Contact Information

Department of Computer Science
College of Engineering, Design, and Physical Sciences
Brunel University London,
Uxbridge, Middlesex, UB8 3PH, United Kingdom

Research Interests

My research interests are in the area of machine learning, optimisation, networks, and decision making. They include both theoretical and algorithmic development as well as applications for particular classes of problems, such as classification, prediction, estimation, clustering, data mining, and pattern finding. I have published three books, over 30 journal articles, and over 60 conference papers. As per Google Scholar, I have an h-index of 29 and over 2,700 citations to my work.

Current Position

September 2013–present	*Associate professor*, Department of Computer Science, Babes-Bolyai University, Cluj-Napoca, Romania.
October 2013–present	*Lecturer*, Department of Computer Science, College of Engineering, Design, and Physical Sciences, Brunel University London, United Kingdom.

Previous Positions

February 2008 - September 2012	*Senior Lecturer*, Department of Computer Science, Faculty of Mathematics and Computer Science, Babes-Bolyai University, Cluj-Napoca, Romania
February 2005 - January 2008	*Lecturer*, Department of Computer Science, Faculty of Mathematics and Computer Science, Babes-Bolyai University, Cluj-Napoca, Romania

Education

Ph.D., *Faculty of Mathematics and Computer Science, Babes-Bolyai University, Cluj-Napoca.*
Thesis title: Multiobjective optimization using evolutionary algorithms
Distinction: Magna cum Laude
M.Sc., *Complex Analysis and Optimization, Faculty of Mathematics and Computer Science, Babes-Bolyai University, Cluj-Napoca.*
B.Sc., *Faculty of Mathematics and Computer Science, Babes-Bolyai University, Cluj-Napoca .*

Research Grants

o *Principal Investigator (for one of the partners)* IPROCOM - The development of in silico process models for roll compaction, EU FP7 Marie Curie ITN, 10 partners and 4 associate partners (industry), 2013-2016, 3.8 mil Euros.
o *Principal Investigator* Scientific computation and optimisation for interdisciplinary applications, CNCSIS grant (Romania), 2008-2011.

- *Principal Investigator* Nature's heuristics for knowledge discovery from very large databases. Applications in stock market modeling, intrusion detection, classification problems from medical domain, optimization, CNCSIS grant (Romania), 2006-2008.
- *Principal Investigator*, New evolutionary optimization techniques: applications in crystalline structure detection and database interrogation, CNCSIS grant (Romania), 2002-2004.
- *Co-Investigator*, Missing parts detection, Nokia Research Project, 2010-2011.
- *Co-Investigator*, Natural computation of excellence, CNCSIS grant (Romania), 2007-2010.
- *Co-Investigator*, Natural computing. ppplications in bio-nano-technologies and in bio-information, UBB grant, 2005-2008.
- *Co-Investigator*, New evolutionary computation methods. applications in machine learning, evolutionary optimization, data mining and natural language processing, CNCSIS grant (Romania), 2001-2003.
- *Co-Investigator*, Evolutionary computation: new paradigms, techniques and evolutionary algorithms classes. Applications in optimization and artificial intelligence. CNCSIS grant (Romania), 2003-2005.

Teaching Experience

Subject	Level
Big Data Analytics	Postgraduate
Artificial Intelligence	Undergraduate
Evolutionary Computation: Algorithms and Operators	Undergraduate
Level One Group Project on Software Engineering	Undergraduate
Level Two Group Project on Software Engineering	Undergraduate
Object Oriented Programming	Undergraduate
Multi-agent Systems	Undergraduate
Machine Learning and Pattern Recognition	Undergraduate
Machine Learning	Postgraduate
Evolutionary Algorithms	Postgraduate
Scientific seminars on Computational Intelligence	MSc, PhD students

Student supervision

- *Undergraduate:* 11 students.

- *PhD:* Co-supervision of two students

PhD Thesis External Examiner

- *Alina Miron*, INSA Rouen, France, *Multi-modal, Multi-domain Pedestrian Detection and Classification: Proposals and Explorations in Visible over StereoVision, FIR and SWIR,* 2014
- *Ovidiu Serban*, INSA Rouen, France, *Detection and Integration of Affective Feedback into Distributed Interactive Systems,* 2013
- *C. Porkodi*, Anna University, India, *Analysis of Number Theoretic Transform Based Cryptosystem, Group Signatures, E-Voting and a Factorization Algorithm,* 2010

PhD Thesis Internal Examiner

o *Valeria Bo*, Brunel University, London, *Unique Networks: A Method To Identify Disease-Specific Regulatory Networks From Microarray Data*, 2015

Scholarships and Awards

o Merit Gradation, granted for 5 years, on a competitive basis, highest professional recognition and salary bonus (25%) in a Romanian University, 2010-2015

o Euroscience young researcher grant for ESOF 2010 (European Science Open Forum), Turin, Italy, July 2010

o Babes-Bolyai University: Award for excellence in scientific research for the academic year 2009-2010

o Babes-Bolyai University: Award for excellence in scientific research for the academic year 2008-2009

o Postdoc fellowship, Center of Excellence for Quantifiable Quality of Service, Norwegian University of Science and Technology, Trondheim, Norway, December 2006-September 2007

o CEEPUS Scholarship, Budapest, Hungary, May 2002 (one month)

o CEEPUS Scholarship, Linz, Austria, May 2001 (one month)

o CIMPA UNESCO School on Soft Computing approach to Pattern Recognition and Image Processing, Calcutta, India, December 2002, fellowship

o Award from the Romanian Ministry of Education during my undergraduate studies
o Awards for Mathematics Olympiad

Invited Talks

o *Seminar Talk:* **Machine learning in biology. Some challenges and the Big Data perspective**, Gurdon Institute, Cambridge University, July 2013.

o *Conference Tutorial:* **Intelligent Optimization**, The 6th International Conference on Informatics and Systems, Cairo, Egypt, 2008.

o *Invited talk:* **Optimization techniques and applications**, Norwegian University of Science and Technology, April 2007.

o *Conference Tutorial:* **Evolutionary Multiobjective Optimization**, International Conference Applied Computing (IADIS), San Sebastian, Spain, 2006.

PUBLICATIONS

Authored Books

1 Grosan, C., Abraham, A., *Intelligent Systems: a Modern Approach*, Springer Verlag Germany, 2011.
2 Oltean, M., Grosan, C. *Delphi 7 in 200 examples*, Blue Publishing House, Cluj-Napoca, pp. 450, 2004.
3 Oltean, M., Grosan, C. *Programming with C++Builder*, Blue Publishing House, Cluj-Napoca, pp. 400, 2001.

Edited Books:

1 Grosan, C., Abraham, A., Ishibuchi, H., (Eds.), Hybrid Evolutionary Algorithms, Studies in Computational Intelligence, Springer Verlag, Germany, 2008.

2 Abraham, A., Grosan, C., Pedrycz, W., (Eds), Engineering Evolutionary Intelligent Systems, Studies in Computational Intelligence, Springer Verlag, Germany, 2007.

3 Abraham, A., Grosan, C., Ramos, V., (Eds.), Swarm Intelligence and Data Mining, Studies in Computational Intelligence, Springer Verlag, Germany, 2006.

4 Abraham, A., Grosan, C., Ramos, V., (Eds.), Stigmergic Optimization, Studies in Computational Intelligence, Springer Verlag, Germany, July 2006.

International Journals (selected papers)

1 Zawbaa, HM. Emary, E. and Grosan, C., Feature Selection via Chaotic Antlion Optimization, *PloS One*, 11 (3), 2016.

2 Rausanu, S., Grosan, C., Wu, Z., Stoica, R., Parvu, O., Gilbert, D., Computational models for infering biochemical networks, *Neural Computing and Applications*, pp. 1-13, 2014.

3 Rausanu, S., Grosan, C., A hierarchical network model for epidemic spreading. Analysis of A/H1N1 virus spreading in Romania, *Applied Mathematics and Computation*, 233, pp. 39-54, 2014

4 Chan, P.K., Torres, R., Yandim, C., Law, P.P., Khadayate, S., Mauri, M., Grosan, C., Chapman-Rothe, N., Giunti, P., Pook, M., Festenstein, R., Heterochromatinization induced by GAA-repeat hyperexpansion in Friedreichs ataxia can be reduced upon HDAC inhibition by Vitamin B3, *Human Molecular Genetics*, 22 (13), pp. 2662-2675, 2013

5 Grosan, C., Hassainen, A.E., Hybrid self organizing neurons and evolutionary algorithms for global optimization, *Journal of Theoretical and Computational Nanoscience*, 9(2), pp. 304-309, 2012.

6 Thangaraj, R., Thangaraj, C.,Pant, M., Abraham, A., Grosan, C., Optimal Gain-Tuning of PI Speed Controller in Induction Motor Drives Using Particle Swarm Optimization, *Logic Journal of the IGPL*, 19(2), pp. 343-356, 2011.

7 Grosan, C., Abraham, A., Hassainen, A.E., A Line Search Approach for High Dimensional Function Optimization, *Telecommunication Systems: Modelling, Analysis, Design and Management*, 46(3), pp. 217-243, 2011.

8 Grosan, C., Abraham, A., Approximating Pareto Frontier Using a Hybrid Line Search Approach, *Information Sciences*, 180(14), pp. 2674-2695, 2010.

9 Grosan, C., Abraham, A., On a Class of Global Optimization Test Functions, *Neural Network World*, 19(2), pp. 247-252, 2009.

10 Grosan, C., Abraham, A., Hassainen, A.E., Designing Resilient Networks Using Multicriteria Metaheuristics, *Telecommunication Systems: Modelling, Analysis, Design and Management*, 40(1-2), pp. 75-88, 2009.

11 Hassanien, A.E., Abraham, A., Grosan, C., Spiking Neural Network and Wavelets for Hiding Iris Data in Digital Images, *Soft Computing*, 13(4), pp. 401-416, 2009.

12 Chen, Z., Wang, H., Abraham, A., Grosan, C., Yang,B., Chen Y., Wang, L., Improving Neural Network Classification Using Further Division of Recognition Space, *International Journal of Innovative Computing, Information and Control*, 4(11), 2009.

13 Grosan, C., Abraham, A., A Novel Global Optimization Technique for High Dimensional Functions, *International Journal of Intelligent Systems*, 24(4), pp. 421 - 440, 2009.

14 Chen, Z., Yang, B., Chen, Y., Abraham, A., Grosan, C., Peng, L., Hybrid Traffic Classifier for Peer-to-Peer Systems Based on Network Processors, *Applied Soft Computing*, 9(2), pp. 685-694, 2009. (al Images, *Soft Computing*, 13(4), pp. 401-416, 2009.

15 Grosan, C., Abraham, A., Tigan, S. Multicriteria Programming Applied in Medical Field, *Applied Soft Computing*, 8(4), pp. 1407-1417, 2008.

16 Grosan, C., Abraham, A., Multiple Solutions for a System of Nonlinear Equations, *International Journal of Innovative Computing, Information and Control*, 4(9), pp. 2161-2170, 2008.

17 Grosan, C., Abraham, A., A New Approach for Solving Nonlinear Equations Systems, *IEEE Transaction on Systems, Man and Cybernetics Part A*, 38(3), pp. 698-714, 2008.

18 Grosan, C., Oltean, M. Traceless Genetic Programming for Multiobjective Optimization, *Journal of*

Experimental & Theoretical Artificial Intelligence, 19, pp. 227-248, 2007.

19 Grosan, C., Abraham, A. Hybrid learning schemes for designing drugs, *Neural Computing and Applications*, 13(3), pp. 307-316, 2007.

20 Bhattacharya, A., Abraham, A., Vasant, P. and Grosan, C., Meta-Learning Evolutionary Artificial Neural Network for Selecting Flexible Manufacturing Systems Under Disparate Level-of-Satisfaction of Decision Maker, *International Journal of Innovative Computing, Information and Control*, 3(1), pp. 131-140, 2007.

21 Grosan, C, Abraham, A. Evolving Computer Programs for Knowledge Discovery, International *Journal of System Management*, ISSN 0972-6896, 4(2), pp. 7-24, 2006.

22 Abraham, A., Grosan, C., Automatic Programming Methodologies for Electronic Hardware Fault Monitoring, *Journal of Universal Computer Science*, 12(4), pp. 408-431, 2006.

23 Grosan, C., Abraham, A., Nicoara, M. Search Optimization Using Hybrid Particle Sub-Swarms and Evolutionary Algorithms, *International Journal of Simulation Systems, Science & Technology*, 6(10-11), pp. 60-79, 2005.

24 Grosan C., Abraham A., Campian R., Tigan S., Evolution Strategies for Ranking Several Trigeminal Neuralgia Treatments, Applied Medical Informatics, 17(3-4), pp. 72-78, 2005.

25 Grosan, C., Oltean, M. Adaptive Representation for Single Objective Optimization, *Soft Computing*, 9, pp. 594-605, 2005.

26 Oltean, M., Grosan, C. A Comparison of Several Linear Genetic Programming Techniques, *Complex Systems*, 14(4), pp. 285-313, 2003.

Book Chapters

1 Comsa, I., Grosan, C., Yang, S., Dynamics in the multi-objective subset sum: analysing the behaviour of population based algorithms. In S. Yang and X. Yao (Eds.), Evolutionary Computation for Dynamic Optimization Problems, SCI 490, Chapter 12, pp. 299-313, Springer-Verlag Berlin Heidelberg, 2013.

2 Abraham, A., Grosan, A., Pharmaceutical Drug Design Using Dynamic Connectionist Ensemble Networks, Communications and Discoveries from Multidisciplinary Data, Studies in Computational Intelligence, Springer Verlag, Germany, Vol. 123, Iwata S. et al (Eds.), ISBN: 978-3-540-78732-7, pp. 221-231, 2008.

3 Abraham, A., Liu, H., Grosan, C., Xhafa, X., Nature Inspired Metaheuristics for Grid Scheduling: Single and Multiobjective Optimization Approaches, Metaheuristics for Scheduling: Distributed Computing Environments, Studies in Computational Intelligence, Springer Verlag, Germany, ISBN: 978-3-540-69260-7, pp. 247-272, 2008.

4 Grosan, C., Abraham, A., Engineering Evolutionary Intelligent Algorithms: Methodologies, Architectures and Reviews, Hybrid Evolutionary Algorithms, C. Grosan et al. (Eds.), Studies in Computational Intelligence, Springer Verlag, Germany, ISBN 978-3-540-75395-7, pp. 1-22, 2008.

5 Grosan, C., Abraham, A., Hybrid Evolutionary Algorithms: Methodologies, Architectures and Reviews, Hybrid Evolutionary Algorithms, Studies in Computational Intelligence, C. Grosan et al. (Eds.), Vol. 75, Springer Verlag, Germany, ISBN 978-3-540-73296-9, pp. 1-17, 2007.

6 Grosan, C., Abraham, A., Chis, M., Swarm Intelligence in Data Mining, Swarm Intelligence and Data Mining, A. Abraham, C. Grosan and V. Ramos (Eds.), Studies in Computational Intelligence, Springer Verlag, Germany, ISBN 3-540-34955-3, pp. 1-20, 2006.

7 Grosan, C., Abraham, A. Stigmergic optimization: Foundations, Perspectives and applications, Stigmergic Optimization, Studies in Computational Intelligence, Springer Verlag, Germany, ISBN: 3-540-34689-9, pp. 1-24, 2006.

8 Grosan, C., Abraham, A. Stock Market Modeling Using Genetic Programming Ensembles, Genetic Systems Programming, Nadia Nedjah et al. (Eds.), Studies in Computational Intelligence, Springer Verlag Germany, ISBN: 3-540-29849-5, pp. 131-146, 2006.

9 Abraham, A., Grosan, C. Evolving Intrusion Detection Systems, Genetic Systems Programming, Nadia Nedjah et al. (Eds.), Studies in Computational Intelligence, Springer Verlag Germany, ISBN: 3-540-29849-5, pp. 57-79, 2006.

10 Dumitrescu, D., Grosan, C., Oltean, M. Evolving Continuous Pareto Regions, Evolutionary Multiobjective Optimization: Theoretical Advances and Applications, Abraham A., Jain L. and Goldberg R. (Eds.), Springer Verlag, London, ISBN 1852337877, 167-199, 2005.

11 Grosan, C. A comparison of several evolutionary models and representations for multiobjective opti-

mization , Real Word Multi-Objective System Engineering, contributed chapter 3, published by Nova Science, New York, USA, 2005.

International Conferences (selected)

1 Olier, I., Grosan, C., Sadawi, N., Soldatova, L., King, R., Meta-QSAR: learning how to learn QSARs, MetaSel Workshop, ECML-PKDD, Porto, 2015

2 Sadawi, N., Grosan, C., Olier, I., Soldatova, L., King, R., Multiple Task Learning for Quantitative Structure Activity Relationship Learning: Use of a Natural Metric, Big Multi-target Predictions Workshop, ECML-PKDD, Porto, 2015

1 Mehta, D., Grosan, C., A Collection of Challenging Optimization Problems in Science, Engineering and Economics, IEEE Congress on Evolutionary Computation (CEC), Sendai, Japan, May 2015

2 Wu, Z., Grosan, C., Gilbert, D., Empirical Study of Computational Intelligence Strategies for Biochemical Systems Modelling, Nature Inspired Cooperative Strategies for Optimization (NICSO 2013), pp. 245-260, 2013

3 Rausanu, S., Grosan, C., Wu, Z., Parvu, O., Gilbert, D., Evolving biochemical systems, IEEE Congress on Evolutionary Computation (CEC), pp. 1602-1609, 2013

4 Pant, M., Thangaraj, R., Abraham, A., Grosan, C., Differential Evolution with Laplace Mutation Operator, 2009 IEEE Congress on Evolutionary Computation, Trondheim, Norway, IEEE Press, ISBN 978-1-4244-2958-5, pp. 1240-1246, 2009.

5 Grosan, C., Abraham, A., Modified Line Search for High Dimensional Functions Optimization, SIAM Conference on Optimization, Boston, MA, 2008.

6 Grosan, C., Abraham, A., Hybrid line search for multiobjective optimization, 2007 International Conference on High Performance Computing and Communications (HPCC-07), Springer LNCS 4782, Houston, TX, pp. 62-73, 2007.

7 Grosan, C., Abraham, A., Tigan, S., Chang, T.G., Kim, D.H., Evolving Neural Networks for Pharmaceutical Research, International Conference on Hybrid Information Technology (ICHIT'06), IEEE Press, IEEE Press, Korea, pp. 13-19, 2006.

8 Grosan, C., Abraham, A. Solving Nonlinear Equation Systems Using Evolutionary Algorithms, Genetic and Evolutionary Computation Conference (GECCO 2006), Seattle, USA.

9 Grosan, C., Abraham, A., Tigan, S., Chang, T.G. How to Solve a Multicriterion Problem for which Pareto Dominance Relationship Cannot be Applied? A Case Study from Medicine. 10th International Conference on Knowledge-Based and Intelligent Information and Engineering Systems (KES'06), Springer Verlag, B. Gabrys, R.J. Howlett, and L.C. Jain (Eds.): Part III, Lecture Notes in Artificial Intelligence 4253, pp. 1128-1135, 2006.

10 Grosan, C., Abraham, A., Chis, M., Chang, T.G. Evolutionary Elementary Cooperative Strategy for Global Optimization, 10th International Conference on Knowledge-Based and Intelligent Information and Engineering Systems (KES'06), Springer Verlag, B. Gabrys, R.J. Howlett, and L.C. Jain (Eds.): Part III, Lecture Notes on Artificial Intelligence 4253, pp. 677-685, 2006.

11 Grosan, C., Abraham, A. A Simple Strategy for Nonlinear Optimization. Third International Conference on Neural, Parallel and Scientific Computations, Dynamic Publishers Inc. USA, pp. 44-48, 2006.

12 Grosan, C., Multiobjective Adaptive Representation Evolutionary Algorithm (MAREA) - a new evolutionary algorithm for multiobjective optimization. In Proceedings of 9th World on-line Conference on Soft Computing in Industrial Application, Applied Soft Computing Technologies: The Challenge of Complexity, Advances in Soft Computing, Springer Verlag, Germany, pp. 113-121, 2006.

13 Grosan, C., Abraham, A. Solving no free lunch issues from a practical perspective. Ninth International Conference on Cognitive and Neural Systems (ICCNS), Boston, 2005.

14 Grosan, C., Improving the performances of evolutionary algorithms for the multiobjective 0/1 knapsack problem using ε-dominance. Congress on Evolutionary Computation (CEC), G. Greenwood et al (Eds), IEEE Press, pp. 1958-1963, Portland, USA, 2004.

15 Grosan, C., An Evolutionary Approach for Multiobjective Optimization using Adaptive Representation of Solutions. Genetic and Evolutionary Computation Conference (GECCO), M. Keijeer et al (Eds), Springer-Verlag Germany, Seattle, USA, 2004.

16 Grosan, C., M. Oltean. A comparison of several algorithms and representations for single objective optimization. Genetic and Evolutionary Computation Conference (GECCO), K. Deb et al. (Eds),

Springer-Verlag Germany, pp. 788-790, Seattle, USA, 2004.

17 Grosan, C., Evolving mathematical expressions using Genetic Algorithms. Genetic and Evolutionary Computation Conference (GECCO), T. Riopka et al. (Eds), Springer-Verlag Germany, Seattle, USA, 2004.

18 Grosan, C., A new evolutionary technique for detecting Pareto continuous regions. In Proceedings of Genetic and Evolutionary Computation Conference (GECCO) 2003, Workshop Program, Edited by A. Barry, pp. 304-308 Chicago, IL, USA, 2003.

Journal Editorial Board Membership

- *Managing Editor*, International Journal of Computational Intelligence Research (IJCIR), www.IJCIR.info, ISSN: 0973-1873, 2003-2007.

- *Editor*, Operations Research for Health Care, Elsevier

- *Editor*, International Journal of Software Reuse, vrlSoft, Inc., USA

- *Editor*, International Journal of Theoretical and Applied Computer Sciences, GBS Publishers, India

- *Editor*, International Journal of Innovative Computing and Applications, Inderscience Publishers, Geneve, Switzerland

- *Editor*, International Journal of Unified Software Engines

- *Guest Editor*, International Journal of Simulation, Systems, Science and Technology (IJSSST), Special issue on Soft Computing for Modeling and Simulation, published by UK Simulation Society, ISSN: 1473-8031, 2005.

Conference, Workshop and Special Session Organization

- *Session Co-Chair*, Evolutionary Computation for Nonlinear Equation Systems, organised at the Congress on Evolutionary Computation (CEC), Japan, 2015

- *Workshop Chair*, EMODA'09: Fifth International Workshop on Evolutionary Multiobjective Optimization: Design and Applications, in conjunction with 8th International Conference on Intelligent Systems Design and Applications, ISDA'09, Italy, 2009.

- *Workshop Chair*, EMODA'08: Forth International Workshop on Evolutionary Multiobjective Optimization: Design and Applications, in conjunction with 7th International Conference on Intelligent Systems Design and Applications, ISDA'08, Taiwan, 2008.

- *Workshop Chair*, EMODA'07: Third International Workshop on Evolutionary Multiobjective Optimization: Design and Applications, in conjunction with 7th International Conference on Intelligent Systems Design and Applications, ISDA'07, Rio de Janeiro, Brazil, 2007.

- *Publicity Chair* International Conference on Intelligent Systems Design and Applications, ISDA'07, Rio de Janeiro, Brazil, November 7-9, 2005.

- *Workshop Chair*, EMODA'06: Second International Workshop on Evolutionary Multiobjective Optimization: Design and Applications (EMODA'06), in conjunction with 6th International Conference on Intelligent Systems Design and Applications, ISDA'06, Jinan, China, October 16-18, 2006.

- *Workshop Chair*, EMODA'05: First International Workshop on Evolutionary Multiobjective Optimization: Design and Applications (EMODA'05), in conjunction with 5th International Conference on Intelligent Systems Design and Applications, ISDA'05, Wroclaw, Poland, September 08-10, 2005.

- *Publicity Chair* Fifth International Conference on Hybrid Intelligent Systems, Rio de Janeiro, Brazil, November 7-9, 2005.

- *Local organizing committee* Tenth International Conference on Computational Methods in Systems Biology, London, UK, October 3-5, 2012.

Program Committees

- 13th International Conference on Hybrid Intelligent Systems (HIS), Tunis, Tunisia, 2013

- 8th International Conference on Soft Computing Models in Industrial and Environmental Applications, Salamanca, Spain, 2013
- 12th International Conference on Hybrid Intelligent Systems (HIS), Pune, India, 2012
- 12th International Conference on Intelligent Systems Design and Applications (ISDA), Pune, India, 2012
- Tenth International Conference on Hybrid Intelligent Systems (HIS), Malacca, Malaysia, 2011
- 11th International Conference on Intelligent Systems Design and Applications (ISDA), Cba, Spain, 2011
- Genetic and Evolutionary Computation Conference (GECCO), Dublin, Ireland, 2011
- 21st International Conference on Database and Expert Systems Applications (DEXA), Bilbao, Spain, 2010.
- Genetic and Evolutionary Computation Conference (GECCO), Portland, USA, 2010.
- Asia Modelling Symposium (AMS), Kota Kinabalu, Malaysia, 2010
- World Congress on Nature and Biologically Inspired Computing (NABIC), Coinbatore, India, 2009.
- The International Conference on Management of Emergent Digital EcoSystems (MEDES), Lyon, France, 2009.
- Seventh International Conference on Hybrid Intelligent Systems (HIS), Germany, 2007.
- Seventh International Conference on Intelligent Systems Design and Applications (ISDA), Brazil, 2007
- Third Workshop on Natural Computation and Applications (NCA), in conjunction with 8th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), Timisoara, Romania, 2006.
- Second International Conference on Digital Information Management (ICDIM), France, 2007.
- Sixth International Conference on Hybrid Intelligent Systems (HIS), New Zealand, 2006.
- Second Workshop on Natural Computation and Applications (NCA), in conjunction with 8th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), Timisoara, Romania, 2006.
- First International Conference on Digital Information Management (ICDIM), Bangalore, India, December, 2006.
- The First International Workshop on Intelligent Application in Product Lifecycle Management (IAPLM), China, 2006.
- 11th Online World Conference on Soft Computing in Industrial Applications (WSC11), World Wide Web, September 18 - October 06, 2006.
- The sixth International Conference on Intelligent Systems Design and Applications (ISDA), Jinan, China, October 16-18, 2006.
- The Fourth IEEE International Workshop on Soft Computing as Transdisciplinary Science and Technology (WSTST), Muroran, Japan, 2005.
- Special Session on Grid Security, International Conference on Information Security (ICIS), Tenerife, Canary Islands, Spain, 2005.
- Nineteenth International Joint Conference on Artificial Intelligence Edinburgh (IJCAI), 2005 (Poster program).
- Fifth International Conference on Hybrid Intelligent Systems (HIS), Rio de Janeiro, Brazil, 2005.
- Fourth Mexican International Conference on Artificial Intelligence (MICAI), Monterrey, Mexico, 2005.

- Daedeok International Conference on Human-Centered Advance Technology (DIHCA), South Korea, 2005.
- Workshop on Natural Computation and Applications (NCA), in conjunction with 7th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), Timisoara, Romania, 2005.
- Ninth World on-line Conference on Soft Computing in Industrial Application (WSC9), 2004.

Journal Reviewer

- ACM Transactions on Autonomous and Adaptive Systems

- SIAM Journal on Control and optimization

- IEEE Transactions on Evolutionary Computation

- IEEE Transactions on Systems, Man and Cybernetics

- IEEE Transactions on Knowledge and Data Engineering

- Machine Learning, Springer

- Journal of Intelligent Manufacturing, Springer

- Evolutionary Computation, MIT Press

- ACM Computing Reviews

- Journal of Heuristics, Springer Verlag Germany.

- European Journal of Operational Research, Elsevier Science, The Netherlands .

- International Journal of Systems Science, Taylor & Francis, UK.

- Journal of Network and Computer Applications, Elsevier Science, Netherlands.

- Information Sciences, Elsevier Science, Netherlands.

- Neurocomputing Journal, Elsevier Science, Netherlands.

- Journal of Universal Computer Science, Austria.

- Journal of Fuzzy Optimization and Decision Making, Kluwer Academic Publishers, USA

- International Journal of Neural Computing & Applications, Springer Verlag London Ltd., UK

- International Journal of Intelligent and Fuzzy Systems, IOS Press, Netherlands

- International Journal of Computers, Systems and Signals (IJCSS), Special Issue on Multi-Objective Evolution: Theory and Applications

- International Journal of Neural Systems, World Scientific Publishing, Singapore

- International Journal of Hybrid Intelligent Systems, IOS Press, Netherlands

Computer Skills and Competences

- *Programming languages:* C++, C#, C, Python, HTML, PHP, Pascal, MySQL, Java, JavaScript
- *Operating systems:* Windows, MacOS and Linux