

## CURRICULUM VITAE

JÁNOS D. PINTÉR

### PERSONAL INFORMATION

Place of birth: Budapest, Hungary  
Date of birth: February 4, 1948  
Citizenship: Canadian and Hungarian

### PRIMARY PROFESSIONAL AFFILIATIONS

President / Owner & Research Scientist, Pintér Consulting Services, Inc. (PCS), Canada  
(Since 1994) E-mail: [janos.d.pinter@gmail.com](mailto:janos.d.pinter@gmail.com) Web: <http://www.pinterconsulting.com>

Chief Technology Officer, Optimal Management Consulting Group, Turkey (Since 2008)  
Web: <http://www.optimalmcg.com>

Visiting Professor, Özyeğin University, Istanbul, Turkey (Since 2009)  
E-mail: [janos.pinter@ozyegin.edu.tr](mailto:janos.pinter@ozyegin.edu.tr) Web: <http://www.ozyegin.edu.tr>

### EDUCATION AND PROFESSIONAL DEGREES

Degree	Field	Year	Institution
D.Sc.	Mathematical Sciences	1999	Hungarian Academy of Sciences
Ph.D.	Probability Theory: Stochastic Optimization	1982	Moscow State (Lomonosov) University, Moscow, Russia
Dr. Rer. Nat.	Operations Research	1977	Eötvös University of Sciences Budapest, Hungary
M.Sc.	Applied Mathematics Operations Research	1973	Eötvös University of Sciences Budapest, Hungary

### LANGUAGES

- English: advanced, near-to-native professional level; I have been working over 25 years in various English speaking environments since 1987 and lived in Canada between 1991-2007
- Hungarian: native
- Russian: intermediate to advanced: I wrote my Ph.D. thesis, worked and studied about two years full-time in Russia between 1978-1982; good professional reading and fair speaking capability (both could be refreshed in a relatively short time, if needed)
- Dutch, French, German, Turkish (elementary level speaking, better reading capability)

### EMPLOYMENT EXPERIENCE

Years	Employment	Position
2009-Present	Özyeğin University, Istanbul, Turkey	Visiting Professor
2008-Present	Optimal Management Consulting Gr., Turkey	Chief Technology Officer
2008-2009	Bilkent University, Ankara, Turkey	Visiting Associate Professor
1994– Present	Pintér Consulting Services, Inc., Canada	President & Research Scientist
1994–2007	Dalhousie University, Halifax	Adjunct Professor
1993–1994	Atlantic Industrial Research Institute, Halifax	Senior Research Associate
1991–1993	Dalhousie University, Halifax	Associate Professor and Technical Project Director

1990–1991	Institute for Inland Water Management and Wastewater Treatment, Lelystad, Netherlands	Senior Research Scientist
1989–1990	Institute of Transport Sciences, Budapest, Hungary	Scientific Advisor
1988–1989	Water Resources Research Centre, Budapest	Scientific Advisor
1987	Technical University, Delft, Netherlands	Visiting Research Fellow
1983–1986	Water Resources Research Centre, Budapest	Scientific Advisor
1981–1983	Eötvös University of Sciences, Budapest	Senior Research Associate and Lecturer
1980–1981	Computing Center for Universities and University of Economics, Budapest	Senior Research Associate and Lecturer
1979–1980	International Institute of Control Sciences Moscow, Russia	Senior Research Associate
1973–1979	Computing Center for Universities and University of Economics, Budapest	Research Associate and Lecturer

## RESEARCH EXPERIENCE

### Summary

Development, computer based implementation, and applications of advanced optimization techniques and decision support systems. These techniques have been used to analyze and to solve a large variety of scientific, engineering, economic and financial decision problems. The software products developed by myself with partners are used worldwide at over 400 academic, business, and research organizations.

### Specific Areas of Interest

- Nonlinear (global and local) optimization: theory, algorithm development and implementation
- Decision making under uncertainty (stochastic systems analysis and optimization): theory, algorithm development and implementation
- Development of computer-based decision support systems
- Engineering, economic, financial, and scientific applications of the methodology listed above

## TEACHING EXPERIENCE

### Undergraduate Teaching

- Calculus
- Probability Theory and Statistics
- Introduction to Operations Research
- Introduction to Computer Programming
- Programming Languages (Fortran, Basic)
- Introduction to Business Statistics

### Graduate Teaching

- Nonlinear Programming: Local Optimization Theory and Applications
- Stochastic Optimization: Theory and Applications
- Global Optimization: Theory and Applications
- Decision Support Systems: Model Development and Solution in Integrated Development Environments

- Operations Research Applications: Engineering, Economic, and Scientific Case Studies

### **Supervision, Examination and Advisory Activity Related to M.Sc. and Ph.D. Studies**

- Global Optimization: Theory, Algorithms, and Applications
- Stochastic Optimization: Theory, Algorithms, and Applications
- Integrated Decision Support Systems: Model Development and Applications
- Industrial and Environmental Systems Analysis and Management Applications

### **Short Courses, Tutorials and Workshops for Professional Attendees**

- Nonlinear Systems Modeling and Optimization
- Advanced Nonlinear (Global and Local) Optimization: Algorithm and Software Development
- Nonlinear Optimization: Engineering, Econometric, Financial, and Scientific Applications

Please see [http://www.pinterconsulting.com/l\\_w.html](http://www.pinterconsulting.com/l_w.html) for a list of recent lectures; an illustrative list is provided later on in this document.

### **SOFTWARE DEVELOPMENT EXPERIENCE**

Currently active professional software development partnerships are established with AMPL LLC, GAMS Development Corporation, Lahey Computer Systems, Maplesoft, Maximal Software, Paragon Decision Technologies, TOMLAB Optimization, University of Ballarat, Wolfram Research, and others. Proprietary products and joint products with developer partners include the following (listed in the order of release):

- LGO solver system for global and local nonlinear optimization with a text I/O interface, for C and Fortran (and, on request, other) compilers; distributed by PCS
- LGO solver system with a Windows GUI, to use in conjunction with compilers (as above); distributed by PCS
- GAMS /LGO, in cooperation with the GAMS Development Corporation
- MathOptimizer for Mathematica, distributed by PCS and by Wolfram Research
- MathOptimizer Professional (Mathematica/LGO) for Mathematica, with Frank Kampas, PhD; distributed by PCS and by Wolfram Research
- TOMLAB /LGO for MATLAB, in cooperation with TOMLAB Optimization
- Maple Global Optimization Toolbox, in cooperation with Maplesoft
- MPL/LGO, in cooperation with Maximal Software
- AIMMS/LGO solver engine, in cooperation with Paragon Decision Technologies
- AMPL/LGO, in cooperation with AMPL LLC; distributed by PCS
- Excel /LGO, a direct solver link to Excel, developed in cooperation with Frank Kampas, PhD and Baris Cem Sal, BEng; distributed by PCS
- MATLAB/LGO, a direct solver link to MATLAB, developed in cooperation with Frank Kampas, PhD and Baris Cem Sal, BEng; distributed by PCS

Website links to all listed software products are available at <http://www.pinterconsulting.com>.

### **RESEARCH AND EDUCATIONAL IMPACT**

In numerous cases, M.Sc. and Ph.D. level studies, as well as more advanced research studies, have been based upon – or have been directly related to – my contributions (books, articles, presentations, software) to stochastic and global optimization. Such research studies have been

conducted by researchers and students, e.g., in the following countries: Australia, Austria, Canada, Finland, France, Germany, Greece, Hungary, Indonesia, Iceland, Italy, Japan, Netherlands, New Zealand, Russia, Turkey, United Kingdom, United States. The number of independent references (peer citations) to my research work and publications in the worldwide professional literature is in the order of thousands.

### **SELECTED FURTHER PROFESSIONAL ACTIVITIES AND ACHIEVEMENTS**

- Author and editor of several books; please see <http://www.pinterconsulting.com/b.html> and subsequent sections of this document
- Author and co-author of nearly 200 book chapters, articles, and technical reports: please see [http://www.pinterconsulting.com/l\\_o\\_p.html](http://www.pinterconsulting.com/l_o_p.html). A categorized listing is provided in subsequent sections of this document
- Editorial board member: *Journal of Global Optimization* (since 1991); *GAMS Global World and GAMS Performance World* web-fora (since 2002); *Journal of Applied Mathematics & Decision Sciences* (since 2003); *Algorithmic Operations Research* (since 2004); *International Journal of Modeling, Identification and Control* (since 2005)
- Author, contributing author, referee, editor, technical editor, and reviewer of books. The list of publishers that I work (or worked) with includes CRC Press, Duxbury / Thomson, Elsevier, Kluwer Academic Publishers, McGraw-Hill, Pergamon Press, Springer, Wiley, World Scientific
- Author, contributing author, referee, and editor of (so far, about 30) professional journals
- Invited lecturer, workshop presenter, course presenter, visiting scholar, conference and meeting participant (respectively) at universities, research institutions, industrial organizations, and conferences in over 30 countries of Europe, the Americas, Asia and the Pacific Region; an illustrative list of lectures is presented later on in this document
- Global Optimization Vice-Chair, INFORMS Optimization Society, 2002-2004
- INFORMS Traveling Speaker since 2003
- CORS Traveling Speaker since 2002
- Winner of the 2000 INFORMS Computing Society Prize
- Operations Research Panel reviewer, National Science Foundation, USA (on demand)
- Project advisor and consultant to government and private organizations (on demand)
- Canadian International Development Agency (CIDA) Project Advisor and Lecturer, Environmental Studies Centres Development Project, Indonesia, 1994-1995
- CIDA Project Lecturer, Beijing University, China, 1993
- Project Leader, Scientific Research Fund, Hungarian Academy of Sciences, 1990–1994
- Operations Research Committee Member, Hungarian Academy of Sciences, 1983–1993

### **MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**

Past and present society memberships include the following:

- Canadian Operational Research Society (current member)
- Hungarian Operations Research Society
- Institute for Operations Research and the Management Sciences (current member)
- Mathematical Programming Society
- Society for Industrial and Applied Mathematics

### **SELECTED PROFESSIONAL AWARDS AND GRANTS**

- United Nations Development Program Fellowship, USA, 1976

- PhD program fellowship awarded by the Hungarian Academy of Sciences, Moscow State University, 1978-1982
- Research Fellowship, Delft University of Technology, 1987
- Hungarians Scientific Research Fund grants for scientific research, 1991-2004
- Visiting Scholar, Wolfram Research, USA, 1998
- INFORMS Computing Society Prize for Research Excellence, USA/International, 2000
- Industrial R&D grants for scientific research, algorithm and professional software product development, National Research Council of Canada, 1999 and 2002
- Visiting Professor, Central Queensland University, Australia, 2001
- Visiting Research Fellow, University of Ballarat, Australia, 2002, 2003, 2004
- Numerous other visiting grants (lecture, workshop, course invitations) from over 30 countries of the world

#### **VOLUNTEER EXPERIENCE**

- World Vision Canada and Plan International Canada foster parent
- United Way, and Big Brothers and Sisters donor
- Cancer Cure volunteer and donor
- JazzEast volunteer and donor

#### **SOME PERSONAL HOBBIES**

- Reading, music (listening), arts, traveling, and various sports

Further details and professional references are available upon request.

## LIST OF PUBLICATIONS

JÁNOS D. PINTÉR

### Dissertations

1. *A Stochastic Programming Problem and its Solution by Random Search*. Dr. Rer. Nat. Dissertation. Eötvös University of Sciences, Budapest, 1975. (In Hungarian)
2. *Stochastic Methods for Solving Multiextremal, Non-smooth Problems in Stochastic Programming*. Ph.D. Dissertation, Department of Probability Theory, Lomonosow (Moscow State) University, Moscow, 1982. (In Russian)
3. *Global Optimization – Algorithms, Implementations, and Applications*. D.Sc. Dissertation, Hungarian Academy of Sciences, Budapest, 2000. (Hungarian thesis summary based on the monograph *Global Optimization in Action*, Kluwer Academic Publishers, 1996)

### Books

1. *Stochastic Optimization Procedures*. Hungarian State Textbook Publishers, 1984. (In Hungarian)
2. *Global Optimization in Action – Continuous and Lipschitz Optimization: Algorithms, Implementations and Applications*. Kluwer Academic Publishers, Dordrecht, 1996.
3. *Computational Global Optimization in Nonlinear Systems – An Interactive Tutorial*. (Includes software demo application programs.) Lionheart Publishing, Atlanta, GA, 2001.
4. *Global Optimization with Maple: An Introduction with Illustrative Examples*. An electronic book published by Pintér Consulting Services, Halifax, NS and Maplesoft, Waterloo, ON, 2006.

### Forthcoming Books (Near to Completion)

1. *Applied Nonlinear Optimization in Modeling Environments*. CRC Press, Boca Raton, FL.
2. *Optimization with Mathematica: Scientific, Engineering, and Economic Applications*. Co-author: Kampas, F.J.

### Edited Books

1. *Theory of Global Random Search*. Author: Zhigljavsky, A.A.; Technical Editor: Pintér, J. Kluwer Academic Publishers, Dordrecht, 1991.
2. *Global Optimization: Scientific and Engineering Case Studies*. Springer Science + Business Media, New York, 2006.

### Refereed Book Chapters

1. Stochastic optimization methods for solving mathematical programming problems. In: Mogyoródi, J., Vincze, I. and Wertz, W., eds. *Statistics and Probability*, pp. 271–282. Publishing House of the Hungarian Academy of Sciences, Budapest, 1984.
2. Decision models in water quality management. In: Katona, E., ed. *Handbook of Water Quality Management*, pp. 152–159. AQUA Kiadó, Budapest, 1989. (In Hungarian)
3. Lipschitzian global optimization: Some prospective applications. In: Floudas, C.A. and Pardalos, P.M., eds. *Recent Advances in Global Optimization*, pp. 399–432. Princeton University Press, Princeton, New Jersey, 1992.

4. LGO: A program system for continuous and Lipschitz optimization. In: Bomze, I.M., Csendes, T., Horst, R. and Pardalos, P.M., eds. *Developments in Global Optimization*, pp. 183-197. Kluwer Academic Publishers, Dordrecht, 1997.
5. A model development system for global optimization. In: De Leone, R., Murli, A., Pardalos, P.M. and Toraldo, G., eds. *High Performance Algorithms and Software in Nonlinear Optimization*, pp. 301-314. Kluwer Academic Publishers, Dordrecht, 1998.
6. Extremal energy models and global optimization. In: Laguna, M. and González-Velarde, J-L., eds. *Computing Tools for Modeling, Optimization and Simulation*, pp. 145-160. Kluwer Academic Publishers, Dordrecht, 2000.
7. Continuous global optimization: Software. Invited contribution to the *Encyclopedia of Optimization* (Floudas, C. A. and Pardalos, P.M., eds.) Kluwer Academic Publishers, Dordrecht, 2001.
8. Continuous global optimization: Illustrative applications. Invited contribution to the *Encyclopedia of Optimization* (Floudas, C. A. and Pardalos, P.M., eds.) Kluwer Academic Publishers, Dordrecht, 2001.
9. Global optimization in the analysis and management of environmental systems. Invited contribution to the *Encyclopedia of Optimization* (Floudas, C. A. and Pardalos, P.M., eds.) Kluwer Academic Publishers, Dordrecht, 2001.
10. Global optimization: Software, test problems, and applications. In: Pardalos, P. M. and Romeijn, H. E., eds. *Handbook of Global Optimization, Volume 2*, pp. 515-569. Kluwer Academic Publishers, Dordrecht, 2002.
11. O.R. model development and optimization with Mathematica. In: Golden, B., Raghavan, S., and Wasil, E., eds. *The Next Wave in Computing, Optimization, and Decision Technologies*, pp. 285-302. Springer Science + Business Media, New York, 2005. Co-author: Kampas, F.J.
12. Nonlinear optimization in modeling environments: software implementations for compilers, spreadsheets, modeling languages, and integrated computing systems. In: V. Jeyakumar and A.M. Rubinov, eds. *Continuous Optimization: Current Trends and Applications*, pp. 147-173. Springer Science + Business Media, New York, 2005.
13. MathOptimizer Professional: Key features and illustrative applications. In: Liberti, L., and Maculan, N., eds. *Global Optimization: From Theory to Implementation*, pp. 263-279. Springer Science + Business Media, New York, 2006. Co-author: Kampas, F.J.
14. Preface. In: Pintér, J. D., ed. *Global Optimization: Scientific and Engineering Case Studies*, pp. ix-xxi. Springer Science + Business Media, New York, 2006.
15. Determination of a distributed feedback laser's field solution using global optimization. In: Pintér, J. D., ed. *Global Optimization: Scientific and Engineering Case Studies*, pp. 181-212. Springer Science + Business Media, New York, 2006. Co-authors: Isenor, G. and Cada, M.
16. Optimization of radiation therapy dose delivery with multiple static collimation. In: Pintér, J. D., ed. *Global Optimization: Scientific and Engineering Case Studies*, pp. 461-485. Springer Science + Business Media, New York, 2006. Co-authors: Tervo, J., Kolmonen, P., and Lyyra-Laitinen, T.
17. Computational global optimization. In: *TutORials in Operations Research*, Published by the Institute for Operations Research and the Management Sciences (INFORMS), Hanover, MD, 2007. Co-author: Lasdon, L.S.
18. Global optimization in practice: State-of-the-art and perspectives. In: Gao, D. Y. and Sherali, H. D., eds., *Advances in Applied Mathematics and Global Optimization*, pp. 377-404. Springer Science + Business Media, New York, 2009.
19. Software development for global optimization. In: Pardalos, P.M. and T. F. Coleman, eds. *Global Optimization: Methods and Applications*, pp. 183-204. Fields Institute Communications Volume 55. Published by the American Mathematical Society, 2009.

## Refereed Journal Publications

1. Maximal deviation of empirical pdf-sequences: Application to a multi-period reliability type inventory model. *Alkalmazott Matematikai Lapok* 1 (1975) 189-195. (In Hungarian)
2. Technico-economic water quality model of the Sajó river. *Hidrológiai Közlöny* 57 (1977) 27-37. Co-authors: Bora, Gy., Hock, B., Mucsy, Gy., Réczey, G. and Rösler, K. (In Hungarian)
3. Water resources management model for the Sajó region. *Vizügyi Közlemények* (1977) 3, 418-426. (In Hungarian)
4. Random search procedures: Convergence and numerical efficiency. *Alkalmazott Matematikai Lapok* 4 (1978) 197-228. (In Hungarian)
5. Stochastic models for regional water quality management. *Hidrológiai Közlöny* 60 (1980) 364-373. (In Hungarian)
6. On a method of random search for unconstrained minimization. *Avtomatika i Telemekhanika* (1980) No. 12, 76-85. (In Russian; English translation in: *Automation and Remote Control* (1980) No. 12.)
7. Hybrid procedures for solving non-smooth stochastic problems. *Alkalmazott Matematikai Lapok* 7 (1981) 83-97. (In Hungarian)
8. Stochastic methods for solving optimization problems. *Alkalmazott Matematikai Lapok* 7 (1981) 217-252. (In Hungarian)
9. Hybrid procedures for solving non-smooth constrained stochastic optimization problems. *Vestnik MGU, Ser. VMK* (1982) 1, 39-49. (In Russian; English translation in: *Moscow University Computational Mathematics and Cybernetics* (1982) No. 1.)
10. An improved Chebyshev inequality for estimating function values by Monte Carlo procedures. *Alkalmazott Matematikai Lapok* 9 (1983) 93-104. (In Hungarian)
11. Convergence properties of stochastic optimization procedures. *Optimization* 15 (1984) 405-427.
12. A modified Bernstein-technique for estimating noise-perturbed function values. *Calcolo* 22 (1985) 241-247.
13. A note on the frequency analysis and the statistical extrema of maximal precipitation. *Vizügyi Közlemények* 67 (1985) 348-353. (In Hungarian)
14. Globally convergent methods for n-dimensional multiextremal optimization. *Optimization* 17 (1986) 187-202.
15. Extended univariate algorithms for n-dimensional global optimization. *Computing* 36 (1986) 91-103.
16. Multiextremal optimization for calibrating water resources models. *Environmental Software* 1 (1986) 98-105. Co-authors: Szabó, J. and Somlyódy, L.
17. Global optimization on convex sets. *Operations Research Spektrum* 8 (1986) 197-202.
18. Water quality management: Methodology and applications. *Foundations of Control Engineering* 11 (1986) 177-189. Co-author: Somlyódy, L.
19. Global optimization procedures and their applications in water resources modelling. *Vizügyi Közlemények* 68 (1986) 520-529. (In Hungarian) Co-author: Szabó, J.
20. Optimization of regional water quality monitoring strategies. *Water Science and Technology* 19 (1987) 721-727. Co-author: Somlyódy, L.
21. A conceptual optimization framework for regional acidification control. *Systems Analysis, Modelling and Simulation* 4 (1987) 213-226.
22. Branch-and-bound algorithms for solving global optimization problems with Lipschitzian structure. *Optimization* 19 (1988) 101-110.
23. Deterministic approximations of probability inequalities. *ZOR – Methods and Models of Operations Research, Series Theory* 33 (1989) 219-239.

24. Optimization in risk management. *Civil Engineering Systems* 6 (1989) 122-128. Co-author: Cooke, R.
25. Environmental risk analysis and management. *Hidrológiai Közlöny* 69 (1989) 264-268. (In Hungarian)
26. Solving nonlinear equation systems via global partition and search: Some experimental results. *Computing* 43 (1990) 309-323.
27. On the convergence of adaptive partition algorithms in global optimization. *Optimization* 21 (1990) 231-235.
28. Risk management of accidental water pollution: An illustrative application. *Water Science and Technology* 22 (1990) 265-274. Co-authors: Benedek, P. and Darázs, A.
29. Globally optimized calibration of environmental models. *Annals of Operations Research* 25 (1990) 211-222.
30. Adaptive partition strategies for solving global optimization problems. *Alkalmazott Matematikai Lapok* 15 (1990/1991) 329-352. (In Hungarian)
31. Stochastic modelling and optimization for environmental management. *Annals of Operations Research* 31 (1991) 527-544.
32. Global convergence revisited: Reply to A. Zilinskas. *Computing* 46 (1991) 87-91.
33. Set partition by globally optimized cluster seed points. *European Journal of Operational Research* 51 (1991) 127-135. Co-author: Pesti, G.
34. An application of Lipschitzian global optimization to product design. *Journal of Global Optimization* 1 (1991) 389-401. Co-author: Hendrix, E.M.T.
35. Convergence qualification of partition algorithms in global optimization. (Revised and extended version.) *Mathematical Programming* 56 (1992) 343-360.
36. The impact of accelerating tools on the interval subdivision algorithm for global optimization. *European Journal of Operational Research* 65 (1993) 314-320. Co-author: Csendes, T.
37. Environmental model calibration under different problem specifications: An application to the model SED. *Ecological Modelling* 68 (1993) 1-19. Co-author: van der Molen, D.T.
38. A new interval method for locating the boundary of level sets. *International Journal of Computer Mathematics* 49 (1993) No. 1-2, 53-59. Co-author: Csendes, T.
39. An intelligent decision support system for assisting industrial wastewater management. *Annals of Operations Research* 58 (1995) 455-477. Co-authors: Fels, M, Lycon, D.S., Meeuwig, D.J., and Meeuwig, J.W.
40. Continuous and Lipschitz global optimization: Algorithms and applications. *Sigma* XXVII (1996) 3, 71-104. (In Hungarian)
41. Optimized design of wastewater treatment systems: Application to the mechanical pulp and paper industry. I. Design and cost relationships. *The Canadian Journal of Chemical Engineering* 75 (1997) 437-451. Co-authors: Fels, M. and Lycon, D.S.
42. Automatic model calibration applying global optimization techniques. *Environmental Modeling and Assessment* 3 (1998) 117-126. Co-authors: Finley, J.R. and Satish, M.G.
43. Globally optimized spherical point arrangements: Model variants and illustrative results. *Annals of Operations Research* 104 (2001) 213-230.
44. Finding elliptic Fekete points sets: Two numerical solution approaches. (Revised version.) *Journal of Computational and Applied Mathematics* 130 (2001) No. 1-2, pp. 205-216. Co-authors: Stortelder, W.J.H. and de Swart, J.J.B.
45. An optimization-based approach to the multiple static delivery technique in radiation therapy. (Revised version.) *Annals of Operations Research* 119 (2003) 205-227. Co-authors: Tervo, J., Kolmonen, P., Lyra-Laitinen, T., and Lahtinen, T.
46. A global optimization approach to laser design. *Optimization and Engineering* 4 (2003) (3) 177-196. Co-authors: Isenor, G. and Cada, M.

47. Globally optimized calibration of nonlinear models: techniques, software, and applications. *Optimization Methods and Software* 18 (2003) (3) 335-355.
48. Comparative assessment of algorithms and software for global optimization. *Journal of Global Optimization* 31 (2005) 613-633. Co-authors: Khompatraporn, C. and Zabinsky, Z.B.
49. Nonlinear optimization in Mathematica with MathOptimizer Professional. *Mathematica in Education and Research* 10 (2005) 2, 1-18. Co-author: Kampas, F.J.
50. Configuration analysis and design by using optimization tools in Mathematica. *The Mathematica Journal* 10 (2006) 1, 128-154. Co-author: Kampas, F.J.
51. Global Optimization Toolbox for Maple: An introduction with illustrative applications. *Optimization Methods and Software* 21 (2006) (4) 565-582. Co-authors: Linder, D. and Chin, P.
52. Nonlinear optimization with GAMS/LGO. *Journal of Global Optimization* 38 (2007) 79-101.
53. Integrated production system optimization using the Lipschitz Global Optimizer and the Discrete Gradient Method. *Journal of Industrial and Management Optimization* 3 (2007) 2, 257-277. Co-authors: Mason, T.L., Emelle, C., van Berkel, J., Bagirov, A.M., and Kampas, F.J.
54. Integrated software tools for the OR/MS classroom. *Algorithmic Operations Research* 3 (2008) 82–91. Co-authors: Castillo, I. and Lee, T.
55. Solving circle packing problems by global optimization: numerical results and industrial applications. *European Journal of Operations Research* 191 (2008) 786–802. Co-authors: Castillo, I. and Kampas, F.J.
56. Globally optimized model calibration for systems analysis and design. *International Journal of Modelling, Identification and Control* (2008). (To appear)
57. Model development and optimization in interactive computing environments. *Central European Journal of Operations Research* 16 (2008) 165–178.
58. A global optimization study on the devolatilisation kinetics of coal, biomass and waste fuels. *Fuel Processing Technology* 90 (2009) 762-769. Co-authors: G. Pantoleontos, P. Basinas, G. Skodras, P. Grammelis, S. Topis, G.P. Sakellariopoulos.
59. *MathOptimizer*: A nonlinear optimization package for *Mathematica* users. Co-author: Kampas, F.J. Submitted for publication.

### Conference Proceedings

1. Mathematical model for water quality management in the Sajó river, pp. 400–431. In: Deininger, R.A., ed. *Proc. WHO Seminar on Systems Analysis in Water Quality Management* (Budapest, 1975); University of Michigan Press, Ann Arbor, 1977. Co-authors: Bora, Gy., Francia, L., Kulcsár, D. and Réczey, G.
2. On the maximal distance between two series of empirical distribution functions, with application to an inventory problem. *Methods of Operations Research* 29 (1978) 623–636.
3. Some methodological aspects of optimization techniques in water quality management. In: *Proc. WHO Seminar on Water Quality Management* (Budapest, 1977), pp. 164–171. Water Resources Management Institute, Budapest, 1978.
4. On the convergence and efficiency of random search optimization. *Methods of Operations Research* 33 (1979) 347–362.
5. On a stochastic model of reservoir system sizing. In: Iracki, K., Malanowski, K. and Walukiewicz, S., eds. *Proceedings of the 9th IFIP Conference on Optimization Techniques* (Warsaw, 1979), pp. 546–558. Lecture Notes in Control and Information Sciences 23, Springer, Berlin.
6. Stochastically combined optimization procedures, their convergence and numerical performance. *Methods of Operations Research* 43 (1981) 143–150.

7. Stochastic procedures for solving optimization problems. *Methods of Operations Research* 45 (1983) 135–144.
8. Multiextremal (global) optimization algorithms for engineering applications. In: *Proc. Fourth International Conference on Engineering Software (ENGSOFT '85, Kensington, 1985)*, pp. 7–17 to 7–25. Springer, Berlin, 1985. Co-author: Szabó, J.
9. Global optimization algorithms: An axiomatic approach. In: *Proc. 30th Scientific Colloquium, Series E*, pp. 117–120. Technical University of Ilmenau, 1985.
10. Stochastic models and methods for the design and operation of water resources systems. In: *Proc. International Conference in Hydrology and Hydraulics (Phenjan, 1985)*. (In Russian.)
11. Contributions to the methodology of stochastic optimization. In: *Proc. IFIP Workshop on Stochastic Programming (Gargnano, Sept. 1983)*. Lecture Notes in Control and Information Sciences 76, Springer, Berlin, 1986.
12. A stochastic lake eutrophication management model. In: Arkin, V.I., Shiriaev, A.N. and Wets, R., eds. *Stochastic Optimization (Kiev, 1984)*, pp. 501-512. Lecture Notes in Control and Information Sciences 81, Springer-Verlag, Berlin, 1986. Co-author: Somlyódy, L.
13. Sampling strategy optimization for regional water quality monitoring. In: *Proc. 5th IFAC/IFORS Conference on Dynamic Modelling and Control of National Economies*. (Budapest, June 1986.) Co-author: Somlyódy, L.
14. Global optimization algorithms: Theory and some applications. In: Prékopa, A. Straziczky, B. and Szelezsán, J., eds. *Proc. 12th IFIP Conference on Systems Modelling and Optimization* (Budapest, 1985), pp. 704-713. Lecture Notes in Control and Information Sciences 84, Springer, Berlin, 1986. Co-author: Szabó, J.
15. Estimating averages and detecting trends in water quality data. In: *Proc. 2nd Scientific Assembly of the International Association for Hydrologic Sciences* (Budapest, 1986); *IAHS Publications* 157 (1986) 61–69. Co-authors: Somlyódy, L., Koncsos, L., Hanáček, I. and Juhász, I.
16. Water quality and management modelling of non-point source pollution – A case study. In: *Proc. 2nd Scientific Assembly of the International Association for Hydrologic Sciences* (Budapest, 1986); *IAHS Publications* 157 (1986) 197–206. Co-author: Jolánkai, G.
17. Optimization of regional water quality monitoring strategies. In: *Proc. 2nd Scientific Assembly of the International Association for Hydrologic Sciences* (Budapest, 1986); *IAHS Publications* 158 (1986) 259–268. Co-author: Somlyódy, L.
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25. *Environmentally Sensitive Investment System (ESIS) Project – Final Report. School of Business Administration, and School for Resource and Environmental Studies, Dalhousie University, Halifax, 1993. (185 pages)*
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62. Driving Innovation: How mathematical modeling and optimization increase efficiency and productivity in vehicle design. *Technical Report, Maplesoft, Waterloo, ON*, 2007. Co-authors: Goossens, P., McPhee, J., Schmitke, C., and Stahl, H.

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### **Invited Book and Software Reviews**

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2. *Developments in Global Optimization*, by Bomze, I.M., Csendes, T., Horst, R. and Pardalos, P.M., eds. *Optima* 57 (1998) 12-13.
3. *Meta-Heuristics*, by Osman, I.H. and Kelly, J.P., eds. *Journal of Global Optimization* 15 (1999) 105-107.
4. *Parallel Optimization*, by Censor, Y. and Zenios, S.A. *Journal of Global Optimization* (2000) 107-108.
5. *Meta-Heuristics: Advances and Trends in Local Search Paradigms for Optimization*, by Voss, S., Martello, S., Osman, I.H., and Roucairol, C., eds. *Interfaces* 30 (2000) 94-95.
6. *Operations Research: A Practical Introduction*, by Carter, M.W. and Price, C.C. *Interfaces* 32 (2002) 96-97.
7. *Interactive Operations Research with Maple*, by Parlar, M. *Interfaces* 32 (2002) 99-101.
8. *Handbook of Applied Optimization*, by Pardalos, P.M. and Resende, M.G.C., eds. *Optimization Methods and Software* 21 (2006) 4, 667-676.
9. *Principles of Object-Oriented Modeling and Simulation with Modelica 2.1*, by Fritzson, P. *Mathematica in Education and Research* 11 (2006) 4, 498-505.
10. *Introduction to Applied Optimization*, by Diwekar, U.M. *European Journal of Operations Research* 177 (2007) 646-648.

### **Conference Presentations, Workshops and Short Courses: An Illustrative List**

1. CORS Traveling Speaker; invited talks and tutorials at CORS Annual Meetings (about 20 presentations since 1994)
2. INFORMS Speaker; invited talks and tutorials at INFORMS Annual Meetings (about 50 presentations since 1996)
3. Regular live web seminars for Maplesoft (about 10 presentations since 2004)
4. Global Optimization Workshop, Australian Institute for Operational Research, Melbourne, Vic., Australia, July 2001
5. MOPTA 2002, McMaster University, Hamilton, ON, Canada, August 2002; invited CORS Speaker
6. Global Optimization Workshop, University of South Australia, Adelaide, SA, Australia, November 2002
7. Global Optimization Workshop, University of Ballarat, Vic., Australia, December 2002
8. Global Optimization Workshop, INFORMS Texas Chapter, San Antonio, TX, USA, March 2003
9. Global Optimization Lecture Series, Trinity University, San Antonio, TX, USA, March 2003
10. Mathematica Developer Conference, Champaign, IL, USA, April 2003; invited presentation
11. Global Optimization Lecture Series, Tilburg University, Netherlands, April 2003
12. GAMS Global Optimization Workshop, Washington, DC, USA, September 2003
13. ASTC Global Optimization Workshop, Arlington, VA, USA, April 2004
14. Operations Research International Conference, Tilburg University, Netherlands, September 2004; invited semi-plenary presentation
15. Global Optimization Workshop, Candiensten, Amsterdam, Netherlands, September 9-10, 2004

16. Global Optimization with Maple – Lectures in Aachen, Stuttgart, Zurich, September 2004
17. Mathematica Developer Conference, Champaign, IL, USA, October 2004; invited presentation
18. Global Optimization Lecture Series, UANL, Monterrey, Mexico, November 1-12, 2004
19. IW04, University of Melbourne, Melbourne, Vic., Australia, December 6, 2004; invited presentation
20. Global Optimization Tutorial, ICOTA 2004, University of Ballarat, Ballarat, Vic., Australia, December 8, 2004; invited presentation
21. Global Optimization Workshop; Annapolis, MD, USA, January 4, 2005
22. Maplesoft Annual Conference, Waterloo, ON, Canada, July 17-21, 2005; invited speaker
23. CDGO'05 Conference on Complementarity, Duality, and Global Optimization in Science and Engineering, Virginia Tech, Blacksburg, VA, USA, August 15-17, 2005; invited semi-plenary presentation
24. Applied Nonlinear Optimization Workshop, DRDC, Dartmouth, NS, Canada, October 12-14, 2005
25. Applied Nonlinear Optimization Lecture Series, University of Girona, Spain, April 24-28, 2006
26. Computational Global Optimization: Software Development and Advanced Applications, 21st European Conference on Operational Research, University of Iceland, Reykjavik, July 2-5, 2006; invited semi-plenary talk (and other presentations)
27. Global Optimization: Software Development and Advanced Applications, Fields Institute, Toronto, ON, Canada, October 3, 2006; invited presentation
28. Optimization with Maple, Atlantic Optimization Days, Fredericton, NB, Canada, October 5-6, 2006; invited presentation
29. INFORMS Annual Meeting, Pittsburgh, PA, USA, November 5-8, 2006; invited presentation in the Great Unsolved Problems in OR session series, and other lectures
30. Global Optimization Course: Models, Algorithms, Software, and Applications, University of Jyväskylä, Finland, March 12-16, 2007
31. Tekes-MASI Global Optimization Workshop, Helsinki School of Economics, Finland, March 19-20, 2007
32. Global Optimization Course: Models, Algorithms, Software, and Applications, Széchenyi University, Győr, Hungary, March 26-28, 2007
33. Global Optimization with Maple: An Introduction with Illustrative Examples, and Global Optimization in Practice: State-of-the-Art and Perspectives; University of Saskatchewan and Saskatchewan CORS Section, Saskatoon, SK, Canada, April 19-20, 2007, invited presentations
34. Workshop on Global Optimization: Methods and Applications, Fields Institute, Toronto, ON, Canada, May 11-12, 2007; invited presentation
35. Global (and Local Nonlinear) Optimization in Integrated Computing Systems, CORS National Meeting, London, ON, Canada, May 13-16, 2007; invited tutorial and other talks
36. Modeling and Optimizing Nonlinear Systems in Integrated Computing Environments, INFORMS International Meeting, Rio Grande, Puerto Rico, July 8-11, 2007; invited tutorial
37. ICCOPT II & MOPTA-07, McMaster University, Hamilton, ON, Canada, August 13-16, 2007; invited CORS Speaker, lectures on continuous and mixed integer optimization
38. Global Optimization in Nonlinear Systems: Algorithms, Software, and Applications, International Conference on Modelling, Identification and Control, Shanghai, China, June 29-July 2, 2008; invited plenary lecture
39. Global Optimization, SINTEF Workshop, Geilo, Norway, January 11-16, 2009; invited plenary lecture