

## ZBIGNIEW MICHALEWICZ

Emeritus Professor  
School of Computer Science  
The University of Adelaide  
Adelaide, SA 5005, Australia  
[zbigniew.michalewicz@adelaide.edu.au](mailto:zbigniew.michalewicz@adelaide.edu.au)

*and*

Chief Scientist  
Complexica, Pty Ltd  
Suite 75, 155 Brebner Drive  
West Lakes, SA 5021  
[zm@complexica.com](mailto:zm@complexica.com)

### **Education and Degrees:**

- Institute of Computer Science, Polish Academy of Sciences, 1997:  
D.Sc. (habilitation) in Computer Science (with distinction)
- Institute of Computer Science, Polish Academy of Sciences, 1981:  
Ph.D. in Computer Science (with distinction)
- Technical University of Warsaw, 1974:  
M.Sc. in Applied Mathematics (with distinction)

### **Employment:**

- Chief Scientist at Complexica Pty Ltd, from July 2014 – present.
- Polish-Japanese Academy of Information Technology, Warsaw, Poland, Professor, January 2004 – June 2024.
- Institute of Computer Science, Polish Academy of Sciences, Warsaw, Poland, Professor, October 1994 – June 2024.
- Chief Scientist at SolveIT Software Pty Ltd, from February 2005 – October 2013.
- School of Computer Science, University of Adelaide, Australia, Professor, from November 2004 – January 2013.
- Department of Computer Science, University of North Carolina-Charlotte, Professor, January 2004 – December 2004.
- NuTech Solutions, Inc., Chief Scientist, January 2000 – September 2003.
- Department of Computer Science, University of North Carolina-Charlotte:  
(a) Chairman, November 1999 – January 2001.

- (b) Professor, July 1988 – January 2001.
- Department of Computer Science, Wuhan University, China, Adjunct Professor, March 1998 – present.
  - Department of Computer Science, Aarhus University, Denmark, Visiting Professor, August 1998 – July 1999 (on leave from University of North Carolina-Charlotte).
  - Department of Computer Science, Victoria University of Wellington, New Zealand, Senior Lecturer, June 1982 – June 1989.
  - Institute of Computer Science, Polish Academy of Sciences, Assistant Professor, September 1975 – June 1982.

### Books:

1. Michalewicz, Z., Arantes, L., and Michalewicz, M., *The Rise of Artificial Intelligence: Real-world applications for revenue and margin growth*, Hybrid Publishers, Melbourne, Australia, March 2021.
2. Meyer, E., Falkner, N., Sooriamurthi, R., and Michalewicz, Z., *A Guide to Teaching Puzzle-Based Learning*, Springer, New York, 2014.
3. Michalewicz, Z. and Michalewicz, M., *Puzzle-Based Learning: An Introduction to Critical Thinking, Mathematics, and Problem Solving*, Kindle edition, Amazon Digital Services, 2014.
4. Michalewicz, Z. and Michalewicz, M., *Puzzle-Based Learning: An Introduction to Critical Thinking, Mathematics, and Problem Solving*, Polish translation, 2nd (corrected) edition, PJWSTK, Warsaw, 2013.
5. Michalewicz, Z. and Fogel, D.B., *How to Solve It: Modern Heuristics*, Greek translation, Paschalidis Publishers, Athens, Greece, 2013.
6. Chiong, R., Weise, Th., and Michalewicz, Z. (Editors), *Variants of Evolutionary Algorithms for Real-World Applications*, Springer, New York, 2012.
7. Michalewicz, Z. and Michalewicz, M., *Puzzle-Based Learning: An Introduction to Critical Thinking, Mathematics, and Problem Solving*, Polish translation, PJWSTK, Warsaw, 2010.
8. Michalewicz, Z. and Michalewicz, M., *Puzzle-Based Learning: An Introduction to Critical Thinking, Mathematics, and Problem Solving*, Hybrid Publishers, Melbourne, Australia, 2008.
9. Hingston, P., Barone, L., and Michalewicz, Z. (Editors), *Design by Evolution*, Natural Computing Series, Springer, New York, 2008.
10. Michalewicz, Z. and Siarry, P. (Editors), *Advances in Metaheuristics for Hard Optimization*, Springer, New York, 2008.
11. Michalewicz, M. and Michalewicz, Z., *Winning Credibility: A guide for building a business from rags to riches*, 2nd extended edition, Hybrid Publishers, Melbourne, Australia, 2007.
12. Lima, C., Lobo, F., and Michalewicz, Z. (Editors), *Parameter Setting in Evolutionary Algorithms*, Springer Series Studies in Computational Intelligence, Springer, New York, 2007.
13. Michalewicz, Z., Schmidt, M., Michalewicz, M., Chiriach, C., *Adaptive Business Intelligence*, Springer, New York, 2007.
14. Michalewicz, M. and Michalewicz, Z., *Winning Credibility: A Guide for Building a Business from Rags to Riches*, Hybrid Publishers, Melbourne, Australia, 2006.
15. Michalewicz, Z. and Fogel, D.B., *How to Solve It: Modern Heuristics*, Polish

- translation, Wydawnictwa Naukowo-Techniczne, Warsaw, Poland, 2006.
16. Michalewicz, M. and Michalewicz, Z., *Wiarygodność: Klucz do Sukcesu w Biznesie*, Polish translation of *Winning Credibility: A Guide for Building a Business from Rags to Riches*, PJWSTK, Warsaw, Poland, 2005.
  17. Bolc, L., Michalewicz, Z., and Nishida, T. (Editors), *Proceedings of the Second Workshop on Intelligent Media Technology for Communicative Intelligence*, Springer, Lecture Notes in Computer Science, New York, 2005.
  18. Michalewicz, Z. and Fogel, D.B., *How to Solve It: Modern Heuristics*, 2nd extended edition, Springer, New York, 2004.
  19. Michalewicz, Z. and Fogel, D.B., *How to Solve It: Modern Heuristics*, Chinese translation, Beijing Multi-Channel Electronic Information Co., Beijing, 2003.
  20. Bäck, T., Fogel, D.B., and Michalewicz, Z. (Editors), *Evolutionary Computation: Advanced Algorithms and Operators*, Institute of Physics (IOP), London, 2000.
  21. Bäck, T., Fogel, D.B., and Michalewicz, Z. (Editors), *Evolutionary Computation: Basic Algorithms and Operators*, IOP, London, 2000.
  22. Michalewicz, Z. and Fogel, D.B., *How to Solve It: Modern Heuristics*, Springer, New York, 2000.
  23. Michalewicz, Z., *Genetic Algorithms + Data Structures = Evolution Programs*, Chinese translation, Science Press, Beijing, 2000.
  24. Michalewicz, Z., Schoenauer, M., Yao, X., and Zazala, A., *Proceedings of the Congress on Evolutionary Computation*, IEEE Press, Piscataway, NJ, Washington, DC, July 6 – 9, 1999, Vol.1, 2, and 3.
  25. Eiben, A.E. and Michalewicz, Z. (Editors), *Evolutionary Computation*, IOS Press, Amsterdam, 1998.
  26. Michalewicz, Z., *Genetic Algorithms + Data Structures = Evolution Programs*, Korean translation, Green Publishing Co., Seoul, 1998.
  27. Bäck, T., Michalewicz, Z., Xin, Y., (Editors), *Proceedings of the Fourth IEEE International Conference on Evolutionary Computation*, IEEE Press, Piscataway, NJ, Indianapolis, April 13 – 16, 1997.
  28. Dasgupta, D. and Michalewicz, Z., (Editors), *Evolutionary Algorithms in Engineering Applications*, Springer, New York, 1997.
  29. Bäck, T., Fogel, D.B., and Michalewicz, Z. (Editors), *Handbook of Evolutionary Computation*, joint publication of Oxford University Press and Institute of Physics, 1997.
  30. Michalewicz, Z., *Genetic Algorithms + Data Structures = Evolution Programs*, Polish translation, Wydawnictwa Naukowo-Techniczne, Warsaw, 1997.
  31. Bäck, T., Fukuda, T., Michalewicz, Z., (Editors), *Proceedings of the Third IEEE International Conference on Evolutionary Computation*, IEEE Press, Piscataway, NJ, Nagoya, May 20 – 22, 1996.
  32. Michalewicz, Z., *Genetic Algorithms + Data Structures = Evolution Programs*, Springer, New York, 3rd (extended) edition, 1996.
  33. Michalewicz, Z., Kitano, H., Schaffer, D., Schwefel, H.-P., Fogel, D.B., (Editors), *Proceedings of the First IEEE International Conference on Evolutionary Computation*, IEEE Press, Piscataway, NJ, Volume 2, Orlando, 27 – 29 June, 1994.
  34. Michalewicz, Z., Kitano, H., Schaffer, D., Schwefel, H.-P., Fogel, D.B., (Editors), *Proceedings of the First IEEE International Conference on Evolutionary Computation*, IEEE Press, Piscataway, NJ, Volume 1, Orlando, 27 – 29 June,

- 1994.
35. Michalewicz, Z., *Genetic Algorithms + Data Structures = Evolution Programs*, Springer, New York, 2nd (extended) edition, 1994.
  36. Michalewicz, Z., *Genetic Algorithms + Data Structures = Evolution Programs*, Springer, Artificial Intelligence Series, New York, 1992.
  37. Michalewicz, Z., (Editor), *Statistical and Scientific Databases*, Ellis Horwood, London, 1991.
  38. Michalewicz, Z., (Editor), *Proceedings of the 5th International Conference on Statistical and Scientific Database Management*, Charlotte, NC, April 3 – 5, 1990, Springer, Lecture Notes in Computer Science, No.420.
  39. Michalewicz, Z., *Security of Statistical Databases*, Polish Scientific Publishers, Warsaw, 1982 (in Polish).

### Chapters in Books:

1. Bonyadi, M.R., Michalewicz Z., Neumann, F. and Wagner, M., *Evolutionary Computation for Multi-component Problems: Opportunities and Future Directions*, in *Optimization in Industry – Present Practices and Future Scopes*, S. Datta and J. P. Davim (Editors), Springer, 2018.
2. Bonyadi, M.R. and Michalewicz, Z., *Evolutionary Computation for Real-world Problems*, in *Challenges in Computational Statistics and Data Mining*, Jan Mielniczuk and Stan Matwin (Editors), Springer, 2016.
3. Bonyadi, M.R. and Michalewicz, Z., *Locating Potentially Disjoint Feasible Regions of a Search Space with a Particle Swarm Optimizer*, in *Evolutionary Constrained Optimization*, Rituparna Datta and Kalyanmoy Deb (Editors), Springer, 2015.
4. Ibrahimov M., Mohais, A., Ozols, M., Schellenberg, S., and Michalewicz Z., *Advanced Planning in Vertically Integrated Wine Supply Chains*, in *Evolutionary Computation for Dynamic Optimization Problems*, Shengxiang Yang and Xin Yao (Editors), Springer, series on Studies in Computational Intelligence, 2013.
5. Sooriamurthi, R., Meyer, E., and Michalewicz, Z., *Puzzle-Based Learning*, in *Technology Enhanced Learning*, Jelena Jovanovic and Raymond Chiong (Editors), Informing Science Institute, 2013.
6. Michalewicz, Z. and Schoenauer, M., *Evolutionary Algorithms*, Encyclopedia of Operations Research & Management Science, Saul Gass and Michael Fu (Editors-in-Chief), 3rd Edition, Springer, 2012.
7. Michalewicz, Z., *Quo Vadis, Evolutionary Computation? On a growing gap between theory and practice*, Springer LNCS 7311, J. Liu, C. Alippi, B. Bouchon-Meunier, G. Greenwood, H. Abbass (Editors), pp. 98 – 121, 2012.
8. Blum, Ch., Chiong, R., Clerc, M., De Jong, K., Michalewicz, Z., Neri, F., and Weise, Th., *Evolutionary Optimization*, in Chiong, R., Weise, Th., and Michalewicz, Z. (Editors), *Variants of Evolutionary Algorithms for Real-World Applications*, Springer, 2012.
9. Schellenberg, S., Mohais, A., Ibrahimov M., Wagner N., and Michalewicz Z., *A Fuzzy-Evolutionary Approach to the Problem of Optimisation and Decision-Support in Supply Chain Networks*, in Chiong, R., Weise, Th., and Michalewicz, Z. (Editors), *Variants of Evolutionary Algorithms for Real-World Applications*, Springer, 2012.

10. Mohais, A., Ibrahimov M., Schellenberg, S., Wagner N., and Michalewicz Z., *An Evolutionary Approach to Practical Constraints in Scheduling: A Case-Study of the Wine Bottling Problem*, in Chiong, R., Weise, Th., and Michalewicz, Z. (Editors), *Variants of Evolutionary Algorithms for Real-World Applications*, Springer, 2012.
11. Falkner, N., Sooriamurthi, R., and Michalewicz, Z., *Puzzle-Based Learning: The First Three Years*, in Colin Kestell and Steven Grainger (Editors), *Engineering Education – An Australian Perspective*, Multi-Science Publishing, 2012.
12. Michalewicz, Z., Ibrahimov, M., and Mohais, A., *Application of Evolutionary Methods for Complex Industrial Problems*, chapter in *Evolutionary and Deterministic Methods for Design, Optimization, and Control*, T. Burczyński and J. Periaux (Editors), 2011.
13. Ibrahimov M., Mohais, A., Schellenberg, S., and Michalewicz Z., *Advanced Planning in Vertically Integrated Supply Chains*, in *Intelligent Decision Systems in Large-Scale Distributed Environments*, P. Bouvry, H. González-Vélez, and J. Kołodziej (Editors), Springer, 2011.
14. Michalewicz, Z. and Schoenauer, M., *Evolutionary Algorithms*, Wiley Encyclopedia of Operations Research and Management Science, 2011.
15. Avery, P. and Michalewicz, Z., *Adapting to Human Gamers using Coevolution*, in *Advances in Machine Learning*, J. Kacprzyk (Ed), Springer, 2010.
16. Buckley, M., Michalewicz, Z., and Zurbruegg, R., *An Application of Genetic Programming to Forecasting Foreign Exchange Rates*, Raymond Chiong (Editor), *Nature-Inspired Informatics for Intelligent Applications and Knowledge Discovery: Implications in Business, Science, and Engineering*, IGI Global, Hershey, PA, 2010.
17. Ghandar, A., Michalewicz, Z., and Zurbruegg, R., *Intelligent Decision Support: A Fuzzy Stock Ranking System*, M. Marciniak and A. Mykowiecka (Editors), *Aspects of Natural language Processing*, Lecture Notes in Computer Science 5070, Springer, 2009.
18. Wagner, N. and Michalewicz, Z., *Adaptive and Self-adaptive Techniques for Evolutionary Forecasting Applications Set in Dynamic and Uncertain Environments*, Ajith Abraham, Aboul Ella Hassanien and André Ponce de Leon F. de Carvalho (Editors), *Foundation in Computational Intelligence*, Vol.4, Springer, series Studies in Computational Intelligence, 2009.
19. Ibrahimov. M., Mohais, A., and Michalewicz, Z., *Global Optimization in Supply Chain Operations*, Raymond Chiong and Sandeep Dhakal (Editors), *Natural Intelligence for Scheduling, Planning and Packing Problems*, Springer, 2009.
20. Michalewicz, Z., *Adaptive Business Intelligence*, section in *Encyclopedia of Artificial Intelligence*, Rabuñal, J.R., Dorado, J. and Pazos, A., IGI Global, Hershey, PA May 2008.
21. Ghandar, A., Michalewicz, Z., Schmidt, M., To, T.-D., Zurbruegg, R., *Evolving Trading Rules*, chapter in *Success in Evolutionary Computation*, Yang, A., Shan, Y., and Bui, T. (Editors), Springer, 2008.
22. Michalewicz, Z. and Schmidt, M., *Parameter Control in Practice*, chapter in *Parameter Setting in Evolutionary Algorithms*, Lima, C., Lobo, F., and Michalewicz, Z. (Editors), Springer Series *Studies in Computational Intelligence*, 2007.
23. Wagner, N. and Michalewicz, Z., *Parameter Adaptation for GP Forecasting*

- Application*, chapter in *Parameter Setting in Evolutionary Algorithms*, Lima, C., Lobo, F., and Michalewicz, Z. (Editors), Springer Series *Studies in Computational Intelligence*, 2007.
24. Eiben, A.E., Michalewicz, Z., Schoenauer, M., and Smith, J., *Parameter Control in Evolutionary Algorithms*, chapter in *Parameter Setting in Evolutionary Algorithms*, Lima, C., Lobo, F., and Michalewicz, Z. (Editors), Springer Series *Studies in Computational Intelligence*, 2007.
  25. Michalewicz, Z. Schmidt, M., Michalewicz, M., and Chiriac, C., *Adaptive Business Intelligence: Three Case Studies*, chapter in *Evolutionary Computation in Dynamic and Uncertain Environments*, S. Yang, Y.S. Ong, and Y. Jin (Editors), Springer, 2007.
  26. Smierzchalski, R. and Michalewicz, Z., *Path Planning in Dynamic Environments*, chapter in *Innovations in Robot Mobility and Control*, S. Patnaik, L.C. Jain, S.G. Tzafestas, G. Resconi, and A. Konar (Editors), Springer, 2006.
  27. Michalewicz, Z., *Evolutionary Algorithms in Engineering Applications*, chapter in *Handbook on Theory and Engineering Applications of Computational Methods*, International Center for Numerical Methods in Engineering, Barcelona, Spain, 2005.
  28. Michalewicz, Z. and Schoenauer, M., *Evolutionary Algorithms*, in *Encyclopedia of Information Systems*, Academic Press, 2003.
  29. Michalewicz, Z. and Schmidt, M., *TCG-2: A Test-case Generator for Non-linear Parameter Optimization Problems*, chapter in *Advances in Evolutionary Computations*, A. Ghosh and S. Tsutsui (Editors), Springer, 2003.
  30. Michalewicz, Z., Eiben, A.E., and Hinterding, R., *Parameter Selection*, chapter in *Evolutionary Computation*, Kluwer Academic, 2001.
  31. Michalewicz, Z. and Schmidt, M., *Evolutionary Algorithms and Constrained Optimization*, chapter in *Evolutionary Computation*, Kluwer Academic, 2001.
  32. Michalewicz, Z. and Schoenauer, M., *Evolutionary Algorithms*, in *Encyclopedia of Operations Research & Management Science*, 2nd edition, Kluwer Academic, 1999.
  33. Michalewicz, Z. and Schoenauer, M., *Evolutionary Algorithms for Constrained Parameter Optimization Problems*, chapter in *Evolutionary Computations and Intelligent Systems*, Gordon and Breach, 1999.
  34. Xiao, J. and Michalewicz, Z., *An Evolutionary Computation Approach to Planning and Navigation*, chapter in *Soft-Computing and Mechatronics*, K. Hirota and T. Fukuda (Editors), Physica-Verlag, 1999.
  35. Michalewicz, Z., Hinterding, R., and Michalewicz, M., *Evolutionary Algorithms*, Chapter 2 in *Fuzzy Evolutionary Computation*, W. Pedrycz (Editor), Kluwer Academic, 1997.
  36. Dasgupta, D. and Michalewicz, Z., *Evolutionary Algorithms – An Overview*, Chapter 1 of *Evolutionary Algorithms in Engineering Applications*, D. Dasgupta and Z. Michalewicz (Editors), Springer, New York, 1997.
  37. Bäck, T. and Michalewicz, Z., *Test Landscapes*, section B2.7.4 of *Handbook of Evolutionary Computation*, Oxford University Press and Institute of Physics, New York, 1997.
  38. Michalewicz, Z., *Nonlinear optimization*, section G9.15 of *Handbook of Evolutionary Computation*, Oxford University Press and Institute of Physics, New York, 1997.

39. Michalewicz, Z., *The transportation problem*, section G9.14 of *Handbook of Evolutionary Computation*, Oxford University Press and Institute of Physics, New York, 1997.
40. Michalewicz, Z., *Handling constraints in genetic algorithms*, section G9.1 of *Handbook of Evolutionary Computation*, Oxford University Press and Institute of Physics, New York, 1997.
41. Michalewicz, Z., *Other constraint handling methods*, section C5.6 of *Handbook of Evolutionary Computation*, Oxford University Press and Institute of Physics, New York, 1997.
42. Michalewicz, Z., *Constraint-preserving operators*, section C5.5 of *Handbook of Evolutionary Computation*, Oxford University Press and Institute of Physics, New York, 1997.
43. Michalewicz, Z., *Repair algorithms*, section C5.4 of *Handbook of Evolutionary Computation*, Oxford University Press and Institute of Physics, New York, 1997.
44. Michalewicz, Z., *Decoders*, section C5.3 of *Handbook of Evolutionary Computation*, Oxford University Press and Institute of Physics, New York, 1997.
45. Michalewicz, Z., *Introduction*, section C5.1 of *Handbook of Evolutionary Computation*, Oxford University Press and Institute of Physics, New York, 1997.
46. Michalewicz, Z., *Introduction*, section C3.1 of *Handbook of Evolutionary Computation*, Oxford University Press and Institute of Physics, New York, 1997.
47. Michalewicz, Z., *Derivative methods: Hybrid methods*, section B1.5.3 of *Handbook of Evolutionary Computation*, Oxford University Press and Institute of Physics, New York, 1997.
48. Michalewicz, Z., *Genetic Algorithms*, in *Encyclopedia of Operations Research & Management Science*, C. Harris and S. Gass (Editors), Kluwer Academic, 1996, pp.250 – 252.
49. Michalewicz, Z. and Michalewicz, M., *Pro-Life versus Pro-Choice Strategies in Evolutionary Computation Techniques*, Chapter 10 in *Computational Intelligence: A Dynamic System Perspective*, M. Palaniswami, Y. Attikiouzel, R.J. Marks, D. Fogel, and T. Fukuda (Editors), IEEE Press, 1995, pp.137 – 151.
50. Michalewicz, Z., *Evolutionary Computation and Heuristics*, Chapter 3 in *Meta-heuristics: Theory & Applications*, I.H. Osman and J.P. Kelly (Editors), Kluwer Academic, 1995.
51. Michalewicz, Z., *Security of a Statistical Database*, Chapter 13 in *Statistical and Scientific Databases*, Ellis Horwood, 1991.

#### **Articles in Journals:**

1. Michalewicz, Z., *A personal perspective on Evolutionary Computation: A 35-year journey*, *Evolutionary Computation*, Vol. 31, No. 2, pp. 123 – 155, July 2023.
2. Olech, Ł., Szytkowski, M., Kwaśnicka, H., and Michalewicz, Z., *Hierarchical Data Generator based on Tree-Structured Stick Breaking Process for Benchmarking Clustering Methods*, *Information Sciences*, Vol. 554, pp. 99 – 119, April 2021.
3. Przybyłek, M.R., Wierzbicki, A., and Michalewicz, Z., *Decomposition Algorithms for a Multi-hard Problem*, *Evolutionary Computation*, Vol. 26, No. 3, pp. 507 – 533, September 2018.
4. Bonyadi, M.R., and Michalewicz, Z., *Impacts of Coefficients on Movement*

- Patterns in the Particle Swarm Optimization Algorithm*, IEEE Transactions on Evolutionary Computation, Vol. 21, No. 3, pp. 378 – 390, June 2017.
5. Bonyadi, M.R. and Michalewicz, Z., *Particle Swarm Optimization for Single Objective Continuous Space Problems: A Review*, Evolutionary Computation, Vol. 25, No. 1, pp. 1 – 54, 2017.
  6. Bonyadi, M.R. and Michalewicz, Z., *Stability Analysis of the Pparticle Swarm Optimization without Stagnation*, IEEE Transactions on Evolutionary Computation, Vol. 20, No. 5, pp. 814 – 819, October 2016.
  7. Bonyadi, M.R. and Michalewicz, Z., *Analysis of Stability, Local Convergence, and Transformation Sensitivity of a Variant of Particle Swarm Optimization Algorithm*, IEEE Transactions on Evolutionary Computation, Vol. 20, No. 3, pp. 370-385, June 2016.
  8. Bonyadi, M.R., Michalewicz, Z., Nallaperuma, S., and Neumann, F., *Ahura: A Heuristic-based Racer for Simulated Car Racing*, IEEE Transactions on Computational Intelligence and AI in Games, Vol. 9, No. 3, pp. 290 – 304, May 2016.
  9. Ghandar, A., Michalewicz, Z., and Zurbruegg, R., *The Relationship between Model Complexity and Forecasting Performance for Computer Intelligence Optimization in Finance*, International Journal of Forecasting, Vol. 32, No. 3, pp. 598 – 613, 2016.
  10. Zhang, R. Chiong, R., Michalewicz, Z. and Chang P.-C., *Sustainable Scheduling of Manufacturing and Transportation Systems*, European Journal of Operations Research, Vol. 248, No. 3, pp. 741 – 743, February 2016.
  11. Bonyadi, M.R., Li, X., and Michalewicz, Z., *A Hybrid Particle Swarm with a Time-adaptive Topology for Constrained Optimization*, Swarm and Evolutionary Computation, Vol. 18, No. 1, pp. 22 – 37, 2014.
  12. Bonyadi, M.R. and Michalewicz, Z., *A Locally Convergent Rotational Invariant Particle Swarm Optimizer*, Swarm Intelligence, Vol. 8, No. 3, pp. 159 – 198, 2014.
  13. Bonyadi, M.R. and Michalewicz, Z., *An Analysis of the Velocity Updating Rule of Particle Swarm Optimization Algorithm*, Journal of Heuristics, Vol. 20, No. 4, pp. 417 – 452, 2014.
  14. Weise, Th., Chiong, R., Lässig, J., Tang, K., Tsutsui, S., Chen, W., Michalewicz, Z., and Yao, X., *Benchmarking Optimization Algorithms: An Open Source Framework for the Traveling Salesman Problem*, IEEE Computational Intelligence Magazine, Vol. 9, No. 3, pp. 40 – 52, August 2014.
  15. Abello, M. and Michalewicz, Z., *Implicit Memory-Based Technique in Solving Dynamic Scheduling Problems Through Response Surface Methodology - Part II*, International Journal of Intelligent Computing and Cybernetics, Vol. 7, No. 2, pp.143 – 174, 2014.
  16. Abello, M. and Michalewicz, Z., *Implicit Memory-Based Technique in Solving Dynamic Scheduling Problems Through Response Surface Methodology - Part I*, International Journal of Intelligent Computing and Cybernetics, Vol. 7, No. 2, pp.114 – 142, 2014.
  17. Abello, M. and Michalewicz, Z., *Multi-Objective Resource-Constrained Project Scheduling with Time-varying Number of Tasks*, The Scientific World Journal, special issue on Recent Advances in Information Technology, Volume 2014, Article ID 420101, 35 pages, 2014.

18. Li, X., Bonyadi, M.R., Michalewicz, Z., and Barone, L., *A Hybrid Evolutionary Algorithm for Wheat Blending Problem*, The Scientific World Journal, special issue on Recent Advances on Bioinspired Computation, Volume 2014, Article ID 967254, 13 pages, 2014.
19. Ibrahimov M., Mohais, A., Schellenberg, S., and Michalewicz Z., *Scheduling in Iron Ore Open-pit Mining*, International Journal of Advanced Manufacturing Technology, Vol. 72, Issue 5-8, pp. 1021 – 1037, May 2014.
20. Stolk, J., Manna, I., Mohais, A., and Michalewicz, Z., *Combining Vehicle Packing and Routing for Optimal Delivery Schedules of Water Tanks*, OR Insight, Vol. 26, No. 3, pp.167–190, 2013.
21. Ibrahimov M., Mohais, A., Schellenberg, S., and Michalewicz Z., *Evolutionary Approaches for Supply Chain Optimisation – Part 2*, International Journal of Intelligent Computing and Cybernetics, Vol. 5, Issue 4, pp.473 – 499, 2012.
22. Ibrahimov M., Mohais, A., Schellenberg, S., and Michalewicz Z., *Evolutionary Approaches for Supply Chain Optimisation – Part 1*, International Journal of Intelligent Computing and Cybernetics, Vol. 5 Issue 4, pp.444 – 472, 2012.
23. Michalewicz, Z., *The Emperor is Naked: Evolutionary Algorithms for Real-World Applications*, ACM Ubiquity, November 2012, pp. 1 – 13.
24. Falkner, N., Sooriamurthi, R., and Michalewicz, Z., *Teaching Puzzle-based Learning: Development of Transferable Skill*, Teaching Mathematics and Computer Science, Vol. 10, No. 2, 2012, pp. 245 – 268.
25. Falkner, N., Sooriamurthi, R., and Michalewicz, Z., *Teaching Puzzle-based Learning: Development of Basic Concepts*, Teaching Mathematics and Computer Science, Vol.10, No.1, 2012, pp.183 – 204.
26. Bui, L., Michalewicz, Z., Parkinson, E. and Abello, M., *Adaptation in Dynamic Environments: A Case Study in Mission Planning*, IEEE Transactions on Evolutionary Computation, Vol.16, No.2, April 2012, pp.190 – 209.
27. Michalewicz, Z., Sooriamurthi, R., and Falkner, N., *Puzzle-Based Learning: An Introduction to Critical Thinking and Problem Solving*, Decision Line, Vol.42, No.5, October 2011, pp. 6 – 9.
28. Wagner, N., Michalewicz Z., Schellenberg, S., Chiriac, C., Ibrahimov M., and Mohais, A., *Intelligent Techniques for Forecasting Multiple Time Series in Real-world Systems*, International Journal of Intelligent Computing and Cybernetics, Vol.4, No.3, 2011, pp. 284 – 310.
29. Falkner, N., Sooriamurthi, R., and Michalewicz, Z., *Puzzle-Based Learning for Engineering and Computer Science*, IEEE Computer, Vol. 43, No. 4, April 2010, pp. 20 – 28.
30. Kotowski, S., Kosiński, W., Michalewicz, Z., Synak, P., Brocki, W., *On Stability and Classification Tools for Genetic Algorithms*, Fundamenta Informaticae, Vol. 96, No. 4, December 2009, pp. 477 – 491.
31. Ghandar, A., Michalewicz, Z., Schmidt, M., To, T.-D., and Zurbrugg, R., *Computational Intelligence for Evolving Trading Rules*, IEEE Transactions on Evolutionary Computation, Vol. 13, No. 1, February 2009, pp. 71 – 86.
32. Ghandar, A., Michalewicz, Z., and Zurbrugg, R., *Return Performance Volatility and Adaptation in an Automated Technical Analysis Approach to Portfolio Management*, Journal of Intelligent Systems in Accounting and Finance Management, Vol. 16, No. 1, January 2009, pp. 127 – 146.
33. Wagner, N., Khouja, M., Michalewicz, Z., and McGregor, R.R., *Forecasting*

- Economic Time Series with the DyFor Genetic Program Model*, Journal of Applied Financial Economics, Vol. 18, No. 5, March 2008, pp. 357 – 378.
34. Michalewicz, Z. and Michalewicz, M., *Machine Intelligence, Adaptive Business Intelligence, and Natural Intelligence*, IEEE Computational Intelligence Magazine, Vol.3, No. 1, February 2008, pp. 54 – 63.
  35. Avery, P., Michalewicz, Z., and Schmidt, M., *Short and Long Term Memory in Coevolution*, International Journal of Information Technology and Intelligent Computing, Vol.3, No.1, 2008.
  36. Wagner, N., Michalewicz, Z., Khouja, M., and McGregor, R.R., *Time Series Forecasting for Non-static Environments: the DyFor Genetic Program Model*, IEEE Transactions on Evolutionary Computation, Vol. 11, No.4, 2007, pp. 433 – 452.
  37. Johnson, R.W., Melich, M., Michalewicz, Z., and Schmidt, M., *Coevolutionary Optimization of Fuzzy Logic Intelligence for Strategic Decision Support*, IEEE Transactions on Evolutionary Computation, Vol. 9, No. 6, 2005, pp. 682 – 694.
  38. Michalewicz, Z., Schmidt, M., Michalewicz, M., and Chiriach, C., *A Decision-Support System based on Computational Intelligence: A Case Study*, IEEE Intelligent Systems, Vol.20, No.4, July-August 2005, pp. 44 – 49.
  39. Vergara, F.E., Khouja, M., and Michalewicz, Z., *An Evolutionary Algorithm for Optimizing Material Flow in Supply Chains*, Computers & Industrial Engineering, Vol.43, 2002, pp. 407 – 421.
  40. Ursem, R.K., Krink, T., Jensen, M.T., and Michalewicz, Z., *Analysis and Modeling of Control Tasks in Dynamic Systems*, IEEE Transactions on Evolutionary Computation, Vol.6, No.4, 2002, pp. 378 – 389.
  41. Michalewicz, Z., *Two Aspects of Evolutionary Algorithms*, Wuhan University Journal of Natural Sciences, Vol.4, No.4, 2000, pp. 413 – 424.
  42. Khouja, M., Michalewicz, Z., and Satoskar, S., *A Comparison between Genetic Algorithms and the RAND Method for Solving the Joint Replenishment Problem*, Production Planning & Control, Vol.11, No.6, 2000, pp. 556 – 564.
  43. Michalewicz, Z., Deb, K., Schmidt, M., and Stidsen, T., *Test-case Generator for Constrained Parameter Optimization Techniques*, IEEE Transactions on Evolutionary Computation, Vol.4, No.3, 2000, pp. 197 – 215.
  44. Kieś, P. and Michalewicz, Z., *Foundations of Genetic Algorithms*, Matematyka Stosowana, Vol.1, No.42, Warsaw, 2000, pp. 68 – 91 (in Polish).
  45. Śmierzchalski, R. and Michalewicz, Z., *Modeling of Ship Trajectory in Collision Situations by an Evolutionary Algorithm*, IEEE Transactions on Evolutionary Computation, Vol.4, No.3, 2000, pp. 227 – 241.
  46. Trojanowski, K. and Michalewicz, Z., *Evolutionary Optimization in Non-Stationary Environments*, Journal of Computer Science & Technology, special issue on Artificial Intelligence and Evolutionary Computation, Vol.1, No.2, 2000, pp. 93 – 124.
  47. Michalewicz, Z., *Seven Methods for Transforming Corporate Data into Business Intelligence*, review, Emergence: A Journal of Complexity Issues in Organizations and Management, Vol.1, No.2, 1999, pp. 190 – 192.
  48. Fogel, D.B. and Michalewicz, Z., *Why Evolutionary Algorithms?* Bulletin of the European Association for Theoretical Computer Science, No. 68, June 1999, pp. 115 – 133.
  49. Eiben, A.E., Hinterding, R., and Michalewicz, Z., *Parameter Control in*

- Evolutionary Algorithms*, IEEE Transactions on Evolutionary Computation, Vol.3, No.2, 1999, pp. 124 – 141.
50. Michalewicz, Z., Esquivel, S., Gallard, R., Michalewicz, M., Tao, G., and Trojanowski, K., *The Spirit of Evolutionary Algorithms*, Journal of Computing and Information Technology, special issue on Evolutionary Computing, Vol.7, No.1, 1999, pp. 1 – 18.
  51. Koziel, S. and Michalewicz, Z., *Evolutionary Algorithms, Homomorphous Mappings, and Constrained Parameter Optimization*, Evolutionary Computation, Vol.7, No.1, 1999, pp. 19 – 44.
  52. Khouja, M., Michalewicz, Z., and Wilmot, M., *The Use of Genetic Algorithms to Solve the Lot Size Scheduling Problem*, European Journal of Operations Research, Vol.110, 1998, pp. 509 – 524.
  53. Wiecek, J.P., Gol, O., and Michalewicz, Z., *An Evolutionary Algorithm for the Optimal Design of Electromagnetic Devices*, IEEE Transactions on Magnetics, Vol.34, No.6, November 1998, pp. 3882 – 3887.
  54. Khouja, M., Michalewicz, Z., and Vijayaragavan, P., *Evolutionary Algorithm for Economic Lot and Delivery Scheduling Problem*, Fundamenta Informaticae, Vol.35, No.1 – 4, August 1998, pp. 113 – 123.
  55. Cao, H., Kang, L., Michalewicz, Z., and Chen, Y., *A Hybrid Evolutionary Modeling Algorithm for System of Ordinary Differential Equations*, Neural, Parallel and Scientific Computations, Vol.6, No.2, June 1998, pp. 171 – 188.
  56. Hinterding, R. and Michalewicz, Z., *Does Parent Matching Work for Constrained Optimisation?*, Australian Journal of Intelligent Information Processing Systems, the special issue on *Intelligent and Evolutionary Systems*, Vol.4, No.3 – 4, Spring/Summer 1997, pp. 186 – 195.
  57. Schoenauer, M. and Michalewicz, Z., *Evolutionary Computation*, Control and Cybernetics, Vol.26, No.3, 1997, pp. 307 – 338.
  58. Xiao, J., Michalewicz, Z., Zhang, L., and Trojanowski, K., *Adaptive Evolutionary Planner/Navigator for Mobile Robots*, IEEE Transactions on Evolutionary Computation, Vol.1, No.1, 1997, pp. 18 – 28.
  59. Michalewicz, Z. and Schoenauer, M., *Evolutionary Algorithms for Constrained Parameter Optimization Problems*, Evolutionary Computation, Vol.4, No.1, 1996, pp. 1 – 32.
  60. Michalewicz, Z. and Michalewicz, M., *Evolutionary Computation: Main Paradigms and Current Directions*, Journal of Applied Mathematics and Computer Science, Vol.6, No.3, 1996, pp. 393 – 413.
  61. Michalewicz, Z., Dasgupta, D., Le Riche, R.G., and Schoenauer, M., *Evolutionary Algorithms for Constrained Engineering Problems*, Computers & Industrial Engineering Journal, Vol.30, No.4, September 1996, pp. 851 – 870.
  62. Michalewicz, Z., *Heuristic Methods for Evolutionary Computation Techniques*, Journal of Heuristics, Vol.1, No.2, 1995, pp. 177 – 206.
  63. Michalewicz, Z., *Evolutionary Computation: Toward a New Philosophy of Machine Intelligence*, review, IEEE Transactions on Neural Networks, Vol.6, No.5, September 1995, p. 1304.
  64. Michalewicz, Z., *Genetic Algorithms in Optimization, Simulation and Modeling*, review, Control Engineering Practice, Vol.3, No.7, July 1995, pp.1053 – 1054.
  65. Michalewicz, Z., *Genetic Programming*, review, IEEE Computer, Vol.28, No.2, February 1995, pp. 108 – 109.

66. Michalewicz, Z., *Nonstandard Methods in Evolutionary Computation*, Statistics and Computing, special issue on evolutionary computation, Vol.4, No.2, 1994, pp. 141 – 155.
67. Michalewicz, Z., *Evolutionary Computation*, Statistics and Computing, special issue on evolutionary computation, Vol.4, No.2, 1994, pp. 49 – 50.
68. Muddappa, S., Makki, R., Michalewicz, Z., and Isukapalli, S., *A New Tool for Encoding Finite State Machines Based on Evolution Programs*, Journal of VLSI Design, special issue on Logic Synthesis, Vol.2, No.2, 1994, pp. 105 – 116.
69. Michalewicz, Z., *Evolutionary Computation Techniques for Nonlinear Programming Problems*, International Transactions in Operational Research, Vol.1, No.2, 1994, pp. 223 – 240.
70. Michalewicz, Z., *A Hierarchy of Evolution Programs: An Experimental Study*, Evolutionary Computation, Vol.1, No.1, 1993, pp. 51 – 76.
71. Michalewicz, Z. and Janikow, C., *GENOCOP: A Genetic Algorithm for Numerical Optimization Problems with Linear Constraints*, Communications of the ACM, December 1996 (accepted in 1991), p. 118.
72. Michalewicz, Z., Janikow, C., and Krawczyk, J., *A Modified Genetic Algorithm for Optimal Control Problems*, Computers & Mathematics with Applications, Vol.23, No.12, 1992, pp. 83 – 94.
73. Michalewicz, Z., and Janikow, C., *Genetic Algorithms for Numerical Optimization*, Statistics and Computing, Vol.1, No.2, 1991, pp. 75 – 91.
74. Michalewicz, Z., Vignaux, G.A., and Hobbs, M., *A Non-Standard Genetic Algorithm for the Nonlinear Transportation Problem*, ORSA Journal on Computing, Vol.3, No.4, 1991, pp. 307 – 316.
75. Jankowski, A., and Michalewicz, Z., *Closed Sets of Boolean Terms in Relational Databases*, Fundamenta Informaticae, Vol. XIV, No.3, March 1991, pp. 367 – 385.
76. Vignaux, G.A., and Michalewicz, Z., *A Genetic Algorithm for the Linear Transportation Problem*, IEEE Transactions on Systems, Man, and Cybernetics, Vol.21, No.2, 1991, pp. 445 – 452.
77. Michalewicz, Z., *A Genetic Algorithm for Statistical Database Security*, IEEE Bulletin on Database Engineering, Vol.13, No.3, September 1990, pp. 19 – 26.
78. Michalewicz, Z., *Current Research in Statistical and Scientific Databases: the VSSDBM*, IEEE Bulletin on Database Engineering, Vol.13, No.3, September 1990, pp. 2 – 3.
79. Michalewicz, Z. and Chen, K-W., *Uncertain Information in Relational Databases*, International Journal on Policy and Information, Vol.13, No.2, December 1989, pp. 187 – 202.
80. Michalewicz, Z., and Yeo, A., *A Good Normal Form for Relational Databases*, Fundamenta Informaticae, Vol.XII, No.2, June 1989, pp. 129 – 138.
81. Michalewicz, Z., and Groves, L., *Algebraic Operations on Restricted Cardinality Sets in Relational Databases*, Fundamenta Informaticae, Vol.XII, No.1, March 1989, pp. 13 – 27.
82. Michalewicz, Z., and Yeo, A., *Multiranges and Multitrackers in Statistical Databases*, Fundamenta Informaticae, Vol.X, No.4, December 1987, pp.41 – 48.
83. Ozsoyoglu, G., Cigrang, M., Cooper, B., Ive, G., Makris, G., McLeish, M., Michalewicz, Z., and Schmidt, P., *Security of Statistical Databases*, Statistical Software Newsletter, Vol.13, No.1, April 1987, pp. 19 – 20.

84. Michalewicz, Z., *Functional Dependencies and their Connection with Security of Statistical Databases*, Information Systems, Vol.12, No.1, 1987, pp. 17 – 27.
85. Michalewicz, Z., *A Coin-Weighing Problem and its Connection with Security of a Statistical Database*, Fundamenta Informaticae, Vol.X, No.1, March 1987, pp. 81 – 91.
86. Michalewicz, Z., *Inference Control in Statistical Databases with Incomplete Information*, Information Systems, Vol.8, No.3, 1983, pp. 177 – 185.
87. Michalewicz, Z., *Compromisability of a Statistical Database*, Information Systems, Vol.6, No.3, 1981, pp. 301 – 304.

### Conference Proceedings:

1. Li, X., Shemshadi, A., Olech, L.P., and Michalewicz, Z., *Customer Wallet Share Estimation for Manufacturers based on Transactions Data*, Proceedings of the Australasian Data Mining Conference (AusDM2019), Adelaide, Australia, December 2 – 5, 2019.
2. Abedi, M., Chiong, R., Athauda, R., Seidgar, H., Michalewicz, Z., and Sturt, A., *A Regional Multi-Objective Tabu Search Algorithm for a Green Heterogeneous Dial-A-Ride Problem*, Proceedings of the 2013 IEEE Congress on Evolutionary Computation, Wellington, New Zealand, June 10 – 13, 2019.
3. Schellenberg, S., Li, X., and Michalewicz, Z., *Preliminary study on solving coal processing and blending problems using lexicographic ordering*, LNCS/LNAI Proceedings of the AI'17, Melbourne, Australia, August 19 – 25, 2017.
4. Przybyłek, M.R., Wierzbicki, A., and Michalewicz, Z., *Multi-hard Problems in Uncertain Environment*, Proceedings of the Genetic and Evolutionary Computation Conference (GECCO), Denver, Colorado, USA, July 20 – 24, 2016.
5. Schellenberg, S., Li, X., and Michalewicz, Z., *Benchmarks for the Coal Processing and Blending Problem*, Proceedings of the Genetic and Evolutionary Computation Conference (GECCO), Denver, Colorado, USA, July 20 – 24, 2016.
6. Bonyadi, M.R., Wagner, M., and Michalewicz Z., *Beyond the Edge of Feasibility: Analysis of Bottlenecks*, Proceedings of the 10th International Conference on Simulated Evolution and Learning (SEAL'14), Otago, New Zealand, December 15 – 19, 2014.
7. Bonyadi, M.R., Przybyłek, M.R., Wierzbicki, A., and Michalewicz Z., *Socially Inspired Algorithms for the Travelling Thief Problem*, Proceedings of the Genetic and Evolutionary Computation Conference (GECCO), Vancouver, Canada, July 12 – 16, 2014.
8. Nallaperuma, S., Neumann, F., Bonyadi, M.R., Michalewicz, Z., *EVOR: An Online Evolutionary Algorithm for Car Racing Games* Proceedings of the Genetic and Evolutionary Computation Conference (GECCO), Vancouver, Canada, July 12 – 16, 2014.
9. Polyakovskiy, S., Bonyadi, M.R., Wagner, M., Neumann, F., and Michalewicz, Z., *A Comprehensive Benchmark Set and Heuristics for the Travelling Thief Problem*, Proceedings of the Genetic and Evolutionary Computation Conference (GECCO), Vancouver, Canada, July 12 – 16, 2014.
10. Bonyadi, M.R. and Michalewicz, Z., *SPSO2011 – Analysis of Stability, Local Convergence, and Rotation Sensitivity*, Proceedings of the Genetic and Evolutionary Computation Conference (GECCO), Vancouver, Canada, July 12 –

- 16, 2014.
11. Bonyadi, M.R. and Michalewicz, Z., *On the Edge of Feasibility: A Case Study of the Particle Swarm Optimizer*, Proceedings of the IEEE Congress of Evolutionary Computation (CEC), Beijing, China, July 6 – 11, 2014.
  12. Stolk, J., Manna, I., Mohais, A., and Michalewicz, Z., *Combining Vehicle Packing and Routing for Optimal Delivery Schedules of Water Tanks*, Proceedings of the International Congress on Modelling and Simulation (MODSIM), Adelaide, Australia, December 1st, 2013.
  13. Dasgupta, D., Ferebee, D.M., and Michalewicz, Z., *Applying Puzzle-Based Learning to Cyber-Security Education*, Proceedings of the 2013 Information Security Curriculum Development Conference (InfoSecCD2013), October 12, 2013, Kennesaw State University, Georgia.
  14. Li X., Bonyadi, M.R., Michalewicz, Z. and Barone, L., *Real-world Wheat Blending Problem Using Hybrid Evolutionary Algorithm*, Proceedings of the 2013 IEEE Congress on Evolutionary Computation, Cancun, Mexico, June 20 – 23, 2013.
  15. Bonyadi, M.R., Michalewicz, Z., and Barone, L., *Travelling Thief Problem: the First Step in Transition from Theoretical Problems to Realistic Problems*, Proceedings of the 2013 IEEE Congress on Evolutionary Computation, Cancun, Mexico, June 20 – 23, 2013.
  16. Osada, Y., While, L., Barone, L. and Michalewicz, Z., *Multi-mine Planning using a Multi-objective Evolutionary Algorithm*, Proceedings of the 2013 IEEE Congress on Evolutionary Computation, Cancun, Mexico, June 20 – 23, 2013.
  17. Bonyadi, M.R. and Michalewicz, Z., *A Hybrid Particle Swarm with Velocity Mutation for Constraint Optimization Problems*, Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2013), Amsterdam, Netherlands, July 6 – 10, 2013.
  18. Ghandar, A., Michalewicz, Z., and Zurbruegg, R., *Enhancing Profitability Through Interpretability in Algorithmic Trading with a Multiobjective Evolutionary Fuzzy System*, Proceedings of the 12th International Conference on Parallel Problem Solving from Nature (PPSN'12), Taormina, Italy, September 1 – 5, 2012.
  19. Abello, M., Michalewicz, Z., and Bui, L., *A Reactive-Proactive Approach for Solving Dynamic Scheduling with Time-varying Number of Tasks*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, Brisbane, Australia, June 10 – 15, 2012.
  20. Bonyadi, M.R. and Michalewicz, Z., *A Fast Particle Swarm Optimization Algorithm for the Multidimensional Knapsack Problem*, Proceedings of the 2012 IEEE Congress on Evolutionary Computation, Brisbane, Australia, June 10 – 15, 2012.
  21. Ghandar, A., Michalewicz, Z., and Zurbruegg, R., *A Case for Learning Simpler Rule Sets with Multiobjective Evolutionary Algorithms*, Proceeding of the RuleML Workshop at the Twenty-second International Joint Conference on Artificial Intelligence (IJCAI-2011), Barcelona, Spain, July 19-22, 2011.
  22. Parkinson, E., Ghandar, A., Michalewicz, Z., and Tuson, A., *Controlling the Tradeoff between Time and Quality by Considering the Reproductive Potential of Offspring*, Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2011), Dublin, Ireland, July 12 – 16, 2011.

23. Ibrahimov, M., Mohais, A., Schellenberg, S., and Michalewicz, Z., *Comparison of Cooperative and Classical Evolutionary Algorithms for Global Supply Chain Optimisation*, Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2011), Dublin, Ireland, July 12 – 16, 2011.
24. Ghandar, A. and Michalewicz Z., *Considerations of the Nature of the Relationship Between Generalization and Interpretability in Evolutionary Fuzzy Systems*, Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2011), Dublin, Ireland, July 12 – 16, 2011.
25. Parkinson, E., Ghandar, A., Michalewicz Z., and Tuson, A., *Estimating the Reproductive Potential of Offspring in Evolutionary Heuristics for Combinatorial Optimization Problems*, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, New Orleans, USA, June 5 – 8, 2011.
26. Ghandar, A. and Michalewicz Z., *Using Cellular Evolution for Diversification of the Balance Between Accurate and Interpretable Fuzzy Knowledge Bases for Classification*, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, New Orleans, USA, June 5 – 8, 2011.
27. Abello, M., Bui, L. and Michalewicz Z., *Adaptation in Dynamic Environments with Time-Varying Number of Tasks – Part II*, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, New Orleans, USA, June 5 – 8, 2011.
28. Abello, M., Bui, L. and Michalewicz Z., *Adaptation in Dynamic Environments with Time-Varying Number of Tasks – Part I*, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, New Orleans, USA, June 5 – 8, 2011.
29. Ibrahimov M., Mohais, A., Schellenberg, S., and Michalewicz Z., *Comparison of different evolutionary algorithms for global supply chain optimisation and parameter analysis*, Proceedings of the 2011 IEEE Congress on Evolutionary Computation, New Orleans, USA, June 5 – 8, 2011.
30. Ghandar, A. and Michalewicz, Z., *An Experimental Study of Multi-Objective Evolutionary Algorithms for Balancing Interpretability and Accuracy in Fuzzy Rulebase Classifiers for Financial Prediction*, Proceeding of the IEEE Symposium Series on Computational Intelligence, Paris, France, April 11 – 15, 2011.
31. Ghandar, A., Michalewicz, Z., and Zurbruegg, R., *Evolving Fuzzy Rules: Evaluation of a New Approach*, Proceeding of the Eight International Conference on Simulated Evolution and Learning (SEAL'10), IIT Kanpur, India, December 1 – 4, 2010.
32. Michalewicz, Z., Falkner, N, and Sooriamurthi, R., *Puzzle-Based Learning: An Introduction to Critical Thinking and Problem Solving*, Proceedings of the 2010 Decision Sciences Institute, San Diego, California, November 20 – 23, 2010.
33. Bui, L. and Michalewicz Z., *A Computational Framework for Adaptation in Military Mission Planning*, Proceedings of the Second International Conference on Knowledge and Systems Engineering (KSE 2010), Hanoi, Vietnam, October 7 – 9, 2010.
34. Ghandar, A., Michalewicz, Z., and Zurbruegg, R., *Interpretable Multi-Criteria Fuzzy Rule Based Decision Models for Hedge Fund Management*, Proceedings of the 2010 IEEE Congress on Evolutionary Computation, Barcelona, Spain, July 18 – 23, 2010.
35. Bui, L. and Michalewicz Z., *An Evolutionary Multi-objective Approach for Dynamic Mission Planning*, Proceedings of the 2010 IEEE Congress on

- Evolutionary Computation, Barcelona, Spain, July 18 – 23, 2010.
36. Ghandar, A., Michalewicz, Z., and Zurbruegg, R., *Index Tracking Fund Enhancement Using Evolving Multi-Criteria Fuzzy Decision Models*, Proceedings of the 2010 IEEE Congress on Evolutionary Computation, Barcelona, Spain, July 18 – 23, 2010.
  37. Kosiński, W., Kotowski, S., and Michalewicz Z., *May Evolutionary Algorithm be Convergent and when it may Happen*, Proceedings of the 2010 IEEE Congress on Evolutionary Computation, Barcelona, Spain, July 18 – 23, 2010.
  38. Ibrahimov M., Wagner N., Mohais, A., Schellenberg, S., and Michalewicz, Z., *Comparison of cooperative and classical evolutionary algorithms for global supply chain optimisation*, Proceedings of the 2010 IEEE Congress on Evolutionary Computation, Barcelona, Spain, July 18 – 23, 2010.
  39. Schellenberg, S., Mohais, A., Wagner N., Ibrahimov M., and Michalewicz Z., *Optimising supply chain networks by means of a hybridised simulation-based approach*, Proceedings of the 2010 IEEE Congress on Evolutionary Computation, Barcelona, Spain, July 18 – 23, 2010.
  40. Mohais, A., Ibrahimov M., Schellenberg, S., Wagner N., and Michalewicz, Z., *Time-Varying Constraints and Other Practical Problems in Real-World Scheduling Applications*, Proceedings of the 2010 IEEE Congress on Evolutionary Computation, Barcelona, Spain, July 18 – 23, 2010.
  41. Ibrahimov M., Wagner N., Mohais, A., Schellenberg, S., and Michalewicz, Z., *Comparison of multiobjective cooperative and classical evolutionary algorithms for global supply chain optimisation*, Proceedings of the 24th European Conference on Operational Research (EURO XXIV), session “Industrial applications of scheduling and routing”, stream “OR Applications in Industry”, Lisbon, Portugal, July 11 – 14, 2010.
  42. Michalewicz, M., Michalewicz, Z., and Spitty, R., *Optimising the Wine Supply Chain*, Proceedings of the Fourteen Australian Wine Industry Technical Conference (14 AWITC), Adelaide, Australia, July 4 – 7, 2010.
  43. Falkner, N., Sooriamurthi, R., and Michalewicz, *Puzzle-Based Learning: The first experiences*, Proceedings of the Twentieth Annual Conference of the Australasian Association for Engineering Education (AaeE’2009), Adelaide, Australia, December 6 – 9, 2009.
  44. Michalewicz, Z., Ibrahimov, M., and Mohais, A., *Applicational of Evolutionary Methods for Complex Industrial Problems*, Proceedings of EUROGEN’09, T. Burczyński and J. Periaux (Eds), 2009.
  45. Ghandar, A., Michalewicz, Z., and Zurbruegg, R., *Learning Multi-Criteria Fuzzy Rule based Decision Models for Hedge Fund Management*, Proceedings of the 8th Metaheuristic International Conference (MIC’09), Hamburg, Germany, July 13 – 16, 2009.
  46. Buckley, M., Ghandar, A. Michalewicz, Z. and Zurbruegg, R., *Evaluation of Intelligent Quantitative Hedge Fund Management*, Proceedings of the IEEE Congress on Evolutionary Computation, Thronheim, Norway, May 18 – 21, 2009.
  47. Avery, P., Michalewicz, Z. and Greenwood, G., *Adapting to Human Game Play*, Proceedings of the IEEE Symposium on Computational Intelligence and Games (CIG’08), Perth, Australia, December 15 – 18, 2008.
  48. Kroeske, J., Ghandar, A., Michalewicz, Z., and Neumann, F., *Learning Fuzzy*

- Rules with Evolutionary Algorithms-an Analytic Approach*, Proceedings of the 10th International Conference on Parallel Problem Solving from Nature (PPSN 2008), Dortmund, September 13 – 17, 2008.
49. Wagner, N. and Michalewicz, Z., *An Analysis of Adaptive Windowing for Times Series Forecasting in Dynamic Environments: Further Tests of the DyFor GP Model*, Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2008), Atlanta, Georgia, July 12 – 16, 2008.
  50. Kotowski, S., Kosiński, W., Michalewicz, Z., Nowicki, J., and Przepiórkiewicz, B., *Fractal Dimension of Trajectory as Invariant of Genetic Algorithms*, Proceedings of the International Conference on Artificial Intelligence and Soft Computing, Zakopane, Poland, June 22 – 26, 2008.
  51. Ghandar, A., Michalewicz, Z., To, T.-D., and Zurbruegg, R., *The Performance of an Adaptive Portfolio Management System*, Proceedings of the 2008 Congress on Evolutionary Computation (CEC2008), Hong Kong, June 1 – 6, 2008.
  52. Avery, P., Greenwood, G., and Michalewicz, Z., *Coevolving Strategic Intelligence*, Proceedings of the 2008 Congress on Evolutionary Computation (CEC2008), Hong Kong, June 1 – 6, 2008.
  53. Siaw, W. S., Lakos, C. Michalewicz, Z., and Schellenberg, S., *Experiments in Applying Evolutionary Algorithms to Software Verification*, Proceedings of the 2008 Congress on Evolutionary Computation (CEC2008), Hong Kong, June 1 – 6, 2008.
  54. Ghandar, A., Michalewicz, Z., Schmidt, M., To, T., and Zurbruegg, R., *Computational Intelligence for Evolving Trading Rules*, Proceedings of the 20th Annual Australasian Finance and Banking Conference, Sydney, December 12 – 14, 2007.
  55. Michalewicz, Z. and Michalewicz, M., *Puzzle-Based Learning*, Proceedings of the Eighteenth Annual Conference of the Australasian Association for Engineering Education (AaeE'2007), Melbourne, Australia, December 9 – 12, 2007.
  56. Ghandar, A., Michalewicz, Z., Schmidt, M., To, T., Zurbruegg, R., *A Computational Intelligence Portfolio Construction System for Equity Market Trading*, Proceedings of the 2007 Congress on Evolutionary Computation (CEC2007), Singapore, September 26 – 29, 2007.
  57. Avery, P. and Michalewicz, Z., *Static Experts and Dynamic Enemies in Coevolutionary Games*, Proceedings of the 2007 Congress on Evolutionary Computation (CEC2007), Singapore, September 26 – 29, 2007, pp. 4035 – 4042.
  58. Ghandar, A., Michalewicz, Z., Schmidt, M., To, T.-D., and Zurbruegg, R. *The Design and Performance of an Adaptive Evolutionary Algorithm for Technical Asset Allocation Management Decisions*. Proceedings of the 13th Intl Conf on Computing in Economics & Finance – Soc. for Computational Econ. 2007, Montréal, Quebec, Canada.
  59. Avery, P., Michalewicz, Z. and Schmidt, M., *A Historical Population in a Coevolutionary System*, Proceedings of the 2007 IEEE Symposium on Computational Intelligence and Games, Honolulu, Hawaii, April 1 – 5, 2007, pp.104 – 111.
  60. Ghandar, A., Michalewicz, Z., Schmidt, M., To, T., Zurbruegg, R., *The Performance of an Adaptive Evolutionary Algorithm for Asset Allocation Management Decisions*, presented at the Finance Conference, Adelaide,

December 2006.

61. Michalewicz, Z., Schmidt, M., Michalewicz, M., and Chiriac, C., *Evaluation Functions for Real Word Problems: A Case Study*, Proceedings of the 16th Mini-EURO Conference on Artificial Intelligence in Transportation, part of the 10th Meeting of the EURO Working Group Transportation (EWGT) on Advances in Modeling, Optimization, and Management of Transportation Processes and Systems: Theory and Practice, Poznań, Poland, September 13 – 16, 2005, A. Jaskiewicz, M. Kaczmarek, J. Żak, M. Kubiak (Editors), Publishing House of Poznań University of Technology, Poznań, 2005, pp. 24 – 33.
62. Schmidt, M., Michalewicz, Z., Michalewicz, M., and Chiriac, C., *Prediction and Optimization in a Dynamic Environment: A Case Study*, Proceedings of the 2005 Congress on Evolutionary Computation (CEC2005), Edinburgh, September 2 – 5, 2005, pp.781 – 788.
63. Michalewicz, Z., Schmidt, M., Michalewicz, M., and Chiriac, C., *Prediction and Optimization for Distribution and Transportation: A Case Study*, Proceedings of the 6th Metaheuristics International Conference, Vienna, Austria, August 22 – 26, 2005.
64. Michalewicz, Z., Schmidt, M., Michalewicz, M., and Chiriac, C., *Prediction, Distribution, and Transportation: A Case Study*, Proceedings of the International Symposium on Intelligent Computation and Its Applications, Wuhan, China, April 4 – 6, 2005, pp.545 – 557.
65. Wagner, N., Michalewicz, Z., Khouja, M., McGregor, R.R., *The DyFor Genetic Program Model: Time Series Forecasting with a Dynamic Data Window*, Proceedings of the International Symposium on Intelligent Computation and Its Applications, Wuhan, China, April 4 – 6, 2005.
66. Wagner, N., Michalewicz, Z., Khouja, M., McGregor, R.R., *Time Series Forecasting for Dynamic Environments: the DyFor Genetic Program Model*, Proceedings of the International Seminar on Soft Computing and Intelligent Systems (WISIS'04), O. Hryniewicz, J. Kacprzyk, J. Koronacki, S.T. Wierzczoń (Editors), *Issues in Intelligent Systems: Paradigms*, EXIT, Warsaw, 2005, pp.287 –308.
67. Wagner, N., Michalewicz, Z., Khouja, M., McGregor, R.R., *Forecasting with Dynamic Window of Time: the DyFor Genetic Program Model*, Proceedings of the International Workshop on Intelligent Media Technology for Communicative Intelligence, Warsaw, Poland, September 13 – 14, 2004, Springer, Lecture Notes in Artificial Intelligence, Vol. 3490, pp.205 – 215.
68. Johnson, R.W., Melich, M., Michalewicz, Z., Schmidt, M., and Wagner, N., *Coevolutionary Approach for Strategic Decision Support*, Proceedings of the 7th Asia-Pacific Conference on Complex Systems (Complex'2004), Cairns, Australia, December 6 – 10, 2004.
69. Michalewicz, Z., *Evolutionary Algorithms as Intelligent Component in Adaptive Systems*. Proceedings of the International Workshop on Intelligent Media Technology for Communicative Intelligence, Warsaw, Poland, September 13 – 14, 2004.
70. Johnson, R.W., Melich, M., Michalewicz, Z., and Schmidt, M., *Coevolutionary “TEMPO” Game*, Proceedings of the 2004 Congress on Evolutionary Computation (CEC2004), Portland, June 19 – 23, 2004.
71. Johnson, R.W., Melich, M., Michalewicz, Z., and Schmidt, M., *Coevolutionary*

- Processes for Strategic Decisions*, Proceedings of the International Workshop on Monitoring, Security, and Rescue Tasks in Multi-Agent Systems (MSRAS 2004), Płock, Poland, June 7 – 9, 2004.
72. Schutz, M., Leguizamón, G. and Michalewicz, Z., *An Ant System for the Maximum Independent Set Problem*, Proceedings of the VII Argentinian Congress on Computer Science (CACIC 2001), El Calafate, Argentina, October 2001, Vol.II, pp.1027-1040.
  73. Wagner, N. and Michalewicz, Z., *Genetic Programming with Efficient Population Control for Financial Time Series Prediction*, Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2001), Late Breaking Papers, pp.458 – 462.
  74. Pasupathy, K.M.K., Liu, J., Wilhelm, R.G., and Michalewicz, Z., *An Evolutionary Algorithm for Spatial Allocation of Fluidpower Valves on Valve-stand*, Proceedings of the 2001 Congress on Evolutionary Computation (CEC2001), Seoul, Korea, May 27 – 30, 2001, pp.228-295.
  75. Schmidt, M. and Michalewicz, Z., *Test-Case Generator TCG-2 for Nonlinear Parameter Optimization*, Proceedings of the 6th Parallel Problem Solving from Nature, Springer, Lecture Notes in Computer Science, Vol.1917, M. Schoenauer, K. Deb, G. Rudolph, X. Yao, E. Lutton, J.J. Merelo, and H.-P. Schwefel (Editors), Paris, September 17 – 20, 2000, pp.539 – 548.
  76. Schmidt, M. and Michalewicz, Z., *Test-Case Generator TCG-2 for Nonlinear Parameter Optimization*, Proceedings of the Congress on Evolutionary Computation, CEC'2000, San Diego, July 16 – 19, 2000, pp.728 – 735.
  77. Eiben, A.E., Jansen, B., Michalewicz, Z., and Paechter, B., *Solving CSPs with Using Self-adaptive Constraint Weights: How to prevent EAs from Cheating*, Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2000), Las Vegas, Nevada, July 8 – 12, 2000, pp. 128 – 134.
  78. Michalewicz, M., Juda-Rezler, K., Trojanowski, K., Matuszewski, A., Michalewicz, Z., Trojanowski, M., *Evolutionary Real-Time Optimization System for Ecological Power Control*, Proceedings of the Ninth International Symposium on Intelligent Information Systems (IIS'2000), Bystra, Poland, June 13 – 17, 2000, in *Advances in Soft Computing*, Physica-Verlag, pp.227 – 242.
  79. Krink, T., Mayoh, B.H., and Michalewicz, Z., *A Patchwork Model for Evolutionary Algorithms with Structured and Variable Size Populations*, Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-1999), Orlando, Florida, July 14 – 17, 1999, pp.1321 – 1328.
  80. Michalewicz, Z. and Michalewicz, M., *Teaching Evolutionary Algorithms*, Proceedings of the Congress on Evolutionary Computation, CEC'99, Washington DC, July 6 – 9, 1999, pp.1702 – 1706.
  81. Leguizamón, G. and Michalewicz, Z., *A New Version of the Ant System for Subset Problems*, Proceedings of the Congress on Evolutionary Computation, CEC'99, Washington DC, July 6 – 9, 1999, pp.1459 – 1464.
  82. Stidsen, T., Caprani, O., and Michalewicz, Z., *A Parabolic Operator for Parameter Optimization Problems*, Proceedings of the Congress on Evolutionary Computation, CEC'99, Washington DC, July 6 – 9, 1999, pp.1494 – 1500.
  83. Trojanowski, K. and Michalewicz, Z., *Searching for Optima in Non-stationary Environments*, Proceedings of the Congress on Evolutionary Computation, CEC'99, Washington DC, July 6 – 9, 1999, pp.1843 – 1850.

84. Michalewicz, Z., Deb, K., Schmidt, M., and Stidsen, T., *Towards Understanding Constrained-Handling Methods in Evolutionary Algorithms*, Proceedings of the Congress on Evolutionary Computation, CEC'99, Washington DC, July 6 – 9, 1999, pp.581 – 588.
85. Trojanowski, K. and Michalewicz, Z., *Evolutionary Algorithms for Non-stationary Environments*, Proceedings of the 8th International Symposium on Intelligent Systems (ISS'99), June 14 – 18, 1999, Ustronie/Wisła, Poland, pp.229 – 240.
86. Trojanowski, K. and Michalewicz, Z., *Evolutionary Approach to Non-stationary Optimisation Tasks*, Proceedings of the 11th International Symposium on Methodologies of Intelligent Systems, Lecture Notes in Artificial Intelligence, Vol.1609, Z.W. Raś and A. Skowron (Editors), Springer, pp. 538 – 546, June 8 – 11, 1999, Warsaw, Poland.
87. Michalewicz, Z., Deb, K., Schmidt, M., and Stidsen, T., *Evolutionary Algorithms for Engineering Applications*, Proceedings of EUROGEN'99, May 30 – June 3, 1999, Jyvaeskylae, Finland, pp.73 – 94.
88. Trojanowski, K. and Michalewicz, Z., *Extensions of Evolutionary Algorithms for Non-stationary Environments*, Proceedings of the 4th National Conference on Evolutionary Computation and Global Optimization, May 25 – 28, 1999, Potok Złoty, Poland.
89. Tao, G. and Michalewicz, Z., *Inver-over Operator for the TSP*, Proceedings of the 5th Parallel Problem Solving from Nature, Springer, Lecture Notes in Computer Science, Vol.1498, A.E. Eiben, T. Bäck, M. Schoenauer, and H.-P. Schwefel (Editors), Amsterdam, September 27 – 30, 1998, pp.803 – 812.
90. Kozieł, S. and Michalewicz, Z., *A Decoder-based Evolutionary Algorithm for Constrained Parameter Optimization Problems*, Proceedings of the 5th Parallel Problem Solving from Nature, Springer, Lecture Notes in Computer Science, Vol.1498, A.E. Eiben, T. Bäck, M. Schoenauer, and H.-P. Schwefel (Editors), Amsterdam, September 27 – 30, 1998, pp.231 – 240.
91. Cao, H., Kang, L., Michalewicz, Z., and Chen, Y., *A Two-level Evolutionary Algorithm for Modeling System of Ordinary Differential Equations*, Proceedings of the 3rd Annual Genetic Programming Conference, J. Koza et al. (Editors), July 22 – 25, 1998, University of Wisconsin-Madison, Morgan Kauffman, San Francisco, pp.17 – 22.
92. Michalewicz, Z., Esquivel, S., Gallard, R., Michalewicz, M., and Tao, G., *Some Remarks on Design of Evolutionary Algorithms*, presented at the 3rd On-line World Conference on Soft Computing in Engineering Design and Manufacturing (WSC3), Internet, June 21 – 30, 1998.
93. Kosiński, W., Weigl, M., and Michalewicz, Z., *Genetic Algorithms for Preprocessing of Data for Universal Approximators*, Proceedings of the 7th International Symposium on Intelligent Systems (ISS'98), June 15 – 19, 1998, Malbork, Poland.
94. Śmierzchalski, R. and Michalewicz, Z., *Adaptive Modeling of a Ship Trajectory in Collision Situations at Sea*, Proceedings of the 5th International Conference on Evolutionary Computation, Anchorage, Alaska, May 4 – 9, 1998, pp.342 – 347.
95. Hinterding, R. and Michalewicz, Z., *Your Brains and My Beauty: Parent Matching for Constrained Optimization*, Proceedings of the 5th International Conference on Evolutionary Computation, Anchorage, Alaska, May 4 – 9, 1998,

- pp.810 – 815.
96. Kosiński, W., Weigl, M., and Michalewicz, Z., *Evolutionary Domain Covering of an Inference System for Function Approximation*, Proceedings of the 7th Annual Conference on Evolutionary Programming, San Diego, March 25 – 27, 1998, Springer Lecture Notes in Computer Science, Vol.1447, V.W. Porto, N. Saravanan, D. Waagen, and A.E. Eiben (Editors), pp.167 – 178.
  97. Schoenauer, M. and Michalewicz, Z., *Sphere Operators and Their Applicability for Constrained Parameter Optimization Problems*, Proceedings of the 7th Annual Conference on Evolutionary Programming, San Diego, March 25 – 27, 1998, Springer Lecture Notes in Computer Science, Vol.1447, V.W. Porto, N. Saravanan, D. Waagen, and A.E. Eiben (Editors), pp.241 – 250.
  98. Hinterding, R. and Michalewicz, Z., *Does Parent Matching Work for Constrained Optimization?* Proceedings of the Australia-Japan Joint Workshop on Intelligent and Evolutionary Systems, (Edited by X. Yao, M. Gen, Y. Tsujimura and R.I. McKay), Canberra, Australia, November 21 – 22, 1997, pp.37 – 46.
  99. Michalewicz, Z. and Michalewicz, M., *Evolutionary Computation Techniques and Their Applications*, Proceedings of the IEEE International Conference on Intelligent Processing Systems, Beijing, China, October 28 – 31, 1997, pp.14 – 25.
  100. Trojanowski, K. and Michalewicz, Z., *Evolutionary Algorithms and the Problem-Specific Knowledge*, Proceedings of the Second National Conference on Evolutionary Computation and Global Optimization, Rytro, Poland, September 16 – 19, 1997, pp.281 – 292.
  101. Michalewicz, Z., *The Significance of the Evaluation Function in Evolutionary Algorithms*, Proceedings of the Workshop Evolutionary Algorithms, organized by Institute for Mathematics and Its Applications, University of Minnesota, Minneapolis, MN, October 21 – 25, 1996; Springer, Vol.111 of the *IMA Volumes in Mathematics and Its Applications*, L. Davis, K. De Jong, M. Vose, and D. Whitley (Editors), 1998, pp.151 – 166.
  102. Schoenauer, M. and Michalewicz, Z., *Boundary Operators for Constrained Parameter Optimization Problems*, Proceedings of the 7th International Conference on Genetic Algorithms, East Lansing, Michigan, July 19 – 23, 1997, pp.320 – 329.
  103. Trojanowski, K., Michalewicz, Z., and Xiao, J., *Adding Memory to an Evolutionary Planner/Navigator*, Proceedings of the 4th IEEE International Conference on Evolutionary Computation, Indianapolis, April 13 – 16, 1997, pp.483 – 487.
  104. Hinterding, R., Michalewicz, Z., and Eiben, A.E., *Adaptation in Evolutionary Computation: A Survey*, Proceedings of the 4th IEEE International Conference on Evolutionary Computation, Indianapolis, April 13 – 16, 1997, pp.65 – 69.
  105. Xiao, J., Zhang, L., and Michalewicz, Z., *On Topological Diversity and Multiple Path Planning*, Proceedings of the 2nd International Conference on Computational Intelligence and Neural Science, Research Triangle Park, North Carolina, March 1 – 4, 1997, pp.10 – 13.
  106. Hinterding, R., Michalewicz, Z., and Peachey, T.C., *Self-Adaptive Genetic Algorithm for Numeric Functions*, Proceedings of the 4th Parallel Problem Solving from Nature, H.-M. Voigt, W. Ebeling, I. Rechenberg, and H.-P.

- Schwefel (Editors), September 22 – 27, 1996, Springer, Lecture Notes in Computer Science, Vol.1141, pp.420 – 429.
107. Schoenauer, M. and Michalewicz, Z., *Evolutionary Computation at the Edge of Feasibility*, Proceedings of the 4th Parallel Problem Solving from Nature, H.-M. Voigt, W. Ebeling, I. Rechenberg, and H.-P. Schwefel (Editors), September 22 – 27, 1996, Springer, Lecture Notes in Computer Science, Vol.1141, pp.245 – 254.
  108. Michalewicz, Z., Xiao, J., and Trojanowski, K., *Evolutionary Computation: One Project, Many Directions*, Proceedings of the 9th International Symposium on Methodologies of Intelligent Systems, June 10 – 13, 1996, Zakopane, Poland, pp.189 – 201.
  109. Michalewicz, Z., *Engineering Design and Evolutionary Computation*, Proceedings of the Workshop on Genetic Algorithms and Engineering Design, M. Gen and K. Ida (Editors), Ashikaga Institute of Technology, Japan, May 24, 1996, pp.1 – 23.
  110. Michalewicz, Z., *Evolutionary Computation: Practical Issues*, Proceedings of the 3rd IEEE International Conference on Evolutionary Computation, May 20 – 22, 1996, Nagoya, Japan, pp.30 – 39.
  111. Xiao, J., Michalewicz, Z., and Zhang, L., *Evolutionary Planner/Navigator: Operator Performance and Self-Tuning*, Proceedings of the 3rd IEEE International Conference on Evolutionary Computation, May 20 – 22, 1996, Nagoya, Japan, pp.366 – 371.
  112. Michalewicz, Z., Nazhiyath, G., and Michalewicz, M., *A Note on Usefulness of Geometrical Crossover for Numerical Optimization Problems*, Proceedings of the 5th Annual Conference on Evolutionary Programming, L.J. Fogel, P.J. Angeline, and T. Bäck (Editors), MIT Press, Cambridge, MA, 1996, pp.305 – 312.
  113. Michalewicz, Z. and Nazhiyath, G., *Genocop III: A Co-evolutionary Algorithm for Numerical Optimization Problems with Nonlinear Constraints*, Proceedings of the 2nd IEEE International Conference on Evolutionary Computation, Vol.2, Perth, November 29 – December 1, 1995, pp.647 – 651.
  114. Esquivel, S., Gallard, R., and Michalewicz, Z., *MCPC: Another Approach to Crossover in Genetic Algorithms*, Proceedings of the First Argentinian Congress on Computer Science, Universidad del Sur, Bahia Blanca Argentina, October 6, 1995, pp.141 – 150.
  115. Michalewicz, Z., *Heuristics in Evolutionary Computation Methods*, Proceedings of the Metaheuristics International Conference (MIC-1), July 22 – 26, 1995, Breckenridge, Colorado, Kluwer Academic, pp.115 – 120.
  116. Michalewicz, Z., *Genetic Algorithms, Numerical Optimization and Constraints*, Proceedings of the 6th International Conference on Genetic Algorithms, Pittsburgh, July 15 – 19, 1995, pp.151 – 158.
  117. Michalewicz, Z., *Do Not Kill Unfeasible Individuals*, Proceedings of the Fourth Intelligent Information Systems Workshop (IIS'95), Dabrowski, Michalewicz, Raś (Editors), Augustów, Poland, June 5 – 9, 1995, pp.110 – 123.
  118. Michalewicz, Z. and Xiao, J., *Evaluation of Paths in Evolutionary Planner/Navigator*, Proceedings of the 1995 International Workshop on Biologically Inspired Evolutionary Systems, Tokyo, Japan, May 30 – 31, 1995, pp.45 – 52.

119. Michalewicz, Z., *Evolutionary Computation: An Overview*, Proceedings of the 8th Scandinavian Conference on Artificial Intelligence (SCAI '95), A. Aamodt and J. Komorowski (Editors), IOS Press, Vol.28, Trondheim, May 29 – 31 1995, pp.322 – 337.
120. Cassen, T., Subramanian, K., and Michalewicz, Z., *Near-Optimal Construction of Partitioning Trees by Evolutionary Techniques*, Proceedings of Graphics Interface '95, Quebec City, May 17 – 19, 1995, Morgan Kaufmann, San Mateo, pp.263 – 271.
121. Reynolds, R.G., Michalewicz, Z., and Cavaretta, M., *Using Cultural Algorithms for Constraint Handling in Genocop*, Proceedings of the 4th Annual Conference on Evolutionary Programming, J.R. McDonnell, R.G. Reynolds, and D.B. Fogel (Editors), MIT Press, Cambridge, MA, 1995, pp.289 – 305.
122. Michalewicz, Z., *A Survey of Constraint Handling Techniques in Evolutionary Computation Methods*, Proceedings of the 4th Annual Conference on Evolutionary Programming, MIT Press, Cambridge, MA, 1995, pp.135 – 155.
123. Michalewicz, Z., *A Perspective on Evolutionary Computation*, Proceedings of the Workshop on Evolutionary Computation, November 21 – 22, 1994, University of New England, Armidale, Australia, pp.76 – 93; also in X. Yao (Editor), *Progress in Evolutionary Computation*, Springer, Lecture Notes in Artificial Intelligence, Vol.956, Heidelberg, 1995, pp.73 – 89.
124. Michalewicz, Z. and Arabas, J., *Genetic Algorithms for the 0/1 Knapsack Problem*, Proceedings of the 8th International Symposium on Methodologies for Intelligent Systems, Charlotte, NC, October 16 – 19, 1994, Springer, Lecture Notes in Artificial Intelligence, Vol.869, pp.134 – 143.
125. Lin, H.-S., Xiao, J., and Michalewicz, Z., *Evolutionary Algorithm for Path Planning in Mobile Robot Environment*, Proceedings of the First IEEE International Conference on Evolutionary Computation, Orlando, June 27 – 29, 1994, pp.211 – 216.
126. Arabas, J., Michalewicz, Z., and Mulawka, J., *GAVaPS – a Genetic Algorithm with Varying Population Size*, Proceedings of the First IEEE International Conference on Evolutionary Computation, Orlando, June 27 – 29, 1994, pp.73 – 78.
127. Lin, H.-S., Xiao, J., and Michalewicz, Z., *Evolutionary Navigator for a Mobile Robot*, Proceedings of the IEEE International Conference on Robotics and Automation, IEEE Computer Society Press, New York, 1994, pp.2199 – 2204.
128. Michalewicz, Z., and Attia, N., *Evolutionary Optimization of Constrained Problems*, Proceedings of the 3rd Annual Conference on Evolutionary Programming, A.V. Sebald and L.J. Fogel (Editors), World Scientific, River Edge, NJ, 1994, pp.98 – 108.
129. Michalewicz, Z., Logan, T.D., and Swaminathan, S., *Evolutionary Operators for Continuous Convex Parameter Spaces*, Proceedings of the 3rd Annual Conference on Evolutionary Programming, A.V. Sebald and L.J. Fogel (Editors), World Scientific, River Edge, NJ, 1994, pp.84 – 97.
130. Michalewicz, Z., *Genetic Algorithms in Optimization Problems with Constraints*, Proceedings of the XIII World Conference on Operations Research IFORS '93, Section *Heuristics and AI-Related Methods*, July 12 – 16, 1993, Lisbon, Portugal.
131. Michalewicz, Z., *On Some Applications of Genetic Algorithms*,

- Proceedings of the Second Workshop on Intelligent Information Systems, Augustów, Poland, June 7 – 11, 1993, pp.61 – 83.
132. Michalewicz, Z. Schell, J., and Seniw, D., *Data Structures + Genetic Operators = Evolution Programs*, Proceedings of the Sixth International Symposium on Methodologies for Intelligent Systems, (Poster Session), Charlotte, NC, October 16 – 19, 1991, pp.107 – 118.
  133. Michalewicz, M. and Michalewicz, Z., *Automated Rules Generation*, Proceedings of the Sixth International Symposium on Methodologies for Intelligent Systems, Charlotte, NC, October 16 – 19, 1991, Springer, Lecture Notes in Artificial Intelligence, Vol.542, pp.389 – 398.
  134. Michalewicz, Z. and Janikow, C., *Handling Constraints in Genetic Algorithms*, Proceedings of the Fourth International Conference on Genetic Algorithms, San Diego, July 13 – 16, 1991, pp.151 – 157.
  135. Janikow, C. and Michalewicz, Z., *An Experimental Comparison of Binary and Floating Point Representations in Genetic Algorithms*, Proceedings of the Fourth International Conference on Genetic Algorithms, San Diego, July 13 – 16, 1991, pp.31 – 36.
  136. Michalewicz, Z., *A Step Towards Optimal Topology of Communication Networks*, Proceedings of the SPIE's International Symposium on Optical Engineering and Photonics in Aerospace Sensing, April 1 – 5, 1991, Orlando, Florida, pp.112 – 122.
  137. Michalewicz, Z., Krawczyk, J., Kazemi, M., Janikow, C., *Genetic Algorithms and Optimal Control Problems*, Proceedings of the 29th IEEE Conference on Decision and Control, Honolulu, Hawaii, December 5 – 7, 1990, pp.1664 – 1666.
  138. Janikow, C., and Michalewicz, Z., *Specialized Genetic Algorithms for Numerical Optimization Problems*, Proceedings of the Second International Conference on Tools for AI, Washington, November 6 – 9, 1990, pp.798 – 804.
  139. Michalewicz, Z., Jankowski, A., and Vignaux, G.A., *The Constraints Problem in Genetic Algorithms*, Proceedings of the International Symposium on Methodologies for Intelligent Systems, Selected Papers, (M.L. Emrich, M.S. Phifer, B. Huber, M. Zemankova, Z.W. Raś, Editors), International Center for the Application of Information Technology, Knoxville, October 25 – 27, 1990, pp.142 – 157.
  140. Groves, L., Michalewicz, Z., Elia, P., and Janikow, C., *Genetic Algorithms for Drawing Directed Graphs*, in Methodologies of Intelligent Systems, 5, (Z. Raś, M. Zemankova, and M. Emrich, Editors), North Holland, 1990, pp.268 – 276.
  141. Michalewicz, Z., Li, J-J., and Chen, K-W., *Optimal Distribution of Restricted Ranges in Secure Statistical Databases*, Proceedings of the 5th International Conference on Statistical and Scientific Database Management, Charlotte, April 3 – 5, 1990, Springer, Lecture Notes in Computer Science, No.420, pp.67 – 81.
  142. Vignaux, G.A., and Michalewicz, Z., *Genetic Algorithms for the Transportation Problem*, in Methodologies for Intelligent Systems, 4, (Z. Raś, Editor), North Holland, 1989, pp.252 – 259.
  143. Michalewicz, Z., Vignaux, G.A., and Groves, L., *Genetic Algorithms for Approximation and Optimization Problems*, Proceedings of the 11th NZ

- Computer Conference, Wellington, New Zealand, August 16 – 18, 1989, pp.211 – 223.
144. Jankowski, A., Michalewicz, Z., Raś, Z., and Shoff, D., *Issues on Evolution Programming, in Computing and Information*, (R. Janicki and W.W. Koczkodaj, Editors), North Holland, 1989, pp.459 – 463.
  145. Groves, L., and Michalewicz, Z., *A New Approach to Incomplete Information in Relational Databases*, Proceedings of the 12th Australian Computer Science Conference, Wollongong, February 8 – 10, 1989, pp.130 – 141.
  146. Michalewicz, Z., and Chen, K-W., *Uncertainty, Boolean Terms, and Possibilities in Relational Databases*, Proceedings of the International Computer Symposium, Taipei, Taiwan, December 15 – 17, 1988, pp.1213 – 1220.
  147. Chen, S., Michalewicz, Z., and Jankowski, A., *A Neural Network Approach to Database Systems*, Proceedings of the International Computer Symposium, Taipei, Taiwan, December 15 – 17, 1988, pp.1207 – 1212.
  148. Jankowski, A., and Michalewicz, Z., *Relational Data Bases with Structured Values of Attributes*, in Methodologies for Intelligent Systems, 3, (Z. Raś and L. Saitta, Editors), North Holland, 1988, pp.180 – 189.
  149. Michalewicz, Z., and Groves, L., *Sets and Uncertainty in Relational Databases*, Proceedings of the International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, Urbino, Italy, July 4 – 7, 1988, Springer, Lecture Notes in Computer Science, No.313, pp.127 – 137.
  150. Michalewicz, Z., and Chen, K-W., *Ranges and Trackers in Statistical Databases*, Proceedings of the 4th International Conference on Statistical and Scientific Database Management, Rome, Italy, June 21 – 23, 1988, pp.163 – 176, and Springer, Lecture Notes in Computer Science, No.339, pp.193 – 206.
  151. Michalewicz, Z., and Yeo, A., *Sets in Relational Databases*, Proceedings of the Canadian Information Processing Society, Edmonton, Canada, November 17 – 19, 1987, pp.237 – 245; presented also on the 2nd International Symposium on Methodologies for Intelligent Systems, Charlotte, USA, October 14 – 16, 1987.
  152. Michalewicz, Z., *Conceptual Design for Relational Databases*, Proceedings of the 11th NZ Computer Conference, Christchurch, August 26 – 28, 1987, New Zealand, pp.R1 – R11.
  153. Chan, C. and Michalewicz, Z., *A Query Language Capable of Handling Incomplete Information and Statistics*, Proceedings of the 3rd International Workshop on Statistical and Scientific Database Management, Luxembourg, July 22 – 24, 1986, pp.107 – 115.
  154. Michalewicz, Z., *Statistical Databases: Their Model, Query Language and Security*, Proceedings of the 2nd International Workshop on Statistical Database Management, Los Altos, USA, September 27 – 29, 1983, pp.391 – 402.
  155. Michalewicz, Z., *Protecting an Individual in Statistical Databases*, Proceedings of the 8th NZ Computer Conference, Wellington, September 14 – 16, 1983, pp.378 – 402.
  156. Michalewicz, Z., *Improving Security in Statistical Databases*, Proceedings of the 6th Australian Computer Science Conference, Sydney, February 6 – 8, 1983, pp.41 – 56.

## **Attended Conferences, Invited Talks, and Courses**

- Symposium on Foundations of Databases, Wisła, Poland, February 1980.
- 8th NZ Computer Conference, Wellington, September 1983.
- Second International Workshop on Statistical Database Management, Los Altos, California, September 1983.
- Guest speaker at Stanford University, USA, October 1983.
- Guest speaker at Hewlett – Packard Research Institute, Palo Alto, USA, October 1983.
- Guest speaker at Northwestern University, Chicago, USA, October 1983.
- Seminar Networks and Personal Computers (July/August 1984), Centre for Continuing Education, Victoria University, New Zealand.
- Guest speaker at The New Zealand VAX Interest Group Three Day Forum, December 1984, Wellington, New Zealand.
- Third International Workshop on Statistical and Scientific Database Management, Luxembourg, July 1986.
- Visitor at SCB Statistics Sweden (Stockholm), August 1986,
- Guest speaker and a visitor at Linkoping University, Sweden, August 1986.
- Invited speaker at Massey University, New Zealand, June 1987.
- AI Conference of Canadian Information Processing Society, Edmonton, Canada, November 1987.
- 2nd International Symposium on Methodologies for Intelligent Systems, Charlotte, NC, October 1987.
- Fourth International Conference on Statistical and Scientific Database Management, Rome, June 1988.
- Visitor and a guest speaker at Istituto di Analisi dei Sistemi ed Informatica, Consiglio Nazionale delle Ricerche, Rome, Italy, June 1988.
- International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, Urbino, Italy, July 1988.
- 12th Australian Computer Science Conference, Wollongong, February 1989.
- 4th International Symposium on Methodologies for Intelligent Systems, Charlotte, NC, October 1989,
- Visitor and an invited speaker at George Mason University, October 1989.
- Fifth International Conference on Statistical and Scientific Database Management, Charlotte, North Carolina, April 1990.
- Visitor and an invited speaker at University of Warsaw, Poland, July 1990.
- Visitor and an invited speaker at Institute of Computer Science, Polish Academy of Sciences, July 1990.
- 5th International Symposium on Methodologies for Intelligent Systems, Knoxville, Tennessee, October 1990.
- Workshop on Genetic Algorithms and Applications, Research Triangle Park, NC, March 27 – 28, 1991.
- SPIE's International Symposium on Optical Engineering and Photonics in Aerospace Sensing, April 1 – 5, 1991, Orlando, Florida.

- 4th International Conference on Genetic Algorithms, San Diego, July 13 – 16, 1991.
- 6th International Symposium on Methodologies for Intelligent Systems, Charlotte, NC, October 16 – 19, 1991.
- Invited speaker for the 4th North Carolina AI Symposium, March 26 – 27, 1992, Raleigh.
- Visitor and an invited speaker at University of Dortmund, Germany, June 1992.
- Sixth International Conference on Scientific and Statistical Database Management, Zurich, Switzerland, June 1992.
- Visitor and invited speaker at University of Torino, Italy, June 1992.
- Visitor and a guest speaker at Istituto di Analisi dei Sistemi ed Informatica, Consiglio Nazionale delle Ricerche, Rome, Italy, June – July 1992.
- Invited speaker for the Second Intelligent Information Systems Workshop, Augustów, Poland, June 7 – 11, 1993.
- Visitor and a guest speaker at the Technical University of Warsaw, June 1993.
- Invited speaker for the XIII World Conference on Operations Research IFORS '93, Section *Heuristics and AI-Related Methods*, July 12 – 16, 1993, Lisbon, Portugal.
- 5th International Conference on Genetic Algorithms, Urbana-Champaign, July 17 – 21, 1993.
- 3rd Annual Conference on Evolutionary Programming, San Diego, 24 – 26 February 1994.
- Invited speaker for the 7th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE'94), Austin, Texas, May 31 – June 3, 1994.
- Tutorial speaker for the 7th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems (IEA/AIE'94), Austin, Texas, May 31 – June 3, 1994.
- IEEE World Congress on Computational Intelligence, Orlando, 26 June – 2 July 1994.
- Invited professor for a PhD course Genetic Algorithms at University of San Luis, Argentina, July 4 – 20, 1994.
- Invited speaker for the 15th International Symposium on Mathematical Programming, Ann Arbor, Michigan, August 15 – 19, 1994.
- Seminar speaker at the Wayne State University, Detroit, MI, August 1994.
- 8th International Symposium on Methodologies for Intelligent Systems, Charlotte, NC, October 16 – 19, 1994.
- Visitor and invited speaker at the Melbourne University, Australia, November 1994.
- Visitor and invited speaker at the CSIRO, Melbourne, Australia, November 1994.
- Visitor and invited speaker at the Monash University, Melbourne, Australia, November 1994.
- Visitor and invited speaker at the Australian Defense Force Academy, Canberra, Australia, November 1994.
- Tutorial speaker for the 7th Australian Joint Conference on AI, Armidale, NSW, Australia, 21 November 1994.
- Invited speaker for the AI' 94 Workshop on Evolutionary Computation, Armidale, NSW, Australia, 22 November 1994.

- 4th Annual Conference on Evolutionary Programming, San Diego, February 28 – March 3, 1995.
- Invited professor for a PhD course Genetic Algorithms at University of Linköping, Sweden, May 7 – 28, 1995.
- Tutorial speaker for the 8th Scandinavian Conference on Artificial Intelligence (SCAI '95), May 29 – 31, Trondheim, Norway.
- Invited speaker for the Fourth Intelligent Information Systems Workshop, (IIS'95), Augustów, Poland, June 5 – 9, 1995.
- 6th International Conference on Genetic Algorithms, Pittsburgh, 15 – 19 July 1995.
- First Metaheuristics International Conference (MIC'95), Breckenridge, Colorado, July 22 – 26, 1995.
- Seminar speaker at North Carolina State University, September 1995.
- Seminar speaker at University of Houston, October 1995.
- Seminar speaker at University of Auckland, New Zealand, October 1995.
- Seminar speaker at Victoria University of Wellington, New Zealand, November 1995.
- Seminar speaker at University of Canterbury, New Zealand, November 1995.
- Seminar speaker at University of Queensland, Brisbane, Australia, November 1995.
- Seminar speaker at University of New England, Armidale, Australia, November 1995.
- Seminar speaker at University of Newcastle, Australia, November 1995.
- Tutorial speaker for the 8th Australian Joint Conference on AI, Canberra, Australia, November 1995.
- Seminar speaker at Swinburne University of Technology, Melbourne, Australia, November 1995.
- Seminar speaker at Victoria University of Technology, Melbourne, Australia, November 1995.
- Seminar speaker at University of South Australia, Adelaide, Australia, November 1995.
- Tutorial speaker for the 2nd IEEE International Conference on Evolutionary Computation, Perth, Australia, November 28, 1995.
- Invited speaker for the 2nd IEEE International Conference on Evolutionary Computation, Perth, Australia, November 29, 1995.
- Seminar speaker at North Carolina State University, March 1996.
- Invited speaker for the 3rd IEEE International Conference on Evolutionary Computation, Nagoya, Japan, May 20 – 22, 1996.
- Seminar speaker at Nagoya University, Japan, May 23, 1996.
- Keynote speaker for the Workshop on Genetic Algorithms and Engineering Design, Ashikaga Institute of Technology, Japan, May 24, 1996.
- Invited researcher and seminar speaker at the Korea Advanced Institute of Science and Technology (KAIST), May 26 – 30, 1996.
- Seminar speaker at Institute of Industrial Science, University of Tokyo, Japan, May 31, 1996.
- Seminar speaker at Tohoku University, Japan, June 1, 1996.
- Mini-series of 3 lectures at Nagoya University, Japan, June 3, 1996.

- Seminar speaker at Hiroshima University, Japan, June 4, 1996.
- Seminar speaker at Kyoto University, Japan, June 5, 1996.
- Visitor at Tsukuba University, Japan, June 6, 1996.
- Speaker for invited session on Evolutionary Computation during the 9th International Symposium on Methodologies for Intelligent Systems, Zakopane, Poland, June 10 – 13, 1996.
- Invited speaker for the First National Conference on Evolutionary Computation, Murzasichle, Poland, June 12 – 15, 1996.
- Invited talk for the Warsaw Scientific Society, June 27, 1996.
- Tutorial speaker for the Genetic Programming Conference (GP'96), Stanford University, July 28 – 31, 1996.
- 4th International Conference on Parallel Problem Solving from Nature, Berlin, Germany, September 22 – 27, 1996.
- Invited presentation for the Workshop Evolutionary Algorithms, organized by Institute for Mathematics and Its Applications, University of Minnesota, Minneapolis, Minnesota, October 21 – 25, 1996.
- Seminar speaker at Ecole Polytechnique, Paris, France, January 7, 1997.
- Seminar speaker at Leiden University, Netherlands, January 13, 1997.
- Invited professor for a PhD course Modern Heuristic Methods at University of San Luis, Argentina, March 6 – 22, 1997.
- Seminar speaker for the Cameron Applied Research Center, UNC-Charlotte, April 3, 1997.
- Tutorial speaker for the 4th IEEE International Conference on Evolutionary Computation, Indianapolis, Indiana, April 13 – 16, 1997.
- Tutorial speaker for the Sixth Intelligent Information Systems (IIS'97) Symposium on the Methodologies for Intelligent Systems, Zakopane, Poland, June 10, 1997.
- 7th International Conference on Genetic Algorithms, East Lansing, July 19 – 23, 1997.
- 10th International Symposium on Methodologies for Intelligent Systems, Charlotte, October 15 – 18, 1997.
- Plenary speaker for the IEEE International Conference on Intelligent Processing Systems, Beijing, China, October 28 – 31, 1997.
- Seminar speaker at the Institute of Chemical Metallurgy, Chinese Academy of Sciences, Beijing, October 31, 1997.
- Invited speaker for the Evolutionary Computation Workshop, State Key Laboratory of Software Engineering, Wuhan University, China, and October 31 – November 4, 1997.
- Invited professor, University of San Luis, Argentina, March 1 – 15, 1998.
- Seminar speaker at the National University of La Pampa, March 9, 1998.
- Seventh Annual Conference on Evolutionary Programming (EP '98), San Diego, March 25 – 27, 1998.
- Tutorial speaker for the 5th IEEE International Conference on Evolutionary Computation, Anchorage, Alaska, May 4, 1998.
- Panel speaker for the 5th IEEE International Conference on Evolutionary Computation, Anchorage, Alaska, May 8, 1998.

- Invited paper for the 3rd On-line World Conference on Soft Computing in Engineering Design and Manufacturing (WSC3), Internet, June 21 – 30, 1998.
- Invited researcher and seminar speaker at the Leiden University, Netherlands, May 24 – June 7, 1998.
- Seminar speaker at the CWI Amsterdam, Netherlands, June 3, 1998.
- Invited researcher and seminar speaker at the Dortmund University, Germany, June 7 – 26, 1998.
- Invited speaker for the opening of the Leiden Center for Natural Computing, Leiden, Netherlands, June 10, 1998.
- Invited presentation for the Evonet Summer School on Evolutionary Computation (ESSEC 98), Tours, France, July 13 – 17, 1998.
- Seminar speaker at the Departamento de Matematica Aplicada y Metodos Informaticos ETSI Minas. Universidad Politecnica de Madrid, Spain, July 22, 1998.
- Visitor at the Department of Computer Science, Granada University, Spain, July 27 – 30, 1998.
- Visiting professor at Aarhus University, Denmark, August 1998 – July 1999.
- Tutorial speaker for the 5th International Conference on Parallel Problem Solving from Nature, Amsterdam, Netherlands, September 26 – 30, 1998.
- Invited professor, University of San Luis, Argentina, October 15 – 24, 1998.
- Plenary speaker for the Argentinean Congress on Computer Science, Neuquen, Argentina, October 29 – 31, 1998.
- Tutorial speaker for the Argentinean Congress on Computer Science, Neuquen, Argentina, October 29 – 31, 1998.
- Seminar speaker for the Department of Mathematical Modelling, Technical University of Denmark, Lyngby, Denmark, April 22, 1999.
- Invited speaker for the Third Workshop on Applied/Advanced Research in Combinatorial Optimization, Technical University of Denmark, Lyngby, Denmark, April 23 – 24, 1999.
- Invited lecturer for the *Evolutionary Algorithms in Engineering and Computer Science: Recent Advances and Industrial Applications* (EUROGEN'99), Jyvaeskylae, Finland, May 30 – June 3, 1999.
- 11th International Symposium on Methodologies for Intelligent Systems, Warsaw, Poland, June 8 – 11, 1999.
- 8th Intelligent Information Systems Workshop, (IIS'99), Ustronie, Poland, June 14 – 18, 1999.
- Seminar speaker at Bording Data A/S, Unistar Division, Aarhus, Denmark, June 30, 1999.
- Tutorial speaker for the Congress on Evolutionary Computation, Washington, DC, July 6 – 9, 1999.
- Seminar speaker for the University of Buenos Aires, Argentina, September 8, 1999.
- Invited speaker for the Operation Research Symposium (SIO'99), part of the 28th Jornadas Argentinas de Informatica e Investigacion Operativa, Buenos Aires, Argentina, September 6 – 10, 1999.
- Invited speaker for the EVALife Workshop '99, Interdisciplinary Concepts for the Analysis of Complex Systems, University of Aarhus, Denmark, September 20 – 21, 1999.

- Invited speaker for the International Conference of the Chilean Computer Science Society, Santiago, Chile, November 8 – 13, 1999.
- Visiting professor at the Departamento de Informatica, Universidad Santa Maria, Chile, November 11 – 15, 1999.
- Invited professor, University of San Luis, Argentina, November 16 – 25, 1999.
- Invited speaker for the International Workshop on Evolutionary Computation, Wuhan, China, April 3 – 7, 2000.
- Tutorial speaker for the Genetic and Evolutionary Computation Conference (GECCO-2000), Las Vegas, NV, July 8 – 12, 2000.
- Tutorial speaker for the 2nd Congress on Evolutionary Computation, San Diego, California, July 16 – 19, 2000.
- Tutorial speaker for the 6th Parallel Problem Solving from Nature, Paris, September 17 – 20, 2000.
- Plenary speaker for the Argentinean Congress on Computer Science, Ushuaia, Argentina, October 2 – 6, 2000.
- Tutorial speaker for Artificial Neural Networks in Engineering (ANNIE'2000), St. Louis, Missouri, November 5 – 8, 2000.
- Plenary speaker for Artificial Neural Networks in Engineering (ANNIE'2000), St. Louis, Missouri, November 5 – 8, 2000.
- Tutorial speaker for the Computer Science Congress, Mexico City, November 13 – 17, 2000.
- Invited speaker for the Computer Science Congress, Mexico City, November 13 – 17, 2000.
- Keynote speaker for the International Conference on Computational Intelligence for Modeling Control and Automation (CIMCA'2001), Las Vegas, NV, July 9 – 11, 2001.
- Plenary speaker for the EvoCOP, EuroGP, and EvoWorkshops, Coimbra, Portugal, April 5 – 7, 2004.
- Keynote speaker for the Polish Conference on Evolutionary Algorithms and Global Optimization (KAEiOG'2004), Kazimierz Dolny, Poland, May 24 – 26, 2004.
- Plenary speaker for the International Workshop on Monitoring, Security, and Rescue Tasks in Multi-Agent Systems 2004 (MSRAS 2004), Plock, Poland, June 7 – 9, 2004.
- Tutorial speaker for the Electrical Engineering Department, University of Salerno, Italy, June 15, 2004.
- Keynote speaker for the 20<sup>th</sup> Annual Italian Conference of the National Research Group of Electrotechnics (ET'2004), Salerno, Italy, June 16 – 19, 2004.
- Speaker for the Interdisciplinarity in Research Seminar, Warsaw, Poland, June 22, 2004.
- Plenary speaker for the International Conference on Modeling, Control and Automation (CIMCA'2004), Gold Coast, Australia, July 12 – 14, 2004.
- Keynote speaker for the 7th Asia-Pacific Conference on Complex Systems (Complex'2004), Cairns, Australia, December 6 – 10, 2004.
- Seminar speaker at the Australian Defence Force Academy, Canberra, Australia, February 2005.
- Seminar speaker at the Ballarat University, Ballarat, Australia, March 2005.
- Seminar speaker at the RMIT, Melbourne, Australia, March 2005.

- Keynote speaker for the International Symposium on Intelligence Computation and Applications, ISICA 2005, Wuhan, China, April 4 – 6, 2005.
- Plenary speaker for the 10<sup>th</sup> Meeting of the EURO Working Group Transportation (EWGT) on Advances in Modeling, Optimization, and Management of Transportation Processes and Systems: Theory and Practice, Poznań, Poland, September 13 – 16, 2005.
- Seminar speaker at Victoria University of Wellington, New Zealand, October 14, 2005.
- Invited speaker for the Polish Conference on Evolutionary Algorithms and Global Optimization (KAEiOG'2006), Murzasichle, Poland, May 30 – June 2, 2006.
- Invited speaker for the Summer School in Intelligent Data Analysis, Iasi, Romania, June 12 – 16, 2006.
- Keynote speaker for the Federation of Automotive Products Manufacturers Convention, Queensland, Australia, July 20 – 21, 2006.
- Seminar speaker at Chinese University of Hong Kong, October 12, 2006.
- Keynote speaker for the 6th International Conference on Simulated Evolution and Learning (SEAL'06), Hefei, China, October 15 – 18, 2006.
- Keynote speaker for the International Conference on Computational Intelligence for Modelling, Control and Automation (CIMCA'06), Sydney, Australia, November 28 – December 1, 2006.
- Keynote speaker for the Financial Review Business Intelligence Breakfast, Sydney, Australia, March 20, 2007.
- Invited speaker for the Western Australia Business Objects User Group, Perth, Australia, June 21, 2007.
- Seminar speaker at University of Otago, Dunedin, New Zealand, July 16, 2007.
- Seminar speaker at University of Canterbury, Christchurch, New Zealand, July 19, 2007.
- Seminar speaker at Victoria University of Wellington, New Zealand, July 20, 2007.
- Tutorial speaker for the IEEE Congress on Evolutionary Computation, Singapore, September 25 – 28, 2007.
- Speaker at the 18th Conference of Australasian Association for Engineering Education (AAEE), Melbourne, December 9 – 12, 2007.
- Workshop speaker at General Motors Holden, Elizabeth, South Australia, March 2008.
- Plenary speaker at the Mathematical Association of South Australia Annual Conference, Adelaide, Australia, 23 - 24 April, 2008.
- Workshop speaker at ETSA Utilities, Adelaide, Australia, April 2008.
- Invited speaker for the Summer School in Intelligent Data Analysis, Iasi, Romania, June 10 – 13, 2008.
- Invited speaker for the Conference of the Universities' Executives for Mathematics and Informatics (KWUMiI'08), Warsaw, Poland, June 13 - 14, 2008.
- Seminar speaker at the University of Nottingham, UK, June 17, 2008.
- Seminar speaker at the University of Birmingham, UK, June 18, 2008.
- Speaker at the Trading and Sourcing Conference, Adelaide, Australia, July 28 – 29, 2008.

- Seminar speaker at the University of South Australia, Mawson Lakes, August 22, 2008.
- Seminar speaker at the University of New South Wales, ADFA, Canberra, September 15, 2008.
- Seminar speaker at the Australian National University, Canberra, September 15, 2008.
- Keynote speaker at the Jornada de Inteligencia Computacional Aplicada al Negocio, JICAN (the Workshop on Computational Intelligence Applied to Business), Valencia, Spain, 25 September, 2008.
- Workshop speaker for the Department of Education and Childrens Services, Adelaide, Australia, November 2008.
- Seminar speaker at the University of Western Australia, Perth, November 19, 2008.
- Keynote speaker at the 21st Australasian Joint Conference on Artificial Intelligence (AI-08), Auckland, New Zealand, 3 – 5 December, 2008.
- Keynote speaker for the 7th International Conference on Simulated Evolution and Learning (SEAL'08), Melbourne, Australia, December 7 – 10, 2008.
- Seminar speaker at the La Trobe University, December 15, 2008.
- Presentation for the Australian Computer Society, Perth, March 17, 2009.
- Presentation for the Australian Computer Society, Bunbury, March 18, 2009.
- Presentation for the Australian Computer Society, Brisbane, April 22, 2009.
- Presentation for the Australian Computer Society, Perth, April 23, 2009.
- Plenary speaker at the Conference on Evolutionary and Deterministic Methods for Design, Optimization and Control with Applications to Industrial and Societal Problems, part of EUROGEN 2009, Cracow, Poland, June 15 – 17, 2009.
- Invited speaker at the International Joint Conference on Intelligent Information Systems, Cracow, Poland, June 15 – 18, 2009.
- Invited speaker at the National Conference & Exhibition "*Sustainability through Technology*", Nuriootpa, South Australia, June 24 - 25, 2009.
- Invited speaker for the Workshop "*Data Sciences, Knowledge Discovery and Business Intelligence*", University of Technology, Sydney, July 7 – 11, 2009.
- Seminar speaker at the University of Technology, Sydney, July 10, 2009.
- Presentation for the Australian Computer Society, Melbourne, July 15, 2009.
- Presentations for the Australian CIO Summit 2010, Gold Coast, Australia, July 27 – 29, 2009.
- Seminar Speaker at the University of New South Wales, Sydney, August 31, 2009.
- Presentation for the Australian Computer Society, Sydney, August 31, 2009.
- Presentation for the Australian Computer Society, Wollongong, September 1, 2009.
- Presentation for the Australian Computer Society, Darwin, September 10, 2009.
- Presentation for the Australian Computer Society, Canberra, October 20, 2009.
- Presentation for the Australian Computer Society, Hobart, November 18, 2009.
- Workshop presenter at the 20th Conference of Australasian Association for Engineering Education (AAEE), Adelaide, December 7, 2009.
- Invited speaker at the Fourteen Australian Wine Industry Technical Conference, Adelaide, South Australia, July 3 – 8, 2010.

- Presentations for the Australian CIO Summit 2011, Brisbane, Australia, August 2 – 4, 2010.
- Keynote speaker at the 11th International Conference on Parallel Problem Solving from Nature (PPSN), Cracow, Poland, September 11 – 15, 2010.
- Seminar speaker at the Institute of Computer Science, Polish Academy of Sciences, Warsaw, Poland, September 23, 2010.
- Seminar speaker at the Bogazici University, June 13, 2011.
- Keynote speaker at the BbSummit Australasia 2011, Melbourne, August 31, 2011.
- Keynote speaker for the Raytheon's Engineering and Technology Council, November 2, 2011.
- Keynote speaker for the Integrated Planning and Optimisation Summit 2012 (IPOS'12), Adelaide, February 27 – 28, 2012.
- Keynote speaker for the IEEE CEC'12, Brisbane, Australia, June 10 – 15, 2012.
- Invited speaker for the Summer School in Intelligent Data Analysis, Iasi, Romania, June 18 – 21, 2012.
- Seminar speaker at the RMIT, Melbourne, Australia, May 17, 2013.
- Seminar speaker at the Institute of Computer Science, Polish Academy of Sciences, June 24, 2013.
- Keynote speaker at the 10<sup>th</sup> International Conference on Simulated Evolution and Learning (SEAL'14), Otago, New Zealand, December 15 – 19, 2014.
- Seminar speaker at the RMIT, Melbourne, Australia, November 18, 2015.
- Keynote speaker for the 2016 Applied Informatics and Technology Innovation Conference (AITIC 2016), Newcastle, Australia, November 22 – 24, 2016.
- Keynote speaker for the Australasian Conference on Artificial Life and Computational Intelligence, (ACALCI 2017), Melbourne, Australia, 31 January – 2 February 2017.
- Keynote speaker for the Federated Conference on Computer Science and Information Systems (FedCSIS 2017), Prague, September 4 – 7, 2017.
- Keynote speaker at the AI Summit 2018, Seoul, South Korea, December 4 – 5, 2018.
- Keynote speaker at the Workshop on Data Science in Business, Dunedin, New Zealand, December 10, 2018.
- Keynote and tutorial speaker for the 31st Australasian Joint Conference on AI, Wellington, New Zealand, December 11 - 14, 2018.
- Keynote speaker for the 18th Conference on Artificial Intelligence and Soft Computing (ICAISC 2019), Zakopane, Poland, June 16 – 20, 2019.
- Invited speaker for the ECODAM doctoral summer school, Iasi, Romania, June 20 – 25, 2019.
- Seminar speaker for the Wrocław Polytechnic, 12 May 2021.
- Plenary speaker for the 2021 IEEE Congress on Evolutionary Computation (IEEE CEC'21), Krakow, Poland, June 28 – July 1, 2021.
- Invited speaker for Summer School IA Tech 2023, Warsaw, Poland, June 16, 2023.
- Keynote speaker for the 22nd Conference on Artificial Intelligence and Soft Computing (ICAISC 2023), Zakopane, Poland, June 18 – 22, 2023.
- Invited speaker for the ECODAM doctoral summer school, Iasi, Romania, June 10 – 16, 2024.

- Invited speaker for the 3rd Conference on Intelligent Systems and Information Technologies – Artificial Intelligence Impact on Physical Sciences and Medicine, Siedlce, Poland, September 24 – 26, 2025.
- 50<sup>th</sup> anniversary talk at the Institute of Computer Science, Polish Academy of Sciences, Warsaw, Poland, September 29, 2025.
- Invited speaker at the RAIsE: RMIT AI Advanced Innovation Experience Hub talk, Melbourne, Australia, May 8, 2026.

### **Editorial Boards and Guest Editor**

- Associate Editor of the international journal *Statistics and Computing* (Chapman & Hall until 1998, now Kluwer).
- Associate Editor of the international journal of *Advanced Computational Intelligence* (Fuji Technology Press), from 2001 to 2010).
- Editorial board of the international journal *Evolutionary Computation* (MIT Press).
- Editorial board of the international journal *Fundamenta Informaticae* (IOS Press), from 1996 to 2010.
- Editorial board of the international journal on *Natural Computing*, (Kluwer Academic) till 2013.
- Editorial board of the international journal *Teaching Mathematics and Computer Science* (Institute of Mathematics, University of Debrecen, Hungary).
- Editorial board of the international journal *Ecological Informatics* (Elsevier).
- Foundation Editor of the *Journal for Universal Computer Science* (Springer).
- Associate Editor of the *Argentinian Journal of Computer Science* (Graduate Network of Argentine Universities).
- Area Editor of the *Journal of Heuristics* (Kluwer Academic) from 1995 to 2012.
- Associate Editor of the *IEEE Transactions on Evolutionary Computation* from 1997 – 2012.
- Editorial Board of the journal *Swarm and Evolutionary Computing*, Elsevier.
- Guest Editor for *Statistics and Computing*, Vol.4, No.2, 1994.
- Guest Editor (with M. Schoenauer) for *Control and Cybernetics*, Vol.26, No.3, 1997.
- Guest Editor (with A.E. Eiben) for *Fundamenta Informaticae*, Vol.35, No.1 – 4, 1998.
- Member of the Training Committee of Evonet (The Network of Excellence in Evolutionary Computing), January 1, 1999 – 2003.
- Guest Editor (with P. Siarry) for the *European Journal of Operational Research*, Volume 185, Number 3, March 2008, on *Adaptation of Discrete Metaheuristics to Continuous Optimization*.
- Guest Editor (with R. Zhang, R. Chiong, and P.-C. Chang) for the *European Journal of Operational Research*, Volume 248, Number 3, February 2016, on *Sustainable Scheduling of Manufacturing and Transportation Systems*.
- Member of the Advisory Board for the *Series on Natural Computing*, Springer.
- Member of the Advisory Board of the *IRAN, Journal of Computer Science*, University of Tabriz, Iran.
- Member of the Editorial board of the new *Springer Metaheuristic Journal*, Springer.
- Member of the *IEEE CIS Evolutionary Computation Technical Committee (ECTC)*.

## **Program and Organizing Committees**

- Member of the Program Committee and a chairman of one of the sessions of the 4th International Conference on Statistical and Scientific Database Management, Rome, Italy, June 21 – 23, 1988.
- Member of the Organizing Committee of the 3rd International Symposium on Methodologies for Intelligent Systems, Torino, Italy, October 12 – 15, 1988.
- Member of the Organizing Committee of the 4th International Symposium on Methodologies for Intelligent Systems, Charlotte, October 12 – 14, 1989, and a chairman of the session Intelligent Databases during this conference.
- General Chairman of the 5th International Conference on Statistical and Scientific Database Management, April 3 – 5, 1990, Charlotte.
- Member of the Organizing Committee of the 6th International Symposium on Methodologies for Intelligent Systems, Charlotte, October 16 – 19, 1991.
- Member of the Program Committee and a chairman of one of the sessions of the 6th International Conference on Scientific and Statistical Database Management, Zurich, June 1992.
- Member of the Program Committee of the 5th International Conference on Genetic Algorithms, Urbana-Champaign, July 17 – 22, 1993.
- Member of the Program Committee of the Third Intelligent Information Systems Workshop, Augustów, Poland, June 6 – 11, 1994.
- General chair of the International Symposium on Evolutionary Computation, held in conjunction with the IEEE World Congress on Computational Intelligence, Orlando, June 25 – July 2, 1994.
- Member of the advisory board for the 11th European Conference on Artificial Intelligence (ECAI '94), Amsterdam, August 8 – 12, 1994.
- Member of the Program Committee of the 7th International Conference on Scientific and Statistical Database Management, Charlottesville, Virginia, September 28 – 30, 1994.
- Member of the Program Committee of the 3rd International Conference on Parallel Problem Solving from Nature, Jerusalem, Israel, October 9 – 14, 1994.
- Member of the Program Committee of the 7th International Symposium on the Methodologies for Intelligent Systems, Charlotte, October 16 – 19, 1994.
- Member of the organizing committee of the AI' 94 Workshop on Evolutionary Computation, Armidale, NSW, Australia, 22 November 1994.
- Member of the Program Committee of the Fourth Intelligent Information Systems Workshop (IIS'95), Zakopane, Poland, June 5 – 9, 1995.
- Member of the Program Committee of the 6th International Conference on Genetic Algorithms, Pittsburgh, July 15 – 19, 1995.
- Member of the Program Committee of the Metaheuristics International Conference (MIC-1), July 22 – 26, 1995, Breckenridge, Colorado.
- Member of the Program Committee of the Tools for AI Conference, Washington, DC, November 1995.

- Member of the Program Committee of the Eighth Australian Joint Conference on Artificial Intelligence (AI'95), Canberra, Australia, November 13 – 17, 1995.
- Member of the Program Committee of the 2nd IEEE Conference on Evolutionary Computation, Perth, Australia, November 29 – December 1, 1995.
- Member of the Program Committee of the 5th Annual Conference on Evolutionary Programming, San Diego, February 28 – March 2, 1996.
- Program Chair of the 3rd IEEE Conference on Evolutionary Computation, Nagoya University, Japan, May 20 – 22, 1996.
- Member of the Program Committee of the Evolutionary Computing Section of ROSYCS '96, May 30 – June 1, Iasi, Romania.
- Member of the Program Committee of the First National Conference on Evolutionary Computation, Zakopane, Poland, June 12 – 15, 1996.
- Member of the Program Committee of the 8th International Conference on Scientific and Statistical Database Management, Stockholm, Sweden, June 18 – 20, 1996.
- Member of the Program Committee of the 4th International Conference on Parallel Problem Solving from Nature, Berlin, Germany, September 22 – 27, 1996.
- Member of the Program Committee of the Second Argentinean Congress on Computer Science, San Luis, Argentina, November 6 – 9, 1996.
- Member of the Program Committee of the First Asia-Pacific (SEAL'96), Taejon, Korea, November 9 – 12, 1996.
- Member of the Program Committee of the 6th Annual Conference on Evolutionary Programming, Indianapolis, April 13 – 16, 1997.
- Program Chair of the 4th IEEE International Conference on Evolutionary Computation, Indianapolis, April 13 – 16, 1997.
- Member of the Program Committee of the Genetic Programming Conference (GP '97), Stanford University, July 13 – 17, 1997.
- Member of the Program Committee of the 7th International Conference on Genetic Algorithms, July 19 – 23, 1997.
- Member of the Program Committee of the 2nd Metaheuristics International Conference (MIC'97), July 21 – 24, 1997, Sophia-Antipolis, France.
- Member of the Program Committee of BCEC97, Bio-Computation and Emergent Computation, September 1 – 2, 1997, University of Skovde, Sweden.
- Member of the Program Committee of the Second IEE/IEEE International Conference on Genetic Algorithms in Engineering Systems: Innovations and Applications (GALESIA), September 1 – 4, 1997.
- Member of the Program Committee of the International Conference on Optimization and Simulation, Singapore, September 1 – 4, 1997.
- Member of the Program Committee of the Euromicro-Workshop on Computational Intelligence (CI '97), Budapest, Hungary, September 3 – 4, 1997.
- Member of the Program Committee of the Second National Conference on Evolutionary Computation, Rytro, Poland, September 16 – 19, 1997.
- Member of the Program Committee of the 10th International Symposium on the Methodologies for Intelligent Systems, Charlotte, October 19 – 21, 1997.
- Tutorial chair of the IEEE Conference on Intelligent Processing Systems, Beijing, China, October 20 – 24, 1997.

- Member of the Program Committee of the Evolution Artificielle 97 – EA'97, EMA – EERIE, Nimes, France, October 23 – 27 1997.
- Member of the Program Committee of the Seventh Annual Conference on Evolutionary Programming (EP'98), San Diego, March 25 – 27, 1998.
- Member of the Program Committee of the Symposium: Applied Mathematics and Optimization, part of the IMACS – IEEE/SMC multi-conference CESA'98, Tunisia, April 1 – 4, 1998.
- Member of the Program Committee of the Third Adaptive Computing in Design and Manufacture (ACDM) Conference, Plymouth Engineering Design Centre, University of Plymouth, April 21 – 23, 1998.
- Member of the Program Committee of the 5th IEEE International Conference on Evolutionary Computation, Anchorage, Alaska, May 5 – 9, 1998.
- Member of the Program Committee of the MSL-98 Fourth International Workshop on Multistrategy Learning, Desenzano del Garda (Italy), June 11 – 13, 1998.
- Member of the Program Committee of the Seventh Intelligent Information Systems Workshop (IIS'98), Malbork, Poland, June 15 – 19, 1998.
- Member of the 'International Scientific Committee' of the 3rd On-line World Conference on Soft Computing in Engineering Design and Manufacturing (WSC3), Internet, June 21 – 30, 1998.
- Member of the Program Committee of the 1st International Conference on Rough Sets and Current Trends in Computing, June 22 – 26, 1998, Warsaw, Poland.
- Member of the Program Committee of the 3rd Annual Genetic Programming Conference (GP-98), July 22 – 25, 1998, University of Wisconsin-Madison.
- Tutorial chair of the 2nd IEEE International Conference on Intelligent Processing Systems (IEEE ICIPS'98), Gold Coast, Australia, August 4 – 7, 1998.
- Member of the Program Committee of the 1998 Foundations of Genetic Algorithms (FOGA-5) Workshop, Amsterdam, Netherlands, September 24 – 26, 1998.
- Member of the Program Committee of the 5th International Conference on Parallel Problem Solving from Nature, Amsterdam, Netherlands, September 27 – 30, 1998.
- Member of the Program Committee of the FEA'98: Second International Workshop on Frontiers in Evolutionary Algorithms, Research Triangle Park, NC, October 24 – 28, 1998.
- Member of the Program Committee of the 11th International Symposium on the Methodologies for Intelligent Systems, Warsaw, Poland, June 8 – 11, 1999.
- Member of the Program Committee of the 5th International Mendel Conference on Soft Computing (MENDEL'99), Brno, Czech Republic, June 9 – 12, 1999.
- Member of the Program Committee of the Eight Intelligent Information Systems Workshop (IIS'99), Ustronie, Poland, June 14 – 18, 1999.
- Member of the Program Committee of the International Workshop on Soft Computing in Industry'99 (IWSCI'99), June 16 – 18, 1999.
- Member of the International Scientific Committee of the 3rd IMACS International Multiconference on Circuits, Systems, Communications, and Computers (CSCC'99), Athens, Greece, July 4 – 8, 1999.
- Program Chair of the Congress on Evolutionary Computation (CEC'99), Washington, DC, July 6 – 9, 1999.

- Member of the Program Committee of the Genetic and Evolutionary Computation Conference (GECCO-1999), Orlando, Florida, July 14 – 17, 1999.
- Member of the Program Committee of the 3rd Metaheuristics International Conference (MIC'99), July 18 – 22, 1999, Angra dos Reis, Brazil.
- Member of the Program Committee of the 4th Online World Conference on Soft Computing in Industrial Applications (WSC4), September 21 – 30, 1999.
- Member of the Program Committee of the Evolution Artificielle 99 – EA'99, November 3 – 5, 1999, Bologna, France.
- Member of the Program Committee of the Seventh International Workshop on Rough Sets, Fuzzy Sets, Data Mining, and Granular-Soft Computing, November 9 – 11, 1999, Ube, Yamaguchi, Japan.
- Member of the Program Committee of the IWES'99: International Workshop on Emergent Synthesis, December 6 – 7, 1999, Kobe, Japan.
- Member of the Program Committee of the FEA'2000: Third International Workshop on Frontiers in Evolutionary Algorithms, Atlantic City, NJ, February 27 – March 3, 2000.
- Member of the Program Committee of the First International Workshop on Computational Intelligence in Economics and Finance (CIEF'2000), Atlantic City, NJ, February 27 – March 3, 2000.
- Member of the Program Committee of the ACDM'2000, Fourth International Conference on Adaptive Computing in Design and Manufacture, April 26 – 28, 2000, Plymouth, UK.
- Member of the Program Committee of the 4th Conference on Evolutionary Algorithms and Global Optimization, Łądek Zdrój, Poland, June 6 – 9, 2000.
- Member of the Program Committee of the Ninth International Symposium on Intelligent Information Systems (IIS'2000), Bystra, Poland, June 13 – 17, 2000.
- Member of the Program Committee of the 2000 Genetic and Evolutionary Computation Conference (GECCO-2000), July 8 – 12, 2000, Las Vegas.
- Member of the Program Committee of the Congress on Evolutionary Computation, San Diego, California, July 16 – 19, 2000.
- Member of the Program Committee of the 2000 Foundations of Genetic Algorithms (FOGA-6) Workshop, Charlottesville, VA, July 21 – 24, 2000.
- Member of the Program Committee of the International Symposium on Computational Intelligence, Kosice, Slovakia, September 6 – 9, 2000.
- Member of the Program Committee of the ANTS'2000 – From Ant Colonies to Artificial Ants: Second International Workshop on Ant Algorithms, Brussels, Belgium, September 8 – 9, 2000.
- Member of the Program Committee of the 6th International Conference on Parallel Problem Solving from Nature, Paris, France, September 16 – 20, 2000.
- Member of the Program Committee of the Argentinean Congress of Computation Sciences (Congreso Argentino de Ciencias de la Computacion, CACIC'2000), Ushuaia, Argentina, October 2 – 7, 2000.
- Member of the Program Committee of the 2nd International Conference on Rough Sets and Current Trends in Computing (RSCTC'2000), Banff Park Lodge, Banff, Canada, October 16 – 19, 2000.

- Member of the Program Committee of the EvoWorkshop Evolutionary Computation in Combinatorial Optimization (EvoCOP), April 18, 2001, Como, Italy.
- Member of the Program Committee of the Congress on Evolutionary Computation, Seoul, South Korea, May 27 – 30, 2001.
- Member of the Program Committee of the 10th International Conference on System-Modeling-Control, Zakopane, Poland, May 2001.
- Member of the Program Committee of the 2001 Genetic and Evolutionary Computation Conference (GECCO-2001), July 7 – 11, 2001, San Francisco, CA.
- Member of the Scientific Board of the 6th Online World Conference on Soft Computing in Industrial Applications (WSC6), September 10 – 24, 2001.
- Member of the Scientific/Program Committee of the Mexican International Conference in Computer Science (MICCS 2001), Aguascalientes, Mexico, September 15 – 19, 2001.
- Member of the Program Committee of the Argentinean Congress of Computation Sciences (Congreso Argentino de Ciencias de la Computacion, CACIC'2001), El Calafate, Argentina, October 15 – 20, 2001.
- Member of the Program Committee of the Evolution Artificielle 2001 (EA'01), Le Creusot, France, October 29 – 31, 2001.
- Member of the Program Committee of the II Workshop on Advances & Trends in Artificial Intelligence for Problem Solving: ATAI, XXI International Conference of the Chilean Computer Science Society (SCCC 2001), Punta Arenas, Chile, November 5 – 9, 2001.
- Member of the Program Committee of the Second International Workshop on Computational Intelligence in Economics and Finance (CIEF'2002), Research Triangle Park, NC, March 8 – 13, 2002.
- Member of the Program Committee of the 2nd European Workshop on Evolutionary Computation in Combinatorial Optimization, Southern Ireland, April 3 – 4, 2002.
- Honorary chairman of the Euro-International Symposium on Computational Intelligence, Kosice, Slovakia, June 24 – 30, 2002.
- Member of the Program Committee of the fourth annual Genetic and Evolutionary Computation Conference (GECCO-2002), New York, July 9 – 13, 2002.
- Member of the Program Committee of the International Conference on Rough Sets and Current Trends in Computing (RSCTC'2002), Penn State Great Valley, October 2002.
- Member of the Program Committee of the 4th Asia-Pacific Conference on Simulated Evolution and Learning (SEAL'02), Singapore, November 18 – 22, 2002.
- Member of the Program Committee of the 9th International Conference on Neural Information Processing (ICONIP'02), Singapore, November 18 – 22, 2002.
- Member of the Program Committee of the 1st International Conference on Fuzzy Systems and Knowledge Discovery (FSKD'02), Singapore, November 18 – 22, 2002.
- Member of the Program Committee of the fifth annual Genetic and Evolutionary Computation Conference (GECCO-2003), Chicago, July, 2003.
- Member of the Program Committee of the Congress on Evolutionary Computation, CEC'2003, Canberra, Australia, December 8 – 12, 2003.
- Member of the Program Committee of the EvoCOP, Coimbra, Portugal, April 5 – 7, 2004.

- Member of the Program Committee of the International Conference on New Trends in Intelligent Information Processing and Web Mining (IIPWM'2004), Zakopane, Poland, May 17 – 20, 2004.
- Member of the Program Committee of the First Warsaw International Seminar on Intelligent Systems (WISIS'04), Warsaw, May 21, 2004.
- Member of the Program Committee of the Seventh International Conference on Artificial Intelligence and Soft Computing, Zakopane, Poland, June 7 – 11, 2004.
- Member of the Program Committee of the Congress on Evolutionary Computation (CEC'2004), Portland, Oregon, June 19 – 23, 2004.
- Member of the Program Committee of the Genetic and Evolutionary Computation Conference (GECCO-2004), Seattle, Washington, June 26 – 30, 2004.
- Member of the Program Committee of the special track on Evolutionary Scheduling and Routing of the 2004 Genetic and Evolutionary Computation Conference (GECCO-2004), Seattle, Washington, June 26 – 30, 2004.
- Member of the Program Committee of the International Workshop on Intelligent Media Technology for Communicative Intelligence, Warsaw, Poland, September 13 – 14, 2004.
- Member of the Program Committee of the Eighth International Conference on Parallel Problem Solving from Nature (PPSN'2004), Birmingham, UK, September 18 – 22, 2004.
- Member of the Program Committee of the X Argentinian Congress on Computer Science (CACIC 2004), San Justo, Argentina, October 4 – 8, 2004.
- Member of the Program Committee of the International Conference on Bioinspired Optimization Methods and their Applications (BIOMA 2004), Ljubljana, Slovenia, October 11 – 12, 2004.
- Member of the Program Committee of the International Conference on Simulated Evolution and Learning (SEAL 2004), Busan, South Korea, October 26 – 29, 2004.
- Member of the Program Committee of the 7<sup>th</sup> Asia-Pacific Conference on Complex Systems (Complex'2004), Cairns, Australia, December 6 – 10, 2004.
- Member of the Program Committee of the EvoCOP-2005, Lausanne, Switzerland, March 30 – April 1, 2005.
- Technical Co-Chair of the International Conference on Intelligent Computation and Applications, Wuhan, China, April 4 – 6, 2005.
- Member of the Program Committee of the 1<sup>st</sup> Polish and International PD Forum – Conference on Computer Science, Łódź, Poland, April 11 – 14, 2005.
- Member of the Program Committee of the International Conference on New Trends in Intelligent Information Processing and Web Mining (IIPWM 2005), Poland, June 13 – 16, 2005.
- Member of the Program Committee of the Genetic and Evolutionary Computation Conference (GECCO'05), Washington, DC, June 25 – 29, 2005.
- Program Chair of the 2005 Congress on Evolutionary Computation (CEC'2005), Edinburgh, Scotland, September 2 – 5, 2005.
- Member of the Program Committee of the 16<sup>th</sup> Mini-EURO Conference on Artificial Intelligence in Transportation, part of the 10<sup>th</sup> Meeting of the EURO Working Group Transportation (EWGT) on Advances in Modeling, Optimization, and Management

of Transportation Processes and Systems: Theory and Practice, Poznań, Poland, September 13 – 16, 2005.

- Member of the Program Committee of the I National Conference on Data Processing Technologies, Poznań, Poland, September 26 – 28, 2005.
- Member of the Program Committee of the 11th International Conference on System Modeling Control, Zakopane, Poland, October 17 – 21, 2005.
- Member of the Program Committee of the 7<sup>th</sup> International Conference on Artificial Evolution (AE'2005), University of Lille, France, October 26 – 28, 2005.
- Member of the Program Committee of the International Conference on Machine Intelligence (ACIDCA-ICMI 2005), Tozeur, Tunisia, November 5 – 7, 2005.
- Member of the Program Committee of the 2nd Portuguese Workshop on Artificial Life and Evolutionary Algorithms (ALEA'05), Covilhã, Portugal, December 5 – 8, 2005.
- Member of the Program Committee of the 2nd Indian International Conference on Artificial Intelligence (IICAI-05), Pune, India, December 20 – 22, 2005.
- Member of the Program Committee of the EvoCOP 2006, 6th European Conference on Evolutionary Computation in Combinatorial Optimization, Budapest, Hungary, April 10 – 12, 2006.
- Member of the Program Committee of the Evolutionary Optimization (EvoOpt 2006), a special track of the 19th International FLAIRS Conference, Melbourne, Florida, USA, May 11 – 13, 2006.
- Member of the Program Committee of the International Conference on New Trends in Intelligent Information Processing and Web Mining (IIPWM'2006), Poland. June 19 – 22, 2006.
- Member of the Program Committee of the Eighth International Conference on Artificial Intelligence and Soft Computing, Zakopane, Poland, June 25 – 29, 2006.
- Member of the Program Committee of the 2006 IEEE Congress on Evolutionary Computation (CEC 2006), Vancouver, BC, Canada, July 16 – 21, 2006.
- Member of the Ninth International Conference on Parallel Problem Solving from Nature (PPSN IX), Reykjavik, Iceland, September 9 – 13, 2006.
- Member of the Program Committee of the International Conference on Bio-Inspired Computing: Theory and Experiments (BIC-TE), Wuhan, China, September 18 – 22, 2006.
- Member of the Program Committee of the International Conference on Bio-inspired Optimization Methods and their Applications (BIOMA 2006), Ljubljana, Slovenia, October 2006.
- Member of the Program Committee of the Symposium on Artificial Intelligence and Applications (AIA'06), Wisła, Poland, November 6 – 10, 2006.
- Member of the Program Committee of the Non-Darwinian Evolutionary Computation Special Track at the 18th International Conference on Tools with Artificial Intelligence (ICTAI 2006), Washington D.C., November 13 – 15, 2006.
- Member of the Program Committee of the 5th International Conference on Ecological Informatics ISEI5, Santa Barbara, USA, December 4 – 7, 2006.
- Member of the Program Committee of the Learning and Intelligent Optimization Workshop (LION 2007), February 12 – 18, 2007, Andalo (Trento), Italy.

- Member of the Program Committee of the First IEEE Symposium on Foundations of Computational Intelligence (IEEE FOCI'07), Honolulu, Hawaii, USA, April 1 – 5, 2007.
- Member of the Program Committee of the Fourth European Workshop on Evolutionary Computation in Stochastic and Dynamic Environments (EvoSTOC 2007), Valencia, Spain, April 11 – 13, 2007.
- Member of the Program Committee of the 2007 Special Session on Dynamic and Multi-objective Optimization with Computational Intelligence (DMOCI 2007) in the 3rd International Conference on Natural Computation (ICNC '07), Haikou City, China, August 24 – 27, 2007.
- Member of the Program Committee of the Workshop on Evolutionary Algorithms and Evolvable Systems (EAES 2007), Beijing, China, May 27 – 30, 2007.
- Member of the Program Committee of the 2nd annual conference on Bio-Inspired Computing: Theories and Applications (BIC-TA 2007), Zheng Zhou, China, September 14 – 17, 2007.
- Member of the Program Committee of the 2007 IEEE Congress on Evolutionary Computation (CEC 2007), Singapore, September 25 – 28, 2007.
- Member of the Program Committee of the Evolution Artificielle, Tours, France, October 29 – 31, 2007.
- Member of the Program Committee of the 3rd Portuguese Workshop on Artificial Life and Evolutionary Algorithms – ALEA'07, Guimarães, Portugal, December 3 – 7, 2007.
- Member of the Program Committee of the 5th European Workshop on Evolutionary Computation in Stochastic and Dynamic Environments (EvoSTOC2008), Napoli, Italy, March 26 – 28, 2008.
- Member of the Program Committee of the 17th International Symposium on Methodologies for Intelligent Systems (ISMIS'08), Toronto, May 20 – 23, 2008.
- Program Chair of the 2008 IEEE Congress on Evolutionary Computation (CEC 2008), Hong Kong, June 1 – 6, 2008.
- Member of the Program Committee of the International Conference on New Trends in Intelligent Information Processing and Web Mining (IIPWM), Zakopane, Poland, June 16 – 18, 2008.
- Member of the Program Committee of the Workshop on “Intelligent Agents and Evolvable Systems”, part of ICCS 2008 (International Conference on Computational Science), Kraków, Poland, June 23 – 25, 2008.
- Member of the Program Committee of the Genetic and Evolutionary Computation Conference (GECCO-2008), Atlanta, July 12 – 16, 2008.
- Member of the International Advisory Committee of Workshop/Summer School on Evolutionary Computing and Lecture Series by Pioneers, University of Ulster, Northern Ireland, August 18 – 22, 2008.
- Member of the Advisory Committee of the International Conference on Convergence and Hybrid Information Technology (ICHIT 2008), Deajeon, South Korea, August 28 – 29, 2008.
- Member of the Program Committee of the Third International Conference on Bio-Inspired Computing: Theory and Practice, Adelaide, Australia, September 28 – October 1, 2008.

- Member of the Program Committee of the third biennial International Conference on Bio-inspired Optimization Methods and their Applications (BIOMA 2008), Ljubljana, Slovenia, October 2008.
- Member of the Program Committee of the third Learning and Intelligent OptimizatioN Workshop (LION 3), January 14 – 18, 2009, Trento, Italy.
- Member of the Program Committee of the Workshop on Intelligent Agents and Evolvable Systems, part of the International Conference on Computational Science (ICCS 2009), Baton Rouge, USA, May 25 – 27, 2009.
- Member of the Program Committee of the 1<sup>st</sup> International Congress on Computational Intelligence in Production Systems, CIPS09, Istanbul, Turkey, June 19 – 21, 2009.
- Member of the Program Committee of the 17th International Conference on Intelligent Information Systems (IIS 2009; Kraków, June 23 – 25, 2009).
- Member of the Program Committee of the 4th International Symposium Advances in Artificial Intelligence and Applications (AAIA'09), Mrągowo, Poland, October 12 – 14, 2009.
- Member of the program Committee of the 4th Portuguese Workshop on Artificial Life and Evolutionary Algorithms – ALEA'09, Aveiro, Portugal, October 12 – 15, 2009.
- Member of the Program Committee of the Fourth International Conference on Bio-Inspired Computing: Theories and Applications (BIC-TA 2009), Beijing, China, October 16 – 19, 2009.
- Member of the Program Committee of the 9th International Conference on Artificial Evolution (EA'09), Strasbourg, France, October 26 – 28, 2009.
- Member of the Program Committee of the I Workshop on Emergent Computing (WEC 2009), Santiago de Chile, November 9-14, 2009.
- Member of the Program Committee of the International Conference on Learning and Intelligent OptimizatioN – LION 4, Venice, Italy, January 18 – 22, 2010.
- Member of the Program Committee of the International Conference on Bioinspired Optimization Methods and their Applications (BIOMA 2010), Ljubljana, Slovenia, May 2010.
- Member of the Technical Committee of the International Conference on Business Intelligence and Data Warehousing, Singapore, June 2010.
- Member of the Technical Committee of the 18th International Conference on Intelligent Information Systems (IIS 2010), Siedlce, Poland, June 8 – 10, 2010.
- Member of the Program Committee of the 10<sup>th</sup> International Conference on Artificial Intelligence and Soft Computing, Zakopane, Poland, June 13 – 17, 2010.
- Member of the Program Committee of the Special Session on Evolutionary Computing, 9th IEEE International Conference on Cognitive Informatics (ICCI 2010), Tsinghua University, Beijing, China, July 7 – 9, 2010.
- Member of the Program Committee of the Fifth International Conference on Bio-Inspired Computing: Theories and Applications (BIC-TA 2010), Liverpool Hope University, UK, September 8 – 10, 2010.
- Member of the Program Committee of the 11<sup>th</sup> International Conference on Parallel Problem Solving from Nature (PPSN'10), Kraków, Poland, September 11 – 15, 2010.

- Member of the Program Committee of the 5th International Symposium Advances in Artificial Intelligence and Applications (AAIA'10), Wisła, Poland, October 18 – 20, 2010.
- Member of the Program Committee of the International Conference on Evolutionary Computation (ICEC 2010), Valencia, Spain, October 24 – 26, 2010.
- Member of the Advisory Committee of the Industrial Session at the Eighth International Conference on Simulated Evolution and Learning (SEAL-2010), IIT Kanpur, India, December 1 – 4, 2010.
- Member of the Program Committee of the 23rd Australasian Joint Conference on Artificial Intelligence (AI'10), Adelaide, South Australia, December 7 – 10, 2010.
- Member of the Program Committee of the Fifth Learning and Intelligent OptimizatioN conference (LION5) , Rome, Italy, January 17 – 21, 2011.
- Member of the Program Committee of the 2011 IEEE Symposium on Computational Intelligence in Industry (CII 2011), within the IEEE Symposium Series on Computational Intelligence, Paris, France, April 11 – 15, 2011.
- Member of the Program Committee of the 2011 IEEE Workshop on Computational Intelligence in Production and Logistics Systems, Paris, France, April 11 – 15, 2011.
- Advisory Chair for the 2011 IEEE Congress on Evolutionary Computation (CEC 2011), New Orleans, Louisiana, June 5 – 8, 2011.
- International Advisory Board of the 25<sup>th</sup> European Conference on Modelling and Simulation – ECMS 2011, Kraków, Poland, June 7 – 10, 2011.
- Member of the Program Committee of the International Conference on Security & Intelligent Information Systems, Warsaw, Poland, June 13 – 14, 2011.
- Member of the Scientific Committee of the 26<sup>th</sup> Mini-EURO Conference, Poznań, Poland, September 6 - 9, 2011.
- Member of the Program Committee for the 6th International Symposium Advances in Artificial Intelligence and Applications (AAIA'11), Szczecin, Poland, September 19 – 21, 2011.
- Member of the Technical Committee of the International Conference on Evolutionary and Deterministic Methods for Design, Optimization and Control with Applications to Industrial and Societal Problems (EUROGEN 2011), Capua, Italy, September 14 – 16, 2011.
- Member of the Program Committee of the 6th International Conference on Bio-Inspired Computing - Theory & Applications, School of Computer Science, Univ. Sains Malaysia (USM), September 26 – 29, 2011.
- Member of the Program Committee of ALEA at EPIA2011, the 5th Workshop on Artificial Life and Evolutionary Algorithms, Lisbon, Portugal, October 10 – 13, 2011.
- Member of the Program Committee of the 24th Australasian Joint Conference on Artificial Intelligence (AI'11), Perth, Australia, December 5 – 8, 2011.
- Member of the International Advisory Committee of the International Conference on Soft Computing for Problem Solving, IIT Roorkee Campus, India, December 20 – 22, 2011.
- Member of the Program Committee of the Learning and Intelligent OptimizatioN Conference (LION 6), Paris, France, January 16 – 20, 2012.

- Member of the Program Committee of the 1st International Conference on Operations Research and Enterprise Systems” – ICORES 2012, Vilamoura, Algarve, Portugal, February 4 – 6, 2012.
- Member of the Technical Committee of the 2nd International Conference on Consumer Electronics, Communications and Networks (CECNet 2012), Three Gorges, China, April 21 – 23, 2012.
- Member of the Program Committee of the Fifth International Conference on Bioinspired Optimization Methods and their Applications (BIOMA-2011), Bohinj, Slovenia, May 24 – 25, 2012.
- Member of the Program Committee of the 2012 IEEE Congress on Evolutionary Computation (CEC 2012), Brisbane, Australia, June 10 – 15, 2012.
- Member of the Program Committee of the 12th International Conference on Parallel Problem Solving from Nature (PPSN 2012), Taormina, Italy, September 1 – 5, 2012.
- Member of the Program Committee of the Computational Intelligence and Modern Heuristics in Automation; Track Session at the 17th IEEE International Conference on Emerging Technologies & Factory Automation ETFA’ 2012, Kraków, Poland, September 17 – 21, 2012.
- Member of the Advisory Committee of the 3<sup>rd</sup> International IT Summit Confluence 2012 – The Next Generation Information Technology Summit, Amity University, Uttar Pradesh, Noida, September 27 – 28, 2012.
- Member of the Program Committee of the 1<sup>st</sup> International Conference on Robot Intelligence Technology and Applications (RiTA’2012), Kimdaejung Convention Center, Gwangju, South Korea, December 15 – 18, 2012.
- International Advisory Committee Member of the Second International Conference on “Soft Computing for Problem Solving, 2012 (SocProS-2012)”, JK Lakshmipat University, Jaipur, December 28 – 30, 2012.
- Member of the Program Committee of the Learning and Intelligent Optimization Conference (LION 7), Catania, Italy, January 7 – 11, 2013.
- Member of the Technical Committee of the International Conference on Evolutionary and Deterministic Methods for Design, Optimization and Control with Applications to Industrial and Societal Problems (EUROGEN 2013), University of Las Palmas de Gran Canaria (ULPGC), Canary Islands, Spain, October 7 – 9, 2013.
- International Corresponding Member of EUROGEN 2013 – 10<sup>th</sup> International Conference on Evolutionary and Deterministic Methods for Design, Optimization and Control with Applications to Industrial and Societal Problems.
- Member of the International Advisory Board of the 10<sup>th</sup> International Conference on Simulated Evolution and Learning (SEAL’14), Otago, New Zealand, December 15 – 19, 2014.
- Member of the International Advisory Committee of the International Conference on Computational Intelligence and Communication Networks (ICRCICN 2015), Kolkata, India, November 20 – 22, 2015.
- Honorary Chair of the 3<sup>rd</sup> International Symposium on Computational & Business Intelligence (ISCBI15), Bali, Indonesia, December 7 – 8, 2015.
- Member of the International Advisory Committee of The Eleventh International Conference on Simulated Evolution and Learning 2016 (SEAL 2016), ABV – Indian Institute of Information Technology and Management Gwalior, India, December 16 – 19, 2016.

- Member of the International Advisory Committee of the Second International Conference on Computational Intelligence and Communication Networks (ICRCICN 2016), Kolkata, India, September 23 – 25, 2016.
- Honorary Chair of the Intl. Conf. on Intelligent Systems. Metaheuristics & Swarm Intelligence (ISMSI), Hong Kong, March 2017.
- Member of the International Advisory Board of the 5<sup>th</sup> International Symposium on Computational and Business Intelligence, Dubai, UAE, August 11 – 14, 2017.
- Member of the Steering Committee of the AAIA Symposium, Federated Conference on Computer Science and Information Systems, Prague, Czech Republic, 3 – 7 September 2017.
- Member of the International Advisory Committee of the IEEE International Conference on Advanced Computational and Communication Paradigm and Applications (ICACCPA 2017), Sikkim Manipal Institute of Technology, India, September 8 – 10, 2017.
- Member of the Advisory Committee of the 1<sup>st</sup> International Conference on Data, Engineering and Applications (IDEA-2k17), Bhopal, India, October 28 – 29, 2017.
- Member of the International Advisory Committee of the 2017 Third IEEE International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN 2017), Sikkim, India, November 3 – 5, 2017.
- Member of the International Advisory Board of the 11<sup>th</sup> International Conference on Simulated Evolution and Learning (SEAL 2017), Shenzhen, China, November 11 – 13, 2017.
- Member of the International Advisory Board of the Intl. Conf. on Intelligent Systems. Metaheuristics & Swarm Intelligence (ISMSI), Phuket, Thailand, March, 2018.
- Member of the Steering Committee of the AAIA Symposium, Federated Conference on Computer Science and Information Systems, 2017.
- Member of the International Advisory Committee of the International Conference on Computer Network, Security and Computing (ICCSC-2018), Bangalore. India, 25 – 26 May 2018.
- Member of the International Advisory Board of the IEEE 5th International Conference on Soft Computing & Machine Intelligence (ISCFMI 2018), Nairobi, Kenya, November 21-22, 2018.
- Member of the International Advisory Committee of the 2018 Fourth IEEE International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN 2018), Kolkata, India, November 22 – 24, 2018.
- Member of the Advisory Board of the Australasian Joint Conference on Artificial Intelligence, Wellington, New Zealand, December 4 – 7, 2018.
- Member of the Advisory Board of the IEEE Congress on Evolutionary Computation, Wellington, New Zealand, June 10 – 13, 2019.
- Member of the Advisory Committee of the 8th Joint International Conference on Swarm, Evolutionary and Memetic Computing Conference (SEMCCO 2020), Wuhan, China, June 12 – 14, 2020.

## Teaching

- Courses taught: Analysis and Design of Algorithms, Data Structures, Introduction to File Processing, Analysis and Design of Algorithms, Database Design and Implementation, Software System Design and Implementation, Evolutionary Computation, Algorithms and Data Structures, Heuristic Methods, Database Systems, Design, and Management, and Advanced Topics in Database Systems, Design, and Management, Adaptive Business Intelligence, Puzzle-Based Learning;
- Top student evaluations and excellent student comments;
- Supervision of 41 master thesis;
- Supervision of 12 PhD thesis; member of PhD committees of several PhD students;
- Providing tele-classes for other universities (Winston Salem State University, North Carolina State University, University of North Carolina at Chapel Hill);
- Teaching educational classes for the IBM (1990-1995);
- ACM Lecturer (1991)
- Teaching outside the campus (addressing graduate programs in Poland, Argentina, Chile, Sweden, France, Germany, New Zealand, Australia, Italy, Spain, Netherlands, Denmark, China, Japan, South Korea, Mexico).

## Grants

- Project title: *Evolutionary Real-time Optimization System for Ecological Power Control*, Project ID: ESPRIT Project 20288 Cooperation Research in Information Technology (CRIT-2), PLN 500,000, start date: 15 October 1996, end date: 15 April 2000.
- Project title: *Handling Constraints in Evolutionary Algorithms*, Project ID: IRI-9322400 NSF (National Science Foundation), USD 120,000, start date: 1 January 1996, end date: 31 December 1998.
- Project title: *Handling Constraints in Evolutionary Algorithms*, Project ID: IRI-9725424 NSF (National Science Foundation), USD 36,000, start date: 1 January 1999, end date: 31 December 1999.
- Project title: *Klasyfikacja algorytmów genetycznych z wykorzystaniem metod układów dynamicznych*, Project ID: 3 T11C 007 28, MNiSW (Ministerstwo Nauki i Szkolnictwa Wyższego), PLN 95,450, start date: 9 June 2005, end date: 8 November 2007.
- Project title: *Metody heurystyczne dla inteligentnego wspomagania trudnych problemów*, Project ID: N 516 3847 34, MNiSW (Ministerstwo Nauki i Szkolnictwa Wyższego), PLN 132,956, start date: 9 June 2008, end date: 8 June 2011.
- Project title: *Samoadaptacyjne algorytmy optymalizacji inspirowane biologią*, Project ID: N N519 5788038, MNiSW (Ministerstwo Nauki i Szkolnictwa Wyższego), PLN 220,000, start date: 21 March 2010, end date: 21 April 2014.
- Project title: *The Next Step in Intelligent Decision-Support Systems (IDSS): Systems that Learn and Adapt*, Project ID: DP0985723, ARC (Australian Research Council), AUD 281,000, start date: 1 January 2009, end date: 31 December 2011.

- Project title: *Computational Intelligence Methods for Financial Applications*, Project ID: DP1096053, ARC (Australian Research Council), AUD 165,000, start date: 1 January 2010, end date: 31 December 2012.
- Project title: *Advanced Planning Systems for Vertically Integrated Supply Chain Management*, Project ID: DP130104395, ARC (Australian Research Council), AUD 315,000, start date: 1 July 2013, end date: 30 June 2016.
- Project title: *Bio-inspired Computing for Problems with Dynamically Changing Constraints*, Project ID: DP160102401, ARC (Australian Research Council), AUD 400,000, start date: 1 January 2016, end date: 31 December 2018.

## Awards

- Nomination for the Alcoa Foundation Outstanding Faculty Award in 1992 and 1993.
- Recipient of the Alcoa Foundation Outstanding Faculty Award in 1994.
- Nominations for the NationsBank Teaching Excellence Award in 1994 and 1997.
- Recipient of the First Citizens Bank Scholars Medal in 1996, the highest award for research and scholarship granted by UNC-Charlotte.
- The paper *Parameter Control in Evolutionary Algorithms*, by Eiben, A.E., Hinterding, R., and Michalewicz, Z., IEEE Transactions on Evolutionary Computation, Vol.3, No.2, 1999, pp.124 – 141, was awarded “Paper of the Year” by the IEEE.
- Recipient of the Blue Diamond Award for Technology Innovation in 2001, the highest award for applied science granted by the city of Charlotte.
- Finalist of the 2008 Science Excellence Awards in the category of Excellence in Research for Commercial Benefit (South Australia), August 2008.
- Finalist of the 2010 Science Excellence Awards in the category of Excellence in Research for Commercial Benefit (South Australia), August 2010.
- Instructional Innovation Award presented by the Decision Sciences Institute, November 2010.
- The paper *Intelligent Techniques for Forecasting Multiple Time Series in Real-world Systems*, by Wagner, N., Michalewicz Z., Schellenberg, S., Chiriac, C., Ibrahimov M., and Mohais, A., International Journal of Intelligent Computing and Cybernetics, Vol.4, No.3, 2011, pp. 284 – 310, was recognized as the most downloaded paper with 766 full-text article downloads.
- Nomination for the SA Scientist of the Year, Adelaide, 2013.
- The paper *Applying Puzzle-Based Learning to Cyber-Security Education* by Dipankar Dasgupta, Denise M. Ferebee, and Zbigniew Michalewicz, got best runner-up paper award at 2013 Information Security Curriculum Development Conference (InfoSecCD2013) on October 12, 2013, Kennesaw State University, Georgia.
- Recipient of the Order of the Rebirth of Polish Polonia Restituta – the second highest Polish state decoration civilian, awarded for outstanding achievements in the field of education, science, sports, culture, arts, economy, national defense, social activities, the civil service and the development of good relations with other countries, December 2013.

- The paper *SPSO2011 – Analysis of stability, local convergence, and rotation sensitivity* by Bonyadi, M.R. and Michalewicz, Z. got the best paper award in the ACO/SI track at GECCO'2014 (Vancouver, Canada, July 12 – 16, 2014).
- The paper *Implicit memory-based technique in solving dynamic scheduling problems through Response Surface Methodology – Part I: Model and method* by Abello, M. and Michalewicz, Z., International Journal of Intelligent Computing and Cybernetics (IJICC), Vol. 7, No 2, pp. 114 – 142, got the 2014 Highly Commended Paper Award (best paper award).
- Winner of the 2018 Science Excellence Awards in the category of STEM Professional (Science, Technology, Engineering and Mathematics), Adelaide, SA, 10 August 2018.
- Recipient of the 2019 IEEE CIS Evolutionary Computation Pioneer Award, which recognises his significant contributions to early concepts and sustained developments in the field of evolutionary computation.
- Recipient of the Award from the Polish Neural Network Society in recognition of outstanding contributions to the development of computational intelligence, June 2019.
- Recognised as a Research Field Leader in the field of Evolutionary Computation, The Australian Research 2020.
- The paper *Particle swarm optimization for single objective continuous space problems: a review*, by Bonyadi, M.R. and Michalewicz, Z., Evolutionary Computation, Vol. 25, No. 1, pp. 1 – 54, 2017, is recognized as the most downloaded paper with 2,290 times full-text article downloads over the last 12 months (on 30 Nov 2020).