technical Information, Ustroń, Polska, Wrzesień, 2003
- **Software Agents in Support of E-travel**
  - University College, Cork, Ireland, March, 2003
- **Internet Travel Agency; Selected Issues in Development and Implementation**
  - Technical University of Poznań, March, 2003
  - Computer Science Conference, UMCS, Kazimierz Dolny, Poland, February, 2003
- **Agent Technology in Support of E-commerce**
  - Second International Conference, ADVIS 2002, Izmir, Turkey, October, 2002
  - International Symposium on Parallel and Distributed Computing, Iași, Romania, July, 2002
- **Software Agents in Support of E-business**
  - Southern Illinois University, Carbondale, IL, October, 2002
  - 10<sup>th</sup> Conference Extracting Knowledge from Databases, Karpacz, Poland, May, 2002
- **Internet Travel Agency**
  - Polish-Japanese Institute of Information Technology, Warszawa, Poland, March, 2002
  - Katowice University of Economics, Katowice, Poland, March, 2002
- **Solving Systems of Nonlinear Algebraic Equations - Where We Are Today**
  - OSCER High Performance Computing Symposium, University of Oklahoma, Norman, OK, September, 2002
  - 3<sup>rd</sup> Conference on Computer Methods and Systems in Scientific Research and Engineering Projects, Kraków, Poland, November, 2001
  - 4<sup>th</sup> International Conference on Parallel Processing and Applied Mathematics (PPAM'2001), Nałęczów, Poland, September, 2001
  - University of Gdańsk, Gdańsk, Poland, October, 2001

- **Agent System for Geospatial Data Management**
  - Jagiellonian University, Kraków, Poland, January, 2002
  - Technical University of Częstochowa, Częstochowa, Poland, November, 2001
  - Western Michigan University, Kalamazoo, MI, May, 2001
  - Oklahoma State University, Stillwater, OK, May, 2001
  - SUNY Binghamton, Binghamton, NY, April, 2001
  - McMaster University, Hamilton, Canada, March, 2001
  - Carleton University, Ottawa, Canada, March, 2001
  - Utah State University, Logan, UT, March, 2001
  - University of Alabama, Tuscaloosa, AL, March, 2001
  - University of Akron, Akron, OH, March, 2001
  - Worcester Polytechnic Institute, Worcester, MA, February, 2001
  - Clark University, Worcester, MA, February, 2001
  - New Mexico State University, Las Cruces, NM, February, 2001
  - University of West Florida, Pensacola, FL, December, 2000
  - Memorial University of Newfoundland, St. Johns, NF, November, 2000
  - Washington State University, Pullman, WA, July, 2000
- **Supercomputers on Their Way to Business. Changes are Coming?**
  - UseRS2001 Conference, Mrągowo, Poland, April, 2001
- **Efficient Solvers for Complex Symmetric Non-Hermitian Eigenproblem**
  - University of Alaska, Fairbanks, AK, March, 2001
  - University of West Florida, Pensacola, FL, December, 2000
  - Colorado School of Mines, Golden, CO, February, 2000
  - SUNY, Albany, NY, March 1999
  - Mississippi State University, Mississippi State, MS, November, 1997
  - Laboratory for Parallel Computing, Bulgarian Academy of Sciences, Sofia, Bulgaria, January, 1997
  - Rensselaer Polytechnic Institute, Troy, NY, November, 1996
- **Studying the Numerical Properties of Solvers for Systems of Nonlinear Equations**
  - Seventh International Colloquium on Numerical Analysis and Computer Science with Applications, Plovdiv, Bulgaria, August, 1998
- **Applying PNN's to the Multifont Pattern Recognition Problem**
  - Seventh International Colloquium on Numerical Analysis and Computer Science with Applications, Plovdiv, Bulgaria, August, 1998
- **Efficient Solvers for Linear Systems Arising from Spectral Decompositions**
  - University of Rouse, Rouse, Bulgaria, January, 1997
  - Southern Methodist University, Dallas, TX, September, 1996
  - ICIAM'95, Hamburg, Germany, July, 1995
- **High Performance Solution of a Class of Structured Linear Systems**
  - Technische Universität, Dresden, Germany, July, 1996
  - East Tennessee State University, Johnson City, TN, March, 1995
- **Porting Software to Modern Computer Architectures**
  - Warsaw University of Technology, Warsaw, Poland, July, 1994
- **Numerical Mathematics and Parallel Computing**
  - Loyola University, New Orleans, February, 1994
- **Efficient Parallel Solution of Almost Block Diagonal Systems**

- Third SIAM Conference on Linear Algebra in Signals, Systems and Control, Seattle, WA, August, 1993
- San Diego State University, San Diego, CA, March, 1993
- Mississippi State University Mississippi State, MS, March, 1991
- Illinois Wesleyan University, Bloomington, IL, March, 1990
- California University of Pennsylvania, California, PA, March, 1990
- Global Computer Networks and Their Role in Education
  - Colloquium in Honor of Leon Leja, Poznań, Poland, June 1993
- Introduction to Parallel Computing
  - Christopher Newport University, Newport News, VA, March, 1993

**Contributed Presentations (stopped recording at the end of 2008):**

1. “Ontological Matchmaking in a *Duty Trip Support* Application in a Virtual Organization,” International Multiconference on Computer Science and Information Technology, Wisła, Poland, October, 2008
2. “Whole Genome Comparison on a Network of Workstations,” ISPDC 2007 Conference, Linz, Austria, July, 2007
3. “Introducing interaction-based auctions into a model agent-based e-commerce system – preliminary considerations,” EATIS Conference, Faro, Portugal, May, 2007
4. “Designing ontology for the Open Travel Alliance airline messaging specification,” 2006 Information Society Multiconference, Ljubljana, Slovenia, October, 2006
5. “Utilizing agent teams in grid resource management - preliminary considerations,” IEEE J. V. Atanasoff Conference, Sofia, Bulgaria, October, 2006
6. “Rule-Based Automated Price Negotiation: an Overview and an Experiment,” ICAISC Conference, Zakopane, Poland, June, 2006
7. “Developing a Model Agent-based Airline Ticket Auctioning System,” IIPWS Conference, Ustroń, Poland, June, 2006
8. “Ontology-based Stereotyping in a Travel Support System,” XXI Fall Meeting of Polish Information Processing Society, Wisła, Poland, December, 2005
9. “Automated Travel Planning,” XXI Fall Meeting of Polish Information Processing Society, Wisła, Poland, December, 2005
10. “UML Models of Agents in a Multi-Agent E-Commerce System,” IEEE ICEBE Conference, Beijing, China, October, 2005
11. “Designing Agent Based Travel Support System,” 4<sup>th</sup> International Symposium on Parallel and Distributed Computing, Lille, France, July, 2005
12. “RDF Demarcated Resources in an Agent-based Travel Support System,” 17<sup>th</sup> Mountain Conference of the Polish Information Society, Szczyrk, Poland, June, 2005
13. “Interaction User – Agent-based Travel Support System,” 17<sup>th</sup> Mountain Conference of the Polish Information Society, Szczyrk, Poland, June, 2005
14. “Agent-based Travel Support System – Creation of Content Collection Subsystem,” 17<sup>th</sup> Mountain Conference of the Polish Information Society, Szczyrk, Poland, June, 2005
15. “Designing an Agent-based Student Mobility Support System,” *Information and Communication Technologies International Symposium (ICTIS'2005)*, Tetuan, Morocco, June, 2005
16. “Marketing Activities of Polish Internet Retailers,” *IADIS International Conference Applied Computing 2005*, Algarve, Portugal, February, 2005

17. "Developing a JADE-based Multi-Agent E-Commerce Environment," *IADIS International Conference Applied Computing 2005*, Algarve, Portugal, February, 2005
18. "Traffic Accident Analysis Using Decision Trees and Neural Networks," *IADIS International Conference Applied Computing 2004*, Lisbon, Portugal, March, 2004
19. "Location Based Approach for Energy Efficient, Secure Mobile Commerce," *2003 International Conference on Management of e-Commerce and e-Government*, Nanchang, China, October, 2003
20. "Agents Capable of Dynamic Negotiations," *ECOMO2003*, Gdańsk, Poland, October, 2003
21. "Some Aspects of Parallel Performance of a Seismic Ray Analysis Algorithm," *5<sup>th</sup> International Conference on Parallel Processing and Applied Mathematics (PPAM'2003)*, Częstochowa, Poland, September, 2003
22. "Structuring Travel Information in an E-travel System," *Second International Conference, ADVIS 2002*, Izmir, Turkey, October, 2002
23. "Agent-Client Interaction in a Web-based E-commerce System," *International Symposium on Parallel and Distributed Computing*, Iași, Romania, July, 2002
24. "Travel Support System – an Agent Based Framework," *International Conference on Internet Computing (IC'02)*, Las Vegas, NV, June, 2002
25. "Information Personalization in an Internet Based Travel Support System," *5<sup>th</sup> International Conference Business Information Systems (BIS'2002)*, Poznań, Poland, April, 2002
26. "Development of E-commerce in Poland and Role of the Banking Sector," *Fourth International Conference on Electronic Commerce Research*, Dallas, TX, October 2001
27. "Personalized Traveler Information System," *5<sup>th</sup> International Conference Human-Computer Interaction*, Gdańsk, Poland, October, 2002
28. "Spatial Data Integration Agents," 27th Summer School "Applications of Mathematics in Engineering and Economics" (AMEE01), Sozopol, Bulgaria, June, 2001
29. "Parallelization of Othello Game-tree Search Algorithms," 27th Summer School "Applications of Mathematics in Engineering and Economics" (AMEE01), Sozopol, Bulgaria, June, 2001
30. "Parallel Visualization of Time Varying Data Sets," 27th Summer School "Applications of Mathematics in Engineering and Economics" (AMEE01), Sozopol, Bulgaria, June, 2001
31. "Studying the Performance of Nonlinear Systems Solvers Applied to the Random Vibration Test," 3rd International Conference on "Large-Scale Scientific Computations," Sozopol, Bulgaria, June, 2001
32. "An Evaluation of Mobile Agent Environments for a Geospatial Knowledge Integration and Management System," *PIONIER 2001*, Poznań, Poland, April, 2001
33. "Intelligent Agents in a Distributed GIS for Improving Interoperability," *PIONIER 2001*, Poznań, Poland, April 2001
34. "Spatial Data Integration Agents," *GIScience 2000*, Savannah, GA, October, 2000
35. "Comparing Solvers for Large Systems of Nonlinear Algebraic Equations," 16th IMACS World Congress, Lausanne, Switzerland, August, 2000
36. "Applying Neural Networks to Hyperspectral Data," 26<sup>th</sup> Summer School "Applications of Mathematics in Engineering and Economics," Sozopol, Bulgaria, June 2000
37. "Parallelization of Creation of a Reference Pattern Set for a Speaker Independent Voice Recognition System," 26<sup>th</sup> Summer School "Applications of Mathematics in Engineering and Economics," Sozopol, Bulgaria, June 2000

38. "Benchmarking the Performance of Parallel Computers Using a 3D Solver," Second Conference on Numerical Analysis and Applications, Rousse, Bulgaria, June, 2000
39. "Solvers and Test Problems for Systems of Nonlinear Algebraic Equations: Where Are We Now?," Second Conference on Numerical Analysis and Applications, Rousse, Bulgaria, June, 2000
40. "Comparing Performance of Neural Networks Applied to Simplified Recognition Problem," FLAIRS-00, Orlando, FL, May, 2000
41. "Applying Neural Networks to Practical Problems - Methodological Considerations," BIS'2000, 4th International Conference on Business Information Systems, Poznań, Poland, April, 2000
42. "Development of e-Banking in Poland – Critical Analysis," BIS'2000, 4th International Conference on Business Information Systems, Poznań, Poland, April, 2000
43. "Comparing performance of Neural Networks Applied to the Multifont Recognition Problem," FLAIRS-99, Orlando, FL, May, 1999
44. "Parallel Conjugate Gradient Method with Circulant Block-Factorization Preconditioners for 3D Elliptic Problems," Ninth SIAM Conference on Parallel Processing for Scientific Computing, San Antonio, TX, March, 1999
45. "Efficient Parallel Solvers for Elliptic PDE's," IASTED International Conference on Parallel and Distributed Computing and Systems, Las Vegas, NV, October, 1998
46. "Benchmarking Performance of Parallel Computers Using a 2D Elliptic Solver," 4th International Conference on Numerical Methods and Applications: NM&A - O(h<sup>4</sup>)'98, Sofia, Bulgaria, August, 1998
47. "Performance Evaluation of Neural Networks for Pattern Recognition," 14<sup>th</sup> Annual Conference on Applied Mathematics, Edmond, OK, February, 1998
48. "Solving Block-Structured Linear Systems on a Power Challenge 8000," The 10th International ISCA Conference: Computer Applications in Industry and Engineering, San Antonio, TX, December, 1997
49. "The Design, Evaluation and Usage of Educational Software," SITE'97, Orlando, FL, April, 1997
50. "A Parallel Algorithm for Solving the Complex Symmetric Eigenproblem," SIAM Conference on Parallel Processing for Scientific Computing, Minneapolis, MN, March, 1997
51. "CS II: an Applied Software Engineering Project," 3rd Midwest SCCC, Greencastle, IN, September, 1996
52. "High Performance Solution of Linear Systems Arising from Conforming Spectral Approximations for Non-Conforming Domain Decompositions," (solicited) 7th ICCAM, Leuven, Belgium, July, 1996
53. "High Performance Solution of a Complex Symmetric Eigenproblem," (solicited) 7th ICCAM, Leuven, Belgium, July, 1996
54. "Applying Spectral Algorithms to MinClique Scheduling Problems," Numerical Analysis in Engineering, Miskolc, Hungary, July 1996
55. "Finding Eigenvalues of Complex Symmetric Matrices," Numerical Analysis in Engineering, Miskolc, Hungary, July 1996
56. "Efficient Solution of Linear Systems Arising from Non-Conforming Domain Decompositions," 1st Workshop on Numerical Analysis and Applications, Rousse, Bulgaria, June, 1996
57. "Studying Computer Awareness," SITE'96, Phoenix, AZ, March, 1996

58. "Developing an Artificial Life Simulation Package," 12<sup>th</sup> Annual Conference on Applied Mathematics, Edmond, OK, February, 1996
59. "Using Level 3 BLAS in Structured Linear Algebra Solvers," 4th International Colloquium on Numerical Analysis, Plovdiv, Bulgaria, August, 1995
60. "High Performance Solution to Linear Systems Arising from Spectral Decomposition on Rectangular Domains," 6th International Colloquium on Differential Equations, Plovdiv, Bulgaria, August, 1995
61. "High Performance Solution to Block-Structured Linear Systems," Second International Conference on Difference Equations and Applications, Veszprem, Hungary, August, 1995
62. "Recent Advances in the Parallel Solution to Almost Block Diagonal Systems," (solicited) IFIP Conference, Warsaw, Poland, July, 1995
63. "Level 3 BLAS Based Solution to Block Tridiagonal Linear Systems," IMA Conference on Linear Algebra, Manchester, UK, July, 1995
64. "Parallel Solution of Linear Recurrence Systems, " ICIAM'95, Hamburg, Germany, July, 1995
65. "Should Computer Science Majors Know How to Write and Speak?" Sixth Annual South Central Small College Computing Conference, Shreveport, LA, April, 1995
66. "A Cyclic Reduction Approach to the Numerical Solution of Boundary Value ODE's," SciCADE'95, Stanford University, Palo Alto, CA, March, 1995
67. "Comparing Attitudes Toward Computers of Polish and American Prospective Teachers," SITE'95, San Antonio, TX, March, 1995
68. "Level 3 BLAS Based Software for Structured Linear Systems," High Performance Computing Technologies and Scientific Applications, Baton Rouge, LA, February, 1995
69. "Studying the Performance of Sorting Algorithms," 11<sup>th</sup> Annual Conference on Applied Mathematics, Edmond, OK, February, 1995
70. "Parallel Algorithms for Finding Trigonometric Sums," Sixth SIAM Conference on Parallel Computing, San Francisco, February, 1995
71. "Solving Block Bidiagonal Linear Systems on Distributed Memory Computers, " Seventh International ISCA Conference on Parallel and Distributed Computing Systems, Las Vegas, NV, October, 1994
72. "Using Strassen Matrix Multiplication in Linear Algebraic Computations," Numerical Analysis, Miskolc, Hungary, August, 1994
73. "Solving Linear Recurrence Systems on Shared Memory Multiprocessors," PARA'94 Workshop on Parallel Scientific Computing, Copenhagen, Denmark, June, 1994
74. "Optimization of Basic Linear Algebraic Operations," Conference on Numerical Analysis, Warsaw, Poland, May, 1994
75. "Using Computer Networks to Study Computer Literacy," STATE'94, Washington, DC, March, 1994
76. "Prospective Teachers' Attitudes Toward Computers," STATE'94, Washington, DC, March, 1994
77. "Solving Linear Recurrence Systems on Parallel Computers," Toward Teraflop Computing and New Grand Challenge Applications Conference, Baton Rouge, LA, February, 1994
78. "Optimizing Performance of Basic Linear Algebraic Subroutines on DEC Computers," 10<sup>th</sup> Annual Conference on Applied Mathematics, Edmond, OK, February, 1994
79. "Computational Aspect of a Certain CFD Problem," Cornelius Lanczos International Centenary Conference, NCSU, Raleigh, NC, December, 1993

80. "Basic Issues in Parallel Computing," (solicited) Mikołaj Kopernik University, Toruń, Poland, June 1993
81. "Parallel Solution of Two-point BVP's for ODE's," Conference on Numerical Analysis, Warsaw, Poland, June 1993
82. "The Problem of Approximation in the Idealizational Conception of Science," (solicited) Adam Mickiewicz University, Poznań, Poland, May 1993
83. "Using Computers in Calculus Teaching," Fourth Annual South Central Small College Computing Conference, Dallas, TX, April, 1993
84. "Parallelization of a Godunov Type Method for the Solution of systems of Conservation Laws," Sixth SIAM Conference on Parallel Processing for Scientific Computing, Norfolk, VA, March 1993
85. "Using Technology in the Classroom: Today and Tomorrow," Fourth Annual Conference on Technology and Teacher Education, San Diego, CA, March 1993
86. "Using BLAS in the Estimation of Nonlinear, Non-Gaussian State-Space Models," 9<sup>th</sup> Annual Conference on Applied Mathematics, Edmond, OK, February, 1993
87. "Incorporating High Performance Computers into Mathematics Curriculum," Fifth Annual Conference on Technology in Collegiate Mathematics, Chicago, November, 1992
88. "Matrix Multiplication – a Very Simple Program With Some Interesting Implications," Eight Annual Eastern Small College Computing Conference, Allentown, PA, October, 1992
89. "A Parallel Chopping Algorithm for ODE Boundary Value Problems," SIAM 40th Anniversary Meeting, Los Angeles, July 1992
90. "Efficient Solution of ABD Systems Arising from Spectral Decomposition on Rectangular Domains," SIAM 40th Anniversary Meeting, Los Angeles, July, 1992
91. "Using Strassen's Matrix Multiplication in Parallel Solution of Large Dense Linear Systems," SIAM 40th Anniversary Meeting, Los Angeles, July, 1992
92. "Parallel Solution of Systems of Conservation Laws Using High Order Methods of Godunov Type," SIAM 40th Anniversary Meeting, Los Angeles, July, 1992
93. "Binary Search on a Linked List – a Research Project in Experimental Computer Science," Third Annual South Central Small College Computing Conference, Oklahoma City, OK, April, 1992
94. "Gaussian Elimination for Large, Dense Linear Systems on an 8-processor Cray Y/MP," SIAM Texas-Oklahoma Meeting, University of Tulsa, Tulsa, OK, April 1992
95. "Practical Considerations for Linear Algebra Algorithms on Cray Y-MP 8/864 Multiprocessor," Fourth SIAM Conference on Applied Linear Algebra, Minneapolis, MN, September 1991
96. "Solving Almost Block Diagonal Systems on Cray Y-MP 8/864 Multiprocessor using Level 3 BLAS," Fourth SIAM Conference on Applied Linear Algebra, Minneapolis, MN, September 1991
97. "Parallel Fast Fourier Transforms," Short Course on Discrete and Continuous Fourier Analysis, Southern Illinois University, Carbondale, IL, August 1991
98. "Solving BVP ODE's with Separated and Non-separated Boundary Conditions Using Level 3 BLAS," Second International Conference on Industrial and Applied Mathematics, Washington, DC, July 1991
99. "Practical Considerations for Linear Algebra Algorithms on Cray Y-MP 8/864 Supercomputer," Second NIU Conference on Linear Algebra, Numerical Linear Algebra and Applications, Northern Illinois University, DeKalb, IL, May 1991

100. "An Overview of Computer Networks in Education: Computer Networks and Network Services," Second Annual South Central Small College Computing Conference, Austin, TX, April 1991
101. "Parallel Linear Algebra for BVP's with Non-separated Boundary Conditions," Fifth SIAM Conference on Parallel Processing for Scientific Computing, Houston, TX, March 1991
102. "Parallelization of BVP Software," IMA Conference on Computational Ordinary Differential Equations, London, UK, July 1989
103. "Average Heights of Random Binary Tree," Technical University of Denmark, Copenhagen, Denmark, April 1986

### **Solicited Lectures:**

1. "Designing Agent Systems," OSU Student Chapter of IEEE, Tulsa, OK, October, 2004
2. "On the Virtual and the Real," USM Chapter of Sigma Xi, USM, Hattiesburg, MS, January, 1999
3. "Change," International Association of Personnel in Employment Security, Tri-Reginal Institute, Odessa, TX, September 1995
4. "Traveling Across Eastern Europe," Unitarian Universalist Church of Odessa, Odessa, TX, September 1995.
5. "Parallel Computing," Data Processing Management Association, Midland, TX, February, 1992
6. "Current Developments in Eastern Europe," New Mexico Junior College, Hobbs, NM, November 1991
7. "Basic Issues in non-Marxian Historical Materialism," Philoquium, Harvard University, Cambridge, MA, January 1989
8. "People, Society and Revolutions," Philosophy Club, Southern Methodist University, Dallas, TX, November 1988

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### **Academic/Work Experience:**

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1. Associate Professor, Systems Research Institute, Polish Academy of Science, Warsaw, Poland, November 2011 – present
2. Associate Professor, Warsaw Management Academy, Warsaw Poland, October 2007 – present  
     Courses Taught at the WSM: Social Issues in Computing, Software Agents and Agent Systems, Scientific Computing, Programming Languages, Management Information Systems, Numerical Algorithms, Web Systems Design
3. Visiting Faculty, Warsaw University of Technology, Warsaw, Poland, October 2003 – present  
     Courses Taught at the WUT: Social Issues in Computing, Software Agents and Agent Systems
4. Adjunct Graduate Faculty, Southern Illinois University, December, 2007 – December 2011
5. Assistant Professor, Systems Research Institute, Polish Academy of Science, Warsaw, Poland, February 2006 – October 2011
6. Visiting Faculty, Leon Koźminski Academy of Entrepreneurship and Management, Warsaw, October 2003 – October 2011  
     Courses Taught at the LKAEM: E-business, Introduction to Computers and Communication, Business Intelligence Agency

7. Associate Professor, Computer Science Institute, SWPS, Warsaw, Poland, May 2004 – September, 2007
8. Graduate Faculty Member, University of Oklahoma, February 2002 – August 2005
9. Assistant Professor of Computer Science, and Graduate Faculty Member, Oklahoma State University, August 2001 – August 2005  
 Courses Taught at the OSU: Formal Languages and Automata, Data Structures and Algorithms I, Social Issues in Computing (web-based; distance learning), Distributed Computing (undergraduate and graduate), Data Structures and Algorithms II (graduate), Computing for Scientists and Engineers (web-based; distance learning)
10. Fulbright Lecturer, Adam Mickiewicz University, Poznań, Poland, October 2003 – June 2004  
 Courses Taught at the AMU: Parallel Programming, Distributed and Agent-based Systems
11. Faculty Member, Doctoral Program in Scientific Computing, The University of Southern Mississippi, September 1997 – August 2002
12. Assistant Professor of Computer Science and Statistics, The University of Southern Mississippi, September 1997 – August 2001  
 Courses Taught at the USM: Distributed Systems (undergraduate and graduate), Neural Networks, Parallel Computing (graduate), Data Structures (for non-majors), Programming Algorithms (undergraduate and graduate), Programming Languages, Fortran Programming, Digital Computer Organization
13. Associate Professor of Mathematics and Computer Science (with tenure), The University of Texas of the Permian Basin, September 1995 – May 1997
14. Assistant Professor of Mathematics and Computer Science, The University of Texas of the Permian Basin, September 1990 - August 1995  
 Courses Taught at the UTPB: Computer Science I, Computer Science II, Pascal Programming, FORTRAN Programming, Data Structures, Computer Architectures, Programming Algorithms, Programming Languages, Business Mathematics I, Precalculus, Calculus I, Differential Equations, Numerical Analysis, Neural Network Computations, History and Philosophy of Science
15. Teaching Assistant, Department of Mathematics, Southern Methodist University, January 1987 - May 1990  
 Courses Taught at the SMU: Finite Mathematics, Business Calculus
16. Summer Teaching Assistant (Mathematics), High School No. 6, Poznań, Poland, September - October 1984
17. Teaching Introduction to Computer Science, High School No. 6, Poznań, Poland, November 1983 - May 1984
18. Summer Teaching Assistant (Mathematics), Elementary School No. 2, Poznań, Poland, September - October 1983
19. Summer Teaching Assistant (Mathematics), Elementary School No. 75, Poznań, Poland, September 1982

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### **Undergraduate and Graduate Research:**

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1. External Evaluator, D.Sc. Procedure, West Pomerania University of Technology, Spring, 2022
2. External Evaluator, D.Sc. Procedure, Silesia University of Technology, Spring, 2020
3. External Evaluator, D.Sc. Procedure, AGH University of Mining and Metallurgy, Fall, 2014

4. External Evaluator, D.Sc. Procedure, AGH University of Mining and Metallurgy, Fall, 2013
5. Directing Ph.D. Thesis, "*Semantic technologies for support of access control to data and services in the Internet of Things*," Systems Research Institute Polish Academy of Sciences, Fall, 2021
6. Directing Ph.D. Thesis, "*Application of semantic analysis method to increase the efficiency of grid usage*", Systems Research Institute Polish Academy of Sciences, Spring, 2018
7. Directing Ph.D. Thesis: "*Solvers for Large Systems of Nonlinear Algebraic Equations*," USM, Summer 2002
8. Co-adviser, "*A Quad-tree Based Sparse BLAS Implementation for Shared Memory Parallel Computers*," University of Rome "Tor Vergata," June, 2010
9. External Examiner, "*Hypergraphs as a Conceptual Model for Mediating Translations between Data Models*," IIT Delhi, January, 2023
10. External Examiner, "*An Ontology-based Framework for Querying Heterogeneous Sensor Data*," Thapar Institute of Engineering & Technology, September, 2022
11. External Examiner, "*Effective Techniques for Privacy-Preserving Publication of Transactional Data*," Jaypee Institute of Information Technology, June, 2021
12. External Examiner, "*Random Forest Applied in Soil Analysis for Optimal Crop Production, it's Hyperparameter Optimization and Parallelization in the Graphical Processing Unit*", Paris-8 University, December, 2019
13. External Examiner, "*Extraction and Evaluation of Software Components from Object-Oriented Artifacts*," National Institute of Technology Kurukshetra, December, 2019
14. External Examiner, "*Development of Machine Learning Tool for Drug Class Prediction*", Shoolini University, Solan, India, October, 2019
15. External Examiner, "*CDQL: A Generic Context Definition and Querying Language for Internet of Things Applications*", Monash University, September, 2019
16. External Examiner, "*Machine Learning Based Framework for Drug Prediction of Cancerous Genomic Profiles*", Thapar Institute of Engineering & Technology, June, 2019
17. External Examiner, "*Parallel Digital Processing of ECG Signals*," Cyril and Methodius University, May, 2019
18. External Examiner, Ph.D. Thesis, "*Detection and Defense Algorithm of Different Types of DDOS Attacks*, University of Technology MARA, May, 2019
19. External Examiner, Ph.D. Thesis, "*Modeling and Performance Analysis of Wireless Sensor Network*, National Institute of Technology Durgapur, October, 2018
20. External Examiner, Ph.D. Thesis, "*Group Activity Recognition and Analysis: Concept, Model and Service Architecture*, Deakin University, May, 2018
21. External Examiner, Ph.D. Thesis, "*Formal and computational models in human timing and reasoning, and their use for knowledge discovery in cognitive science*, UAM, October, 2017
22. External Examiner, Ph.D. Thesis, "*Models and Methods of Conflict Resolution in Data Fusion Process*, Warsaw Military Academy, May, 2017
23. External Examiner, Ph.D. Thesis, "*Algorithms for Solving Selected Classess of Linear Systems with Narrow-banded Matrices on Computers with Multi-core Processors*, UMCS, May, 2015
24. External Examiner, Ph.D. Thesis, "*Adaptive Matchmaking Algorithms for Computational Multi-Agent Systems*, Charles University, September, 2014
25. External Examiner, Ph.D. Thesis, "*On-board Localization Technologies for Vehicle Positioning*, University of Žilina, August, 2013

26. External Examiner, Ph.D. Thesis, "*Methods of parallelization and load balancing for numerical computations on hybrid architectures,*" Technical University of Częstochowa, September, 2012
27. External Examiner, Ph.D. Thesis, "*Methods of parallelization and automatic mapping of EULAG numerical model to graphics processors architecture,*" Technical University of Częstochowa, September, 2012
28. External Examiner, Ph.D. Thesis, "*Compositionally Adaptive Mobile Software Agents for Pervasive Environments,*" Monash University, September 2011
29. External Examiner, Ph.D. Thesis, "*TIMiD Transferring Identity to Mobile Devices,*" University of Rome "Tor Vergata," June, 2010
30. External Examiner, Ph.D. Thesis, "*TUBA: Total User Behaviour Authentication,*" University of Rome "Tor Vergata," June, 2010
31. External Examiner, Ph.D. Thesis, "*Open BAR - A New Approach to Mobile Backup And Restore,*" University of Rome "Tor Vergata," June, 2010
32. External Examiner, "*Dynamic Adaptive Hypermedia System for E-learning,*" University of Craiova, Craiova, Romania, October, 2008
33. External Examiner, Ph.D. Thesis, "*Agent-based Solutions for Electronic Commerce Negotiations,*" Technical University of Sofia, Sofia, Bulgaria, October, 2008
34. External Examiner, Ph.D. Thesis, "*An Integrated Security Framework for Mobile Agent Communities,*" Monash University, Melbourne, Australia, May, 2006
35. External Examiner, Ph.D. Thesis, "*Compeer: a Scalable, Self-organizing, Peer-to-peer Metacomputer,*" University College, Cork, Ireland, February, 2004
36. Member of the Ph.D. Committee, *Distributed Model Checking Multi-agent Systems with Imperfect Information*, SRIPAS, 2016-17
37. Member of the Ph.D. Committee, "*Image Data Compression Using Spectral Shifting,*" Summer 2001
38. Member of the Ph.D. Committee, "*Parallel Monte Carlo Computation of Invariant Measures,*" Summer 2000
39. Member of the Ph.D. Committee, "*A New Fluid Permeability Estimation in Periodic Grain Consolidation Models and Non-overlapping and Overlapping Mono-sized Spheres Models of Porous Media,*" USM, Summer 1999
40. Member of the Ph.D. Committee, "*Distributing a Geographic Visualization System on a Local Network Using a Parallel Data Approach,*" USM, Summer 1999
41. Directing Masters Thesis, *Applying machine learning to disaster detection in Twitter tweets*, Warsaw University of Technology, Fall, 2020
42. Directing Masters Thesis, *Comparing and combining machine learning methods applied to selected area of banking*, Warsaw University of Technology, Fall, 2020
43. Directing Masters Thesis, "*Ontology-driven targeted advertisement system,*" Warsaw University of Technology, Spring, 2015
44. Directing Masters Thesis, "*Semantic system in support of workers in an organization,*" Warsaw University of Technology, Spring 2015
45. Directing Masters Thesis, *Travel Support System*, Warsaw University of Technology, Spring 2013
46. Directing Masters Thesis: *Application of Software Agents in E-commerce*, Warsaw University of Technology, Spring 2008

47. Directing Masters Thesis: *Intelligent Techniques Applied to Management of Ontologically Demarcated Information Gathered from the Internet*, Warsaw University of Technology, Spring 2008
48. Directing Masters Thesis: *Towards Semantic Web*, Warsaw University of Technology, Spring 2008
49. Directing Masters Thesis: *Combining Information from Multiple Internet Sources*, Warsaw University of Technology, Spring 2008
50. Directing Masters Thesis: *Adaptivity of Agent Behavior in an Agent-Based E-Commerce System*, Warsaw University of Technology, Spring 2008
51. Directing Masters Thesis: *Agent-based Commodity Flow Management*, Warsaw University of Technology, Spring 2007
52. Directing Masters Thesis: "Using Ontologies to Organize Data Collected from the Internet," Warsaw University of Technology, Spring 2006
53. Directing Masters Thesis: "Ontologically Oriented Internet Search," Warsaw University of Technology, Fall 2005
54. Directing Masters Thesis: "Spatio-temporally Constrained System for Travel Planning," Warsaw University of Technology, Fall 2005
55. Directing Masters Thesis: "Supplying Data for an RDF-based Content Management System," OSU, Summer 2005
56. Directing Masters Thesis: "Predicting Driver's Injury Severity in Automobile Head-on Collisions Using Machine Learning," OSU, Summer 2003
57. Directing Masters Thesis: "Mining Call Center Performance Data," OSU, Summer 2003
58. Directing Masters Thesis: "Using Software Agents to Index Data for an E-Travel System," OSU, Summer 2003
59. Directing Masters Thesis: "Development of Parallel Solvers for Elliptic PDE's," USM, Summer 2001
60. Refereeing Masters Thesis: "Prognosticating Product Levels in Stores," Warsaw University of Technology, Spring, 2020
61. Refereeing Masters Thesis: "Outsourcing of IT services," University of Szczecin, January, 2009
62. Member of the Masters Committee: "Managing data in a Web Services based environment," Adam Mickiewicz University, Fall 2005
63. Member of the Masters Committee: "Logic Restructuring for Delay Balancing in Wave-Pipelined Circuits: an Integer Programming Approach," OSU, Summer, 2005
64. Member of the Masters Committee: "Parallel Methods for Traversing the GO Game Tree," Adam Mickiewicz University, Spring 2004
65. Member of the Masters Committee: "Secure Object Sharing on Java Card," OSU, Spring 2003
66. Member of the Masters Committee: "Petri Net Modeling of Web Services," OSU, Spring 2003
67. Member of the Masters Committee: "User-oriented Quality of Service Mapping Mechanism for MPEG-4 in Differentiated Services Networks," OSU, Summer 2002
68. Member of the Masters Committee: "A Reconfigurable Coprocessor Architecture for Algorithm Performance Optimization," USM, Fall 2000
69. Member of the Masters Committee: "Mobile Agents and their Applications," USM, Summer 1999

70. Directing MBA Thesis, "*Application of multiagent systems in production industries*", University of Szczecin, 2011
71. External evaluator, MBA Thesis, Managing the implementation of the ERP system from the side of the customer, on the own example, University of Szczecin, 2011
72. Directing Bachelor Thesis, "*Design of cattle movement recording system, based on EU standards*", Warsaw Management Academy, Fall 2019
73. Directing Bachelor Thesis, "*Invoicing system – application in C++ developed with QT libraries*," Warsaw Management Academy, Summer 2019
74. Directing Bachelor Thesis, "*Internet application to manage a small computer repair company*," Warsaw Management Academy, Summer 2019
75. Directing Bachelor Thesis, "*Application Parser – parsing XML files realized in Java programming language*," Warsaw Management Academy, Summer 2019
76. Directing Bachelor Thesis, "*Modernization of a phone system in a small company*," Warsaw Management Academy, Summer 2019
77. Directing Bachelor Thesis, "*Development of a system for complaint management in company XYZ*," Warsaw Management Academy, Summer 2019
78. Directing Bachelor Thesis, "*Appliaction to support Internet connected bee hive weigths*," Warsaw Management Academy, Summer 2018
79. Directing Bachelor Thesis, "*Mobile application supporting sales of animal feed in company XYZ*," Warsaw Management Academy, Summer 2018
80. Directing Bachelor Thesis, "*Application to schedule meeting of a group of friends*," Warsaw Management Academy, Summer 2018
81. Directing Bachelor Thesis, "*Program to manage delivery status of courier delivered packages*," Warsaw Management Academy, Summer 2018
82. Directing Bachelor Thesis, "*Application to manage solution to problems in desktop computers in company XYZ*", Warsaw Management Academy, Summer 2017
83. Directing Bachelor Thesis, "*Mobile application in support of insurance salesperson*," Warsaw Management Academy, Spring 2017
84. Directing Bachelor Thesis, "*Testing in the cycle of creation of Web Applications*," Warsaw Management Academy, Summer 2016
85. Directing Bachelor Thesis, "*Designing and implementing a computer network in an SME*," Warsaw Management Academy, Summer 2016
86. Directing Bachelor Thesis, "*Agent system in support of TAXI corportation*," Warsaw University of Technology, Spring 2016
87. Directing Bachelor Thesis, "*Character generator for Dungeons and Dragons version 3.5*," Warsaw Management Academy, Summer 2016
88. Directing Bachelor Thesis, "*Design and implementation of the system supporting preparation of price-offers of the service on www page positioning*," Warsaw Management Academy, Summer 2013
89. Directing Bachelor Thesis, "*SuperTrader – tool supporting decision making on the FOREX marker*," Warsaw Management Academy, Spring 2013
90. Directing Bachelor Thesis, "*AMagazynier – agent-based warehouse state management system*," Warsaw Management Academy, Spring 2013
91. Directing Bachelor Thesis, "*Effective methods of solving systems of linear equations with the block structured matrices*," Warsaw University of Technology, Summer, 2009

92. Refereeing Bachelor Thesis, "*Model of an ecosystem for problem of class predator-prey,*" Warsaw Management Academy, Summer, 2013
93. Refereeing Bachelor Thesis, "*Design and implementation of a system in a Java language, based on the JPA standard,*" Warsaw Management Academy, Summer, 2013
94. Refereeing Bachelor Thesis, "*Application of the selected CMS to construct a thematic portal,*" Warsaw Management Academy, Summer, 2013
95. Refereeing Bachelor Thesis, "*Creating model of a car for the purpose of film post-production,*" Warsaw Management Academy, Fall, 2012

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**Other Experience:**

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**Other Professional Activities**

- Internship Supervisor, topic: Internet of Things, length: 3 month, trainee from Rzeszów University of Technology, Rzeszów, Poland, Fall, 2021
- Training session on Horizon Europe: key changes to the Ethics Appraisal Process, identifying serious and complex issues in EU-funded projects and addressing ethics of Artificial Intelligence, June, 2021
- Member of Maven.co ThinkTank on "Digital and Virtual Personal Assistants", November, 2015

**Research Assistantship:**

- Preconditioning in the Solution of the Linear Systems for Almost Block Diagonal Matrices, Supervisor: I. Gladwell, Summer 1988
- Detecting Stiffness in Ordinary Differential Equation Solvers, Supervisor: L. F. Shampine, Summer 1987

**System Operator:**

- Operated ODRA 1204 Computer in Agricultural Academy, Poznań, Poland, Summer 1983
- Operated ICL System 4 Computer in H. Cegielski Machine Factory, Poznań, Poland, Summer 1982

**Programmer Analyst:**

- Designed and tested software for the relational data bases using dBase III, marketed the software, FIDES Co. Ltd., Poznań, Poland, Full time position, September - December 1986
- Designed and tested user-friendly system software for IBM 360 Computer, Computer Center of Adam Mickiewicz University Poznań, Poland, Part Time Position, November 1984 - August 1986
- Tested Software for MERA 400 and IBM 360 Computers, The Technical University, of Wrocław, Poland, Summer Job, June 1984

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**Judging:**

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- Member of Jury, Competition for Best Masters Thesis in ICT, 2017
- Member of the Jury, W. Lipski Award, 2009-2017
- Judge for the CODIE Awards, organized by SIIA, 2004-2014

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**Proposal/Project Evaluation:**

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- European Commission, Ethics Expert, Horizon Europe EIC-Accelerator grants, Fall 2021 – present

- European Commission, Ethics Expert, Marie Curie, Postdoctoral Fellowships, Fall 2022
- European Commission, Ethics Expert, KDT-JU, Fall 2022
- European Commission, Ethics Expert, Marie Curie, Individual Fellowships, Spring 2022
- European Commission, BD4NRG Project Evaluator, Fall, 2022
- European Commission, Ethics Expert, Space 2022, Summer 2022
- European Commission, Ethics Expert, SME Instruments, Fall 2017 – Summer 2021
- Expert Evaluator, Brno Ph.D. Talent, Brno, Czech Republic, 2018 – 2022
- European Commission, Ethics Expert, Marie Curie, Individual Fellowships, Fall 2020
- European Commission, Space 2020, Summer 2020
- European Commission, Ethics Expert, FET Proactive: emerging paradigms and communities and EIC Transition to Innovation Activities, Spring 2020
- Internal Project Reviewer for CIOP-PIB, 2017-2019
- Republic of Latvia, Proposal Evaluator, Industry-Driven Research, Spring 2016
- European Commission, Project Evaluator, AComIn, ICPP BAS Project, Spring, 2016
- Polish National Center for Research and Advancement (NCBiR), Project Evaluator, Phase II of Project completed in CIOP-PIB, Spring, 2016
- European Commission, Expert Evaluator, ICT-10-2015 (CAPS, Collective Awareness Platforms for Sustainability and Social Innovation), May, 2015
- Bulgarian National Science Fund, Expert Evaluator, September, 2014
- Polish National Center for Research and Advancement (NCBiR), May, 2014
- European Commission, Expert Evaluator, H2020-EINFRA-2015-1 and H2020-INFRA-SUPP-2015-1, April, 2014
- Polish National Center for Research and Advancement (NCBiR), HiTech, September, 2013
- Polish National Center for Research and Advancement (NCBiR), September, 2013
- Polish National Science Center (NCN), SONATA, September, 2013
- Innovative Enterprise, Polish Ministry of Economy, August, 2013
- European Commission, Expert Evaluator, FP7-ICT-2013-11-4.2, April, 2013
- Applied Research Program, NCBiR, March, 2013
- Innovative Enterprise, Polish Ministry of Economy, February, 2013
- Polish National Science Center (NCN), March, 2012
- European Commission, Expert Evaluator, FP7-ICT-2011-8-4.4, February-March, 2012
- European Commission, Expert Evaluator, Initial Training Networks, April, 2011
- Polish Agency for Enterprise Development, August, 2011
- European Commission, Expert Evaluator, Initial Training Networks, April, 2011
- The Council for International Exchange of Scholars (CIES), Peer Review Committee for the Fulbright Senior Specialists Program, January – December, 2008
- Innovative Enterprise, Polish Ministry of Economy, November, 2008
- Polish Ministry of Science and Higher Education, March, 2008
- The Council for International Exchange of Scholars (CIES), Peer Review Committee for the Fulbright Senior Specialists Program, January – December, 2007
- The Council for International Exchange of Scholars (CIES), Peer Review Committee for the Fulbright Senior Specialists Program, January – December, 2006
- European Commission, Expert Evaluator, FP 6, Call 7, Grid Infrastructure, October, 2005

- The Council for International Exchange of Scholars (CIES), Peer Review Committee for the Fulbright Senior Specialists Program, January – December, 2005
- Project Refereeing, Netherlands Organisation for Scientific Research, March, 2005
- Member of the Review Panel, Louisiana Board of Regents, January, 2003
- Member of the Review Panel, NSF Networking Research Program, October-November, 2002
- Project Refereeing, Ministry of Education, Science and Sport, Republic of Slovenia, April, 2001

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## **Grants:**

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1. “Autonomous, scalable, trustworthy, intelligent European meta Operating System for the IoT edge-cloud continuum (aerOS),” Horizon Europe, European Commission, Team Member, EUR 462500, 2022-2024
2. “Architecture for Scalable, Self-\*, human-centric, Intelligent, Secure, and Tactile next generation IoT (ASSIST-IoT),” Horizon 2020, European Commission, Leader of Task 9.2, EUR 507750, 2020-2023
3. “Development of an agent-based production/workflow management system for Industry 4.0,” L-Systems, Piła, Poland, Consultant, 2019-2022
4. “Interoperability in Internet of Things Platforms” (INTER-IoT), Horizon 2020, European Commission, Team member, EUR 430000, 2016-2018
5. “Software Agents as Resource Brokers in Grid,” Polish Ministry of Science and Higher Education, PI, 220000 PLN, 2008-2011
6. “Agent Technology for Adaptive Information Provisioning,” Poland-Korea Collaboration Grant, PI, \$80,000, 2007-2008
7. “E-commerce Agent Platform,” Marie Curie International Reintegration Grant, European Union, PI, 80,000 euro, 2006-2008
8. “Parallel and Distributed Computing Practices,” Poland-Bulgaria Collaboration Grant, receiver-pays exchanges, PI, 2006 – 2008
9. “Web Based Distributed Data Mining Using Hybrid Intelligent Systems,” Presidential Challenge Grant, co-PI, \$125,000, July 2003 – August 2005
10. “Intelligent Database Agents for Geospatial Knowledge Integration and Management,” approved January 17, 2000, co-PI, 5 years, \$684,000, NIMA202-99-BAA-02
11. Two grants to support First Southern Symposium on Computing: VP for Research grant of \$800.00 and Dean of College of Science and Technology grant of \$500.00, USM, Fall 1998.
12. “Development and Performance Evaluation of High Performance Codes for Problems in Numerical Linear Algebra and Numerical Methods for Partial Differential Equations,” computer time grant, NCSA, University of Illinois, January 1998 - February 1999
13. “Studies in Performance Characteristics of High Performance Methods for Problems in Numerical Linear Algebra and Numerical Methods for Partial Differential Equations,” computer time grant, NPACI, San Diego Supercomputing Center, April 1998 - August, 1998
14. Computer time grant to perform experiments with high performance linear system solvers, NCSA, University of Illinois, September 1995 - December 1997
15. COBASE Project Development Grant for cooperation with Bulgaria, January 1997
16. “A High-Performance Problem-Solving Environment for Optimization and Control of Chemical and Biological Processes,” Consultant, CCR-9527151, Linda Petzold, Project Director

17. Cray time grant to study “The Efficient Eigensolvers for Large Dense Complex Symmetric Matrices,” co-PI, PI: Ilan Bar-On, Department of Chemistry, Technion University and Cray Israel, academic year 1996/97
18. “Applying Spectral Methods to the Solution of Partial Differential Equations,” University of Cyprus, co-PI, PI: Andreas Karageorghis, January 1996 - December 1996
19. SIAM/NSF Travel Grant to Participate in the ICIAM’95 conference in Hamburg, July, 1995.
20. “Parallel Processing in Undergraduate Education,” co-PI, PI: Janusz Zalewski, ARPA, 0-9548-1984, \$50,000.
21. Faculty development grant to participate in the Short Course “Parallel Computation, Practice, Perspectives and Potential,” CalTech, January, 1994
22. Faculty development grant for “Introduction of Computers Into Mathematics Teaching,” UTPB, Spring, 1993
23. Computer Time Grant to perform experiments with high performance linear system solvers, Cray Research Inc., July 1991 - May 1992

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### **Paper Refereeing:**

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I have acted as a referee in all cases when I was a member of the Program or Organizing Committee. Depending on the conference I had to review between one and sixteen submissions. Furthermore I have acted as a reviewer for the following books and journals – in many cases multiple times:

1. *Parallel Computing*
2. *Computer Science*
3. *IEEE Internet of Things Journal*
4. *The International Journal of Human Resource Management*
5. *Journal of Computer Science and Cybernetics*
6. *Journal of Cultural Heritage*
7. *Interacting with Computers*
8. *Information Fusion*
9. *International Journal of Occupational Safety and Ergonomics*
10. *Computers & Electrical Engineering*
11. *Theory of Computing Systems*
12. *Parallel Processing Letters*
13. *Neural Computing and Applications*
14. *International Journal of Human-Computer Studies*
15. *Journal of Network and Computer Applications*
16. *Journal of Automation, Mobile Robotics & Intelligent Systems*
17. *Engineering Applications of Artificial Intelligence*
18. *Journal of Theoretical and Applied Computer Science*
19. *Computers in Industry*
20. *European Journal of Artificial Intelligence*
21. *Computers and Mathematics with Applications*
22. *Carpathian Journal of Mathematics*
23. *Informatika (Slovenia)*
24. *Foundations of Computing and Decision Sciences Journal*

25. *Studies and Materials in Applied Computer Science*
26. *Control and Cybernetics*
27. *Foundations of Computing and Decision Sciences*
28. *Creative Mathematics and Informatics*
29. *Advances in Engineering Software*
30. *International Journal of Agent Technologies and Systems*
31. *Computer Science and Information Systems*
32. *Journal of Natural Computing Research*
33. *ACM Transactions on Autonomous and Adaptive Systems*
34. *International Journal of Intelligent Information and Database Systems*
35. *Information Sciences*
36. *Software: Practice and Experience*
37. *African Journal of Mathematics and Computer Science Research*
38. *Numerical Algorithms*
39. *IEEE Intelligent Systems*
40. *Springer Series: Advances in Computational Intelligence*
41. *International Journal of Agent-Oriented Software Engineering*
42. *Journal of Computers and Applications*
43. *Neurocomputing*
44. *Journal of Communications Software and Systems*
45. *New Generation Computing*
46. *Handbook of Computer Networks*
47. *Journal of Universal Computer Science*
48. *Journal of Advances in Engineering Software*
49. *Systems, Man and Cybernetics, Part A*
50. *International Journal of Applied Mathematics and Computer Science*
51. *International Journal of Hybrid Intelligent Systems*
52. *SIMPRA Journal*
53. *International Journal of Computer Science & Applications*
54. *International Journal of Future Generation Computer Systems*
55. *Annales UMCS-Informatica*
56. *Handbook of Information Security*
57. *EURASIP Journal on Applied Signal Processing*
58. *International Journal of Systems Science*
59. *Concurrency and Computation: Practice and Experience*
60. *Journal of Parallel and Distributed Computing*
61. *Integrated Computer Aided Engineering Journal*
62. *SIAM Review*
63. *IEEE Transactions On Neural Networks*
64. *IEEE Internet Computing*
65. *SIAM Journal on Matrix Analysis and Applications*
66. *International Journal of Parallel and Distributed Systems and Networks*
67. *Simulation Journal*

68. *Scientific Programming Journal*
  69. *IEEE Transaction on Parallel and Distributed Systems*
  70. *IEEE Computer*
  71. *IEEE Transactions on Software Engineering*
  72. *ACM Computing Surveys*
  73. *IMA Journal of Numerical Analysis*
  74. *Linear Algebra and Applications*
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#### **Awards:**

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1. Best paper award; 2022 3<sup>rd</sup> International Conference on Electrical and Electronics Engineering (ICEEE 2022), Video Conference, January, 2022
  2. Lofti Zadeh Memorial Award, International Association for Science, Technology and Management and Adamas University, Kolkata, West Bengal, India, October, 2021
  3. Silver Medal for Contributions to the Polish Information Processing Society, Polish Information Processing Society, June, 2020
  4. Medal of 70 Years of Polish Informatics, Polish Information Processing Society, October, 2018
  5. Broze Medal “Bene Meritus” of Polish Society for TeleMedicine and eHealth, September, 2017
  6. Medal of Polish National Commission on Education, December, 2016
  7. 30<sup>th</sup> Anniversary of Polish Information Processing Society Medal, December, 2014
  8. Best paper award; 7th International Conference on Internet and Distributed Computing Systems; Calabria, September, 2014
  9. Best Presentation Award, ICAISC Conference, Zakopane, Poland, June, 2006
  10. Presidents Commendation for the organization of the Permian Basin Supercomputing Conference, UTPB, 1992
  11. The Golden Windmill Award for an outstanding young researcher, Awarded by the La Mancha Society, UTPB, May 1991
  12. Merit Scholarship, Fall 1984, Spring 1985, Fall 1985, Spring 1986
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#### **Administration:**

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- Member of the Scientific Board, Systems Research Institute Polish Academy of Sciences, 2019 – present
- Member of Scientific Board, CIOP-PIB, 2017 – present
- Member of the Program Board, Germany-Poland New Energy Foundation, 2014 – present
- Member of the Board, European Cluster Agency, 2014 – present
- Chair of the Scientific Board, Mazovia Cluster ICT, 2012 – present
- Member of IEEE CIS Task Force “Intelligent Agents”, 2018 – present
- Panel leader, Management of Information within a Business Conference, Warsaw, Poland, June, 2014
- External research output evaluator, South Africa’s National Research Foundation (NRF), August, 2012
- External tenure application evaluator, University of Southern Illinois, Carbondale, September 2010
- Session Chair, *AIMS SAC Symposium*, Dijon, France, April, 2005

- Session Chair, *IADIS International Conference Applied Computing 2005*, Algarve, Portugal, February, 2005
- Session Chair, *Multimedia and Network Information Systems Conference*, Szklarska Poręba, Poland, September, 2004
- Session Chair, *IADIS International Conference Applied Computing 2004*, Lisbon, Portugal, March, 2004
- Session Chair, *International Symposium on Parallel and Distributed Computing*, Iași, Romania, July, 2002
- Member of the Departmental Graduate Committee, OSU, Fall 2001 – Summer 2002
- Member of the Departmental Search Committee, OSU, Fall 2001 – Summer 2002
- Session Chair, *5<sup>th</sup> International Conference Business Information Systems (BIS'2002)*, Poznań, Poland, April, 2002
- Session Chair, *4<sup>th</sup> International Conference on Parallel Processing and Applied Mathematics (PPAM'2001)*, Nałęczów, Poland, September, 2001
- Session Chair, *Second Southern Conference on Computing*, Hattiesburg, MS, October, 2000
- Member of the Executive Committee of the *IEEE CS Task Force on Cluster Computing (TFCC)*, December 1998 – 2004
- Interim Coordinator for the Scientific Computing Ph.D. Program, USM, July 1999 – July 2000
- Session Chair, *Second Conference on Numerical Analysis and Applications*, Rousse, Bulgaria, June, 2000
- Member of the Departmental Committee on Second Method for Teaching Evaluation, March 1999 – May 2000
- Session Chair, *13<sup>th</sup> International FLAIRS Conference*, Orlando, FL, May, 2000
- Session Chair, *IASTED International Conference on Parallel and Distributed Computing and Systems*, Las Vegas, NV, October, 1998
- Coach, ACM Programming Contest Team, USM, Fall 1998
- Chairman of the Departmental Committee to Develop Course on Application of Mathcad and MATLAB to Engineering Problem Solving, USM, Spring 1998 – Fall 1998
- Member of the Departmental Committee to Develop a Sequence of Course on Computer Networks, USM, Spring 1998 – Fall 1998
- Member of the College Committee to Develop Course on Technology in Teaching, USM, Spring 1998
- Session Chair, *10<sup>th</sup> International ISCA Conference: Computer Applications in Industry and Engineering*, San Antonio, TX, December, 1997
- Chairman, Department of Mathematics and Computer Science, UTPB, Fall 1993 – May 1997
- Chair of the Intellectual Property Committee, Fall 1996 – May 1997
- Member of the University Faculty/Instructional Development Committee, Fall 1993 – May 1997
- Member of the University Curriculum Committee (elected), Fall 1993 – May 1997
- Directing 25 individual undergraduate student research projects, UTPB, Spring 1991 – May 1997
- Member of the University Faculty Committee on Computer Equipment, UTPB, Fall 1990 – May 1997

- Member of the University Faculty Committee on High Tech Instruction, UTPB, Fall 1992 – May 1995
- Member of the User Advisory Committee of the Center for High Performance Computing, May 1993 - June 1994
- Member of the University Strategic Planning Task Force, UTPB, Spring 1994
- Faculty advisor for ACM Programming Contest Team, UTPB, Fall 1993
- Judge, 7th Permian Basin Regional Science Fair, UT Permian Basin, April 1991
- Member of the Departmental Committee to specify placement requirements for the Pascal course, UTPB, Fall 1990
- Member of the Search Committee for the new Rektor (President), Adam Mickiewicz University, Spring 1983
- Student Representative to the Divisional Faculty Board, Adam Mickiewicz University, Fall 1983 - Spring 1986
- Student Representative to the Divisional Finances Council, Adam Mickiewicz University, Fall 1981 - Spring 1986
- Treasurer of Class of 1986, Adam Mickiewicz University, Fall 1981 - Spring 1986
- Organizer of four tourist camps, Summer 1992 - Summer 1995
- President of the Class, High School No. 3, Poznań, Poland, Fall 1986 - Spring 1991

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### **Professional development:**

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- Social Lab on 'Research Infrastructures, including e-Infrastructures', Invited Expert, 2018-19
- IEEE Leader Researcher Forum, Tokyo, Japan, November, 2013
- “SIGSoft 2<sup>nd</sup> Annual Conference on Software Engineering,” New Orleans, December, 1994
- Short Course “Parallel Computation: Practice, Perspectives and Potential,” CalTech, January, 1994
- Grant Opportunities in Science and Engineering, San Antonio, November, 1993
- International Summer Institute on Parallel Computer Architectures, Languages and Algorithms, Czech University of Technology, Prague, July 1993
- Workshop “Supercomputing in Undergraduate Education,” San Diego Supercomputing Center, July, 1992
- Workshop “Calculus, Concepts, Computers and Cooperative Learning,” Purdue University, June, 1992
- Short course “Discrete and Continuous Fourier Analysis,” Southern Illinois University, August 1991
- NSF/CBMS Regional Research Conference: “Multigrid and Multilevel Adaptive Methods for Partial Differential Equations,” George Washington University, June 1991
- UT System CHPC Training Program (UNICOS), Center for High Performance Computing, January 1991
- Parallel Programming Class, Argonne National Laboratory, December 1990

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### **Organization Membership:**

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- Polish Information Processing Society
- Phi Beta Delta Honorary Society for International Scholars
- Association for Computing Machinery – Senior Member
- IEEE (Computer Society) – Senior Member

- Society for Industrial and Applied Mathematics
- Upsilon Pi Epsilon Honorary Society
- Alumni Society

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### Personal Information:

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Date and place of birth:	May 4, 1963, Poznań, Poland
Marital status:	Married, Two + Two Children
Languages:	Polish, English, Russian

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### References:

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All letters of reference are available from Department of Mathematics, Southern Methodist University, Dallas, TX 75275

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