

## **ZBIGNIEW MICHALEWICZ**

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### **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:  
PhD. in Computer Science (with distinction)
- Technical University of Warsaw, 1974:  
MSc. in Applied Mathematics (with distinction)

### **Employment:**

- School of Computer Science, University of Adelaide, Australia, Professor, from November 2004 – present.
- Chairman of the Board of SolveIT Software, from April 2005 – present.
- Department of Computer Science, University of North Carolina-Charlotte, Professor, January 2004 – December 2004.
- Polish-Japanese Institute of Information Technology, Warsaw, Poland, Professor, January 2004 – present.
- NuTech Solutions, Inc., Chief Scientist, January 2000 – September 2003.
- Department of Computer Science, University of North Carolina-Charlotte:
  - Chairman, November 1999 – January 2001.
  - Professor, July 1988 – January 2001.
- Institute of Computer Science, Polish Academy of Sciences, Warsaw, Poland, Professor, October 1994 – present.
- 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 – December 1981.

## Books:

- Michalewicz, Z.,  
*Security of Statistical Databases*, Polish Scientific Publishers, Warsaw, 1982 (in Polish).
- Michalewicz, Z., (Editor),  
*Proceedings of the 5th International Conference on Statistical and Scientific Database Management*, Charlotte, April 3 – 5, 1990, Springer-Verlag, Lecture Notes in Computer Science, No.420.
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*Statistical and Scientific Databases*, Ellis Horwood, London, 1991.
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*Genetic Algorithms + Data Structures = Evolution Programs*, Springer-Verlag, Artificial Intelligence Series, New York, 1992.
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- Baeck, T., Fogel, D., and Michalewicz, Z. (Editors),  
*Handbook of Evolutionary Computation*, joint publication of Oxford University Press and Institute of Physics, 1997.
- Dasgupta, D. and Michalewicz, Z., (Editors),  
*Evolutionary Algorithms in Engineering Applications*, Springer-Verlag, New York, 1997.
- Baeck, 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.
- Michalewicz, Z.,  
*Genetic Algorithms + Data Structures = Evolution Programs*, Korean translation, Green Publishing Co., Seoul, 1998.
- Eiben, A.E. and Michalewicz, Z. (Editors),  
*Evolutionary Computation*, IOS Press, Amsterdam, 1998.

- 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.
- Michalewicz, Z.,  
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- Michalewicz, Z. and Fogel, D.,  
*How to Solve It: Modern Heuristics*, Springer-Verlag, Berlin, 2000.
- Baeck, T., Fogel, D., and Michalewicz, Z. (Editors),  
*Evolutionary Computation: Basic Algorithms and Operators*, Institute of Physics, London, 2000.
- Baeck, T., Fogel, D., and Michalewicz, Z. (Editors),  
*Evolutionary Computation: Advanced Algorithms and Operators*, Institute of Physics, London, 2000.
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- Michalewicz, Z. and Fogel, D.,  
*How to Solve It: Modern Heuristics*, 2nd extended edition, Springer-Verlag, Berlin, 2004.
- Bolc, L., Michalewicz, Z., and Nishida, T. (Editors),  
*Proceedings of the Second Workshop on Intelligent Media Technology for Communicative Intelligence*, Springer-Verlag, Lecture Notes in Computer Science, 2005.
- 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.
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- Michalewicz, Z., Schmidt, M., Michalewicz, M., Chiriac, C.,  
*Adaptive Business Intelligence*, Springer-Verlag, Berlin, 2007.
- Lima, C., Lobo, F., and Michalewicz, Z. (Editors),  
*Parameter Setting in Evolutionary Algorithms*, Springer Series Studies in Computational Intelligence, Springer-Verlag, Berlin, 2007.
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- Michalewicz, Z. and Siarry, P. (Editors),  
*Advances in Metaheuristics for Hard Optimization*, Springer-Verlag, Berlin, 2008.
- Hingston, P., Barone, L., and Michalewicz, Z. (Editors),

*Innovations in Evolutionary Design*, Natural Computing Series, Springer-Verlag, Berlin, 2008.

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- Michalewicz, Z., *Genetic Algorithms*, in *Encyclopedia of Operations Research & Management Science*, C. Harris and S. Gass (Editors), Kluwer Academic, 1996, pp.250 – 252.
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- Michalewicz, Z., *Introduction*, section C3.1 of *Handbook of Evolutionary Computation*, Oxford University Press and Institute of Physics, New York, 1997.
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*and Control*, S. Patnaik, L.C. Jain, S.G. Tzafestas, G. Resconi, and A. Konar (Editors), Springer-Verlag, 2006.

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### Articles in Journals:

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- Michalewicz, Z., and Yeo, A.,  
*Multiranges and Multitrackers in Statistical Databases*, Fundamenta Informaticae, Vol.X, No.4, December 1987, pp.41 – 48.
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- Michalewicz, Z., and Yeo, A.,  
*A Good Normal Form for Relational Databases*, Fundamenta Informaticae, Vol.XII, No.2, June 1989, pp.129 – 138.
- 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.
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*Current Research in Statistical and Scientific Databases: the V SSDBM*, IEEE Bulletin on Database Engineering, Vol.13, No.3, September 1990, pp.2 – 3.
- Michalewicz, Z.,  
*A Genetic Algorithm for Statistical Database Security*, IEEE Bulletin on Database Engineering, Vol.13, No.3, September 1990, pp.19 – 26.
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- 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.
- Michalewicz, Z., Ibrahimov, M., Schellenberg, S., Mohais, A. and Wagner, N., *Applicational of Evolutionary Methods for Complex Industrial Problems*, Proceedings of EUROGEN'09, T. Burczynski and J. Periaux (Eds), 2009.
- 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.

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

- Symposium on Foundations of Databases, Wisla, 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, Augustow, 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), Augustow, 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, 28 November 1995.
- Invited speaker for the 2nd IEEE International Conference on Evolutionary Computation, Perth, Australia, 29 November 1995.
- Seminar speaker at North Carolina State University, March 1996.
- Invited speaker for the 3rd IEEE International Conference on Evolutionary Computation, Nagoya, Japan, 20 – 22 May, 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 Conference (GECCO-2000), Las Vegas, NV, July 8 – 12, 2000.
- Tutorial speaker for the 2nd Congress on Evolutionary Computation, San Diego, CA, 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, Poznan, 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.
- Plenary speaker at the Mathematical Association of South Australia Annual Conference, Adelaide, Australia, 23 - 24 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.
- 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.
- 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.
- Speaker for the Australian Computer Society (ten presentations: Perth, Bunbury, Brisbane, Gold Coast, Darwin, Melbourne, Sydney, Wollongong, Canberra, Hobart) on problem solving; in the program Education Across Nations, from March – November 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.
- Invited speaker at the Fourteen Australian Wine Industry Technical Conference, Adelaide, South Australia, July 3 - 8, 2010.
- Keynote speaker at the 11th International Conference on Parallel Problem Solving from Nature (PPSN), Cracow, Poland, September 11 - 15, 2010.

### **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).
- Editorial board of the international journal Evolutionary Computation (MIT Press).
- Editorial board of the international journal Fundamenta Informaticae (IOS Press)..
- Editorial board of the international journal on Natural Computing, (Kluwer Academic).
- 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-Verlag).
- Associate Editor of the Argentinian Journal of Computer Science (Graduate Network of Argentine Universities).
- Area Editor of the Journal of Heuristics (Kluwer Academic).
- Associate Editor of the IEEE Transactions on Evolutionary Computation.
- 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.
- Guest Editor (with P. Siarry) for European Journal of Operational Research, Volume 185, Number 3, March 2008, on *Adaptation of Discrete Metaheuristics to Continuous Optimization*.
- Member of the Advisory Board for the Series on Natural Computing, Springer-Verlag.
- Member of the Training Committee of Evonet (The Network of Excellence in Evolutionary Computing), January 1, 1999 – 2003.

### **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 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, Augustow, 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), Taejeon, 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'99), 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, Ladek Zdroj, 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, CA, 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 7th 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, Lodz, 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, Poznan, Poland, September 13 – 16, 2005.
- Member of the Program Committee of the International Conference on Data Processing Technologies, Poznan, 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, 9 – 13 September 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” conference, 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, 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; Krakow, June 23 – 25, 2009.
- Member of the Program Committee of the 4th International Symposium Advances in Artificial Intelligence and Applications (AAIA'09), Mragowo, 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 11<sup>th</sup> International Conference on Parallel Problem Solving from Nature, Cracow, Poland, 11 – 15 September 2010.

## 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, Sweden, Denmark, China, Japan, South Korea, Mexico).

## 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 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, was awarded “Paper of the Year” by 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.