

CURRICULUM VITAE



JÁNOS D. PINTÉR

PERSONAL INFORMATION

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

CURRENT PRIMARY PROFESSIONAL AFFILIATION

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

EDUCATION AND PROFESSIONAL DEGREES

Degree	Field	Year	Institution
D.Sc.	Mathematical Sciences	2000	Hungarian Academy of Sciences
Ph.D.	Probability Theory, Stochastic Optimization	1982	Moscow State (Lomonosov) University, Moscow, Russia
Dr. Rer. Nat.	Applied Mathematics, Operations Research	1977	Eötvös University of Sciences (ELTE), Budapest, Hungary
M.Sc.	Applied Mathematics, Operations Research	1973	Eötvös University of Sciences (ELTE), Budapest, Hungary

LANGUAGES

- English: advanced, professional level. I have been working in various English speaking environments since 1987; I lived in Canada from 1991 to 2007, and again since 2011.
- Hungarian: native, professional level. I was born and educated in Hungary, and worked there for more than two decades.
- Russian: intermediate to advanced level. I wrote my Ph.D. thesis in Russian, worked and studied about two years full-time in Russia between 1978 and 1982. I have good professional reading and fair speaking capability: these can be refreshed in a rather short time, if needed.
- Dutch, French, German, Turkish: fairly basic speaking, better reading capability.

EMPLOYMENT EXPERIENCE

Years	Employment	Position
1994– Present	Pintér Consulting Services, Inc., Canada	Proprietor & Research Scientist
2009-2011	Özyeğin University, Istanbul, Turkey	Visiting Professor
2008-2009	Bilkent University, Ankara, Turkey	Visiting Associate Professor
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 application of optimization models and algorithms.

I have been developing, implementing and using modeling and optimization techniques – often in interdisciplinary research team environments – to analyze and to solve a fairly broad range of scientific, engineering, econometric and financial decision problems.

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, customized decision support systems
- Engineering, econometric, financial, and scientific applications of the modeling and optimization methodology summarized above

TEACHING EXPERIENCE

Undergraduate Courses

- Accounting for Engineers
- Calculus for Business

- Calculus for Engineering
- Differential Equations
- Engineering Economics
- Introduction to Business Statistics
- Introduction to Computer Programming
- Introduction to Operations Research
- Operations Research in Finance
- Probability Theory and Statistics

Graduate Courses

- Nonlinear (Global and Local) Optimization: Theory, Models, Algorithms, Software, and Applications
- Stochastic Optimization: Theory, Models, Algorithms, Software, and Applications
- Operations Research Applications: Engineering, Econometric, Financial, 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 (Global and Local) Optimization – Theory, Models, Algorithms, Software Development, with Engineering, Econometric, Financial, and Scientific Applications

An illustrative list of (mostly invited) lectures is provided later on in this document.

SOFTWARE DEVELOPMENT EXPERIENCE

Currently active professional software development partnerships have been established between Pinter Consulting Services, Inc. (PCS) and the following companies: AMPL LLC, GAMS Development Corporation, Lahey Computer Systems, Maplesoft, Maximal Software, Paragon Decision Technologies, TOMLAB Optimization, Wolfram Research, and others. Our proprietary optimization software products include the following (listed in the order of release):

- LGO solver system for global and local nonlinear optimization, for use with C/C++/FORTRAN and (upon request) with other compilers; distributed by PCS
- LGO solver system (as above) with a Windows GUI; distributed by PCS
- GAMS/LGO, in cooperation with the GAMS Development Corporation
- MathOptimizer for Mathematica, in cooperation with Frank Kampas, Ph.D.; distributed by PCS and by Wolfram Research
- MathOptimizer Professional (Mathematica/LGO) for Mathematica, with Frank Kampas, Ph.D.; 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, Ph.D. and Barış Cem Şal, M.Sc.; distributed by PCS
- MATLAB/LGO, a direct solver link to MATLAB, developed in cooperation with Frank Kampas, Ph.D. and Barış Cem Şal, M.Sc.; distributed by PCS

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

EDUCATIONAL, RESEARCH, AND REAL-WORLD PROFESSIONAL IMPACT

In numerous cases, M.Sc. and Ph.D. 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 the field of applied optimization. Related research work has been conducted by researchers, practitioners and students, e.g., in 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 (scholarly citations by other researchers in peer reviewed international journals and technical documents) to my work and publications is in the order of thousands. An illustrative collection of topical research articles with such citations, and peer reviews of my books and software is available upon request.

The software products developed by PCS – in cooperation with partners as listed earlier – are used worldwide at hundreds of academic, business, government, and research organizations, including a range of significant industrial applications.

SELECTED FURTHER PROFESSIONAL ACTIVITIES AND ACHIEVEMENTS

- Author and editor of several books; please see <http://www.pinterconsulting.com/b.html> and the Publications section of this document
- Author and co-author of over 200 book chapters, articles, proceedings volume contributions, and technical reports. A selected and categorized listing is provided later in this document
- Editorial Board member, *Journal of Global Optimization* (since 1991)
- Editorial Board member, *GAMS Global World and GAMS Performance World* web-forums (since 2002)
- Editorial board member: *Journal of Applied Mathematics & Decision Sciences* (now published as *Advances in Decision Sciences*, from 2003 to 2011)
- Editorial board member: *Algorithmic Operations Research* (from 2004 to 2011)
- Editorial board member: *International Journal of Modeling, Identification and Control* (from 2005 to 2009)
- Author, contributing author, referee, editor, technical editor, and reviewer of books. The list of publishers that I have been working with includes CRC Press / Taylor and Francis, Duxbury / Thomson, Elsevier, Kluwer Academic Publishers, McGraw-Hill, Pergamon Press, Springer Science + Business Media, Wiley, World Scientific
- Author and reviewer contributing to more than 30 professional journals since 1975
- Invited lecturer, workshop or course presenter, visiting scholar, conference and meeting participant at universities, research institutions, industrial organizations, and conferences in over 40 countries of Europe and the Middle East, the Americas, Asia and the Pacific Region: an illustrative list of lectures is presented later on in this document
- Operations Research Committee member, Hungarian Academy of Sciences, 1983–1993

- Project leader, Scientific Research Fund, Hungarian Academy of Sciences, 1990–1994
- Canadian International Development Agency (CIDA) Project Lecturer, Beijing University, China, 1993
- CIDA Project advisor and lecturer, Environmental Studies Centers Development Project, Indonesia, 1994-1995
- Winner of the 2000 INFORMS Computing Society Prize
- CORS Traveling Speaker since 2002
- INFORMS Traveling Speaker since 2003
- Global Optimization Vice-Chair, INFORMS Optimization Society, 2002-2004
- EUROPT Managing Board Member since 2010
- EUROPT Managing Board Chairman since 2012
- Operations Research Panel reviewer, National Science Foundation, USA (on demand)
- Project advisor and consultant to government and private organizations (on demand)
- Advisory Board member, SpringerBriefs on Optimization, Springer Science + Business Media, since 2012

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Past and present society memberships include the following:

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

SELECTED PROFESSIONAL AWARDS AND GRANTS

- United Nations Development Program Fellowship, USA, 1976
- Ph.D. program fellowship 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
- Visiting Research Fellow, Central Queensland University, Australia, 2001
- Visiting Research Fellow, University of Ballarat, Australia, 2002, 2003, 2004
- Visiting Associate Professor, Bilkent University, Turkey, 2008-2009
- Visiting Professor, Özyeğin University, Turkey, 2009-2011
- Industrial R&D grants for scientific research, algorithm and professional software product development, National Research Council of Canada, 1999, 2002, and 2012
- Numerous other visiting grants (lecture, workshop, course invitations) received from about 40 countries of the world

The total monetary value of awards, fellowships, grants, and visiting positions is in the 5- to 6-digit range (expressed in USD / CAD). The total value of revenues received directly by myself or by my company (PCS) is in the same range since 1994, as a result of consulting work, software sales and other royalties and honoraria. Further details and professional references are available upon request. A business confidential client list is also available for inspection.

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)

Published 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*. Lionheart Publishing, Atlanta, GA, 2001.
4. *Global Optimization with Maple: An Introduction with Illustrative Examples*. An electronic book published by Pintér Consulting Services, and by Maplesoft, Canada, 2006.

Forthcoming Books

1. *Global Optimization in Practice*. Springer Science + Business Media, New York.
2. *Optimization with Maple for Engineers and Scientists*. CRC Press / Taylor and Francis, Boca Raton, FL.
3. *Optimization with Mathematica: Scientific, Engineering, and Economic Applications*. Co-author: Frank J. Kampas. Springer Science + Business Media, New York.

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.
3. *Modeling and Optimization in Space Engineering*. Springer Science + Business Media, New York, 2012. Co-editor: Giorgio Fasano.

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, Providence, RI, 2009.
20. Model development and optimization for space engineering. In: Fasano, G. and Pintér, J.D., eds., *Modeling and Optimization in Space Engineering*. Springer Science + Business Media, New York, 2012. Co-author: Fasano, G.
21. Global optimization approaches to sensor placement: Model versions and illustrative results. In: Fasano, G. and Pintér, J.D., eds., *Modeling and Optimization in Space Engineering*. Springer Science and Business Media, New York, 2012. Co-author: Fasano, G.

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.
22. Optimization of regional water quality monitoring strategies. *Water Science and Technology* 19 (1987) 721-727. Co-author: Somlyódy, L.
23. A conceptual optimization framework for regional acidification control. *Systems Analysis, Modelling and Simulation* 4 (1987) 213-226.
24. Branch-and-bound algorithms for solving global optimization problems with Lipschitzian structure. *Optimization* 19 (1988) 101-110.
25. Deterministic approximations of probability inequalities. *ZOR – Methods and Models of Operations Research*, Series Theory 33 (1989) 219-239.
26. Optimization in risk management. *Civil Engineering Systems* 6 (1989) 122-128. Co-author: Cooke, R.
27. Environmental risk analysis and management. *Hidrológiai Közlöny* 69 (1989) 264-268. (In Hungarian)
28. Solving nonlinear equation systems via global partition and search: Some experimental results. *Computing* 43 (1990) 309-323.
29. On the convergence of adaptive partition algorithms in global optimization. *Optimization* 21 (1990) 231-235.
30. Risk management of accidental water pollution: An illustrative application. *Water Science and Technology* 22 (1990) 265-274. Co-authors: Benedek, P. and Darázs, A.
31. Globally optimized calibration of environmental models. *Annals of Operations Research* 25 (1990) 211-222.
32. Adaptive partition strategies for solving global optimization problems. *Alkalmazott Matematikai Lapok* 15 (1990/1991) 329-352. (In Hungarian)
33. Stochastic modelling and optimization for environmental management. *Annals of Operations Research* 31 (1991) 527-544.
34. Global convergence revisited: Reply to A. Zilinskas. *Computing* 46 (1991) 87-91.
35. Set partition by globally optimized cluster seed points. *European Journal of Operational Research* 51 (1991) 127-135. Co-author: Pesti, G.
36. An application of Lipschitzian global optimization to product design. *Journal of Global Optimization* 1 (1991) 389-401. Co-author: Hendrix, E.M.T.
37. Convergence qualification of partition algorithms in global optimization. (Revised and extended version.) *Mathematical Programming* 56 (1992) 343-360.
38. 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.
39. 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.
40. 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.
41. 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.
42. Continuous and Lipschitz global optimization: Algorithms and applications. *Sigma* XXVII (1996) 3, 71-104. (In Hungarian)
43. 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.
44. Automatic model calibration applying global optimization techniques. *Environmental Modeling and Assessment* 3 (1998) 117-126. Co-authors: Finley, J.R. and Satish, M.G.

45. Globally optimized spherical point arrangements: Model variants and illustrative results. *Annals of Operations Research* 104 (2001) 213-230.
46. 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.
47. 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., Lyyra-Laitinen, T., and Lahtinen, T.
48. A global optimization approach to laser design. *Optimization and Engineering* 4 (2003) (3) 177-196. Co-authors: Isenor, G. and Cada, M.
49. Globally optimized calibration of nonlinear models: techniques, software, and applications. *Optimization Methods and Software* 18 (2003) (3) 335-355.
50. 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.
51. Nonlinear optimization in Mathematica with MathOptimizer Professional. *Mathematica in Education and Research* 10 (2005) 2, 1-18. Co-author: Kampas, F.J.
52. Configuration analysis and design by using optimization tools in Mathematica. *The Mathematica Journal* 10 (2006) 1, 128-154. Co-author: Kampas, F.J.
53. Global Optimization Toolbox for Maple: An introduction with illustrative applications. *Optimization Methods and Software* 21 (2006) 565-582. Co-authors: Linder, D. and Chin, P.
54. Nonlinear optimization with GAMS/LGO. *Journal of Global Optimization* 38 (2007) 79-101.
55. 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.
56. Integrated software tools for the OR/MS classroom. *Algorithmic Operations Research* 3 (2008) 82-91. Co-authors: Castillo, I. and Lee, T.
57. Solving circle packing problems by global optimization: numerical results and industrial applications. *European Journal of Operational Research* 191 (2008) 786-802. Co-authors: Castillo, I. and Kampas, F.J.
58. Model development and optimization in interactive computing environments. *Central European Journal of Operations Research* 16 (2008) 165-178.
59. A global optimization study on the devolatilisation kinetics of coal, biomass and waste fuels. *Fuel Processing Technology* 90 (2009) 762-769. Co-authors: Pantoleontos, G., Basinas, P., Skodras, G., Grammelis, P. Topis, S., Sakellariopoulos, G.P.
60. A computational geometric / information theoretic method to invert physics-based MEC model attributes for MEC discrimination. *Mathematical Machines and Systems* (2011) No 2, pp. 50-61. (*Mathematical Machines and Systems* is published by the National Academy of Sciences of Ukraine.) Co-authors: Deschaine, L.M. and Nordin, P.
61. Benchmarking nonlinear optimization software in technical computing environments: Global optimization in Mathematica with MathOptimizer Professional. *TOP* (An official journal of the Spanish Society of Statistics and Operations Research). (To appear) Published online August 2011; DOI 10.1007/s11750-011-0209-5. Co-author: Kampas, F.J.
62. Calibrating artificial neural networks by global optimization. *Expert Systems with Applications* 39 (2012) 25-32.
63. Development and calibration of currency market strategies by global optimization. *Journal of Global Optimization* (To appear). Published online February 2012: DOI 10.1007/s10898-012-9879-2. Co-author: Çağlayan, M.O.

64. Integrated experimental design and nonlinear optimization to handle computationally expensive models under resource constraints. *Journal of Global Optimization* (To appear). Published online March 2012: DOI 10.1007/s10898-012-9882-7. Co-author: Horváth, Z.
65. *MathOptimizer*: A nonlinear optimization package for *Mathematica* users. Co-author: Kampas, F.J. (Submitted for publication)
66. Decision support for complex planning challenges: Combining expert systems, machine learning, information theory, physical modelling, and optimization. Co-authors: Deschaine, L.M., Nordin, P. (Submitted for publication)
67. Groundwater restoration design optimization using physics-based flow, transport, and optimization technologies. Co-authors: Deschaine, L.M., Lillys, T.P. (Submitted for publication)

Contributions to Conference Proceedings (Partial List)

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.
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18. Optimization models in water quality control. In: Beck, M.B., ed. *Systems Analysis in Water Quality Management (Proc. WATERMATEX 87, London, 1987)* pp. 201–210. Pergamon Press, Oxford, 1987. Co-author: Somlyódy, L.
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22. Aquifer model calibration applying global optimization. *Proc. 3rd IASTED Conf. Reliability, Control and Risk Assessment* (Washington, D.C., Oct. 1994.) Co-authors: Finley, J.R. and Satish, M.G.
23. Optimal load distribution. In: *Advances in Military Load Carriage. Proc. TTCP-TLG-8 and TCIEM Workshop* (Queen’s University, Kingston, Ontario, October 1996), pp. 26-27. Co-author: Pelot, R.P.
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25. An application development system for global optimization. Invited tutorial presentation. Extended abstract in: *Proc. IASTED Conf. MIC’98* (Grindelwald, Switzerland, February 18-20, 1998.)
26. Computational global optimization: Models, algorithms and applications. Invited tutorial presentation. In: Mohammadian, M., ed. *Concurrent Systems Engineering Series 55 (Proc. CIMCA’99, Vienna, Febr. 17-19, 1999)*; pp. 1-10. IOS Press, Amsterdam, 1999.
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28. MathOptimizer Professional. *Proceedings of the 2003 Wolfram Technology Conference*, <http://library.wolfram.com/infocenter/Conferences/4905/>. Co-author: Kampas, F.J.
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32. Global optimization in Mathematica: a comparative numerical study. *Proceedings of the 2005 Wolfram Technology Conference* <http://library.wolfram.com/infocenter/Conferences/5824/> Co-author: Kampas, F.J.
33. MathOptimizer Professional: New Features and Applications. *Proceedings of the 2006 Wolfram Technology Conference* <http://library.wolfram.com/infocenter/Conferences/6471/>. Co-author: Kampas, F.J.
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3. A unified approach to globally convergent one-dimensional optimization algorithms. *Research Report 83-5, Institute for Applied Mathematics and Informatics*, Milano, 1983.
4. Selecting oil exploration strategies: Some stochastic programming formulations and solution methods. *Research Report CMI 852611-1, Christian Michelsen Institute*, Fantoft, Bergen, Norway, 1985. Co-author: Flåm, S.D.
5. Deterministic approximations of probability inequalities. *Research Report 87-43, Faculty of Mathematics and Informatics, Delft University of Technology*, Delft, 1987.
6. Multiextremal optimization via adaptive partition algorithms. *Research Report 87-44, Faculty of Mathematics and Informatics, Delft University of Technology*, Delft, 1987.
7. Mathematical programming in risk management. *Research Report 87-50, Faculty of Mathematics and Informatics, Delft University of Technology*, Delft, 1987. Co-author: Cooke, R.
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10. *Deterministic and Stochastic Methods for Solving Multiextremal Optimization Problems. Lecture Notes, Faculty of Mathematics and Informatics, Delft University of Technology*, Delft, 1987.

11. River basin water quality management: A stochastic approach. An application to the River Zala, Hungary. *Research Report, Agricultural University of Wageningen, and Water Resources Research Centre, Budapest, 1988.* Co-authors: Boon, J.G. and Somlyódy, L.
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13. Lipschitzian global optimization: Theory and applications. *Research Report 90.020, National Institute for Inland Water Management and Waste Water Treatment, Lelystad.*
14. Model calibration: Problem statement, solution method and implementation manual. *Research Report 90.024, National Institute for Inland Water Management and Waste Water Treatment, Lelystad, 1990.*
15. Stochastic decision models for risk analysis and management: A brief methodological overview. *Research Report 90.068, National Institute for Inland Water Management and Waste Water Treatment, Lelystad, 1990.*
16. Simplicial partition strategies for Lipschitzian global optimization. *Working Paper, National Institute for Inland Water Management and Waste Water Treatment, Lelystad, 1991.*
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18. Calibration of the model system DELWAQ-IMPACT for the lake Ketelmeer. *Research Report 91.001, National Institute for Inland Water Management and Waste Water Treatment, Lelystad, 1991.* Co-authors: ten Hulscher, D. and Bak-Eijsberg, C.
19. Groundwater quality assessment and management: A stochastic modelling approach. *Research Report 91.009, National Institute for Inland Water Management and Waste Water Treatment, Lelystad, 1991.* Co-author: De Lange, W.J.
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21. Groundwater quality assessment and management: Illustrative numerical results. *Research Report 91.031, National Institute for Inland Water Management and Waste Water Treatment, Lelystad, 1991.* Co-author: De Lange, W.J.
22. Calibration under different problem specifications: Application to the model SED. *Research Report 91.049, National Institute for Inland Water Management and Waste Water Treatment, Lelystad, 1991.* Co-author: van der Molen, D.T.
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26. Combining negotiated expert opinions: A global optimization approach. *Working Paper, Department of Industrial Engineering, Technical University of Nova Scotia, Halifax, 1994.* Co-author: Cooke, R.
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 41. An optimization-based approach to the multiple static delivery technique in radiation therapy. *Research Report A/1999/4, Department of Computer Science and Applied Mathematics, University of Kuopio, Finland*. Co-authors: Tervo, J., Kolmonen, P., Lyyra-Laitinen, T., and Lahtinen, T.
 42. LGO Global Solver Engine for Excel – Premium Solver Platform Implementation. User Guide. Frontline Systems, Incline Village, NV, and Pintér Consulting Services, Halifax, NS, 2001.
 43. MathOptimizer – An Advanced Modeling and Optimization System for Mathematica Users. User Guide. (80 pages) Pintér Consulting Services, Inc., Halifax, NS, 2002.
 44. The potentials of Mathematica in Operations Research and related applications. *Mathematica Information Center* <http://library.wolfram.com/infocenter/Articles/4896/>, 2003.
 45. GAMS/LGO Solver Engine: User Guide. GAMS Solver Documentation Pages <http://www.gams.com/solvers/lgo.pdf>, 2003.
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47. GAMS/LGO nonlinear solver suite: key features, usage, and numerical performance. *GAMS Solver Documentation Pages* <http://www.gams.com/solvers/solvers.htm#LGO>, 2003.
48. TOMLAB/LGO User Guide. TOMLAB Solver Documentation Pages http://tomlab.biz/docs/TOMLAB_LGO.pdf, 2004. Co-authors: Holmström, K., Goran, A.O. and Edvall, M.M.
49. CIAO-GO: A Model Development and Solver System for Global and Local Nonlinear Optimization. User Guide. *Research Report, CIAO-ITMS, University of Ballarat*, 2004. Co-authors: Bagirov, A.M. and Rubinov, A.M.
50. An illustrated collection of global optimization test problems. *Research Report, CIAO-ITMS, University of Ballarat*, 2004. Co-authors: Bagirov, A.M. and Zhang, J.
51. The Maple Global Optimization Toolbox. A white paper and detailed application examples downloadable from Maplesoft's Product Pages; with further links. <http://www.maplesoft.com/products/toolboxes/globaloptimization/index.aspx>.
52. Nonlinear systems modeling and optimization: software implementations and applications. *Modeling and Simulation* 3 (2004) 2, 17-18.
53. MathOptimizer Professional, <http://library.wolfram.com/infocenter/TechNotes/5995/>, 2004. Co-author: Kampas, F.J.
54. Getting Started with MathOptimizer Professional, <http://library.wolfram.com/infocenter/TechNotes/6201/>, 2004. Co-author: Kampas, F.J.
55. Packing Equal-Size Circles in a Triangle, <http://library.wolfram.com/infocenter/TechNotes/6202/>, 2005. Co-author: Kampas, F.J.
56. AIMMS/LGO Solver Engine: A Brief Introduction and User's Guide. <http://www.aimms.com/aimms/product/solvers/lgo.html>, 2005.
57. Mathematical Programming Glossary Supplement: Global Optimization, 2005. <http://glossary.computing.society.informs.org/second.php?page=GlobalOptimization.html>.
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61. Enhancement of optimization capability in TacTool using the Lipschitz Global Optimizer (LGO) program. *Technical Report, DRDC Atlantic Region, Dartmouth, NS*, 2006. Co-authors: Gammon, M.A. and Schwartz, R.
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.
63. Computational global optimization: State-of-the-art and perspectives. *ORMS Today* (2007) October issue.
64. Combining population based search with nonlinear optimization to assist decision making in presence of multiple objectives. Technical Memorandum, Defence R&D Canada - Atlantic Region, December 2010. Co-author: Mark A. Gammon.
65. RSS+LGO – A regularly spaced sampling method for experimental design integrated with the LGO solver suite for nonlinear optimization. *Project Report, TÁMOP 4.2.2-08/01-2008-0021 Project, Széchenyi István University, Győr, Hungary*, June 2011.
66. LGO – A Model Development and Solver System for Global-local Nonlinear Optimization. User's Guide. Current revised edition: December 2012. Pintér Consulting Services, Inc., Canada. www.pinterconsulting.com.

Invited Book and Software Reviews

1. *Mathematical Programming Glossary on the World Wide Web*, by Greenberg, H.J. *Optima* 53 (1997) 9-10.
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 Operational Research* 177 (2007) 646-648.

SELECTED PRESENTATIONS AND COURSES TAUGHT

JÁNOS D. PINTÉR

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. Web Seminars for Maplesoft (about 10 presentations since 2004)
4. Global Optimization Workshop, Australian Institute for Operational Research, Melbourne, Vic., Australia, July 2001
5. Global Optimization Software, CORS Speaker, MOPTA 2002, McMaster University, Hamilton, ON, Canada, August 2002
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 sponsored by Maplesoft, in Aachen, Germany; Stuttgart, Germany; and Zurich, Switzerland; 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 Conference, 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. Global Optimization Workshop, Shell International Exploration and Production, Rijswijk, The Netherlands, April 11-15, 2005
23. Maplesoft Annual Conference, Waterloo, ON, Canada, July 17-21, 2005; invited speaker
24. Conference on Complementarity, Duality, and Global Optimization in Science and Engineering, Virginia Tech, Blacksburg, VA, USA, August 15-17, 2005; semi-plenary presentation
25. Applied Nonlinear Optimization Workshop, DRDC, Dartmouth, NS, Canada, October 12-14, 2005
26. Applied Nonlinear Optimization Lecture Series, University of Girona, Spain, April 24-28, 2006

27. 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 several other presentations
28. Global Optimization: Software Development and Advanced Applications, Fields Institute, Toronto, ON, Canada, October 3, 2006; invited presentation
29. Optimization with Maple, Atlantic Optimization Days, Fredericton, NB, Canada, October 5-6, 2006; invited presentation
30. INFORMS Annual Meeting, Pittsburgh, PA, USA, November 5-8, 2006; invited presentation in the "*Great Unsolved Problems in OR*" session series, and several other lectures
31. Global Optimization Course: Models, Algorithms, Software, and Applications, University of Jyväskylä, Finland, March 12-16, 2007
32. Tekes-MASI Global Optimization Workshop, Helsinki School of Economics, Finland, March 19-20, 2007
33. Global Optimization Workshop, Shell International Exploration and Production, Rijswijk, The Netherlands, March 22-23, 2007
34. Global Optimization Course: Models, Algorithms, Software, and Applications, Széchenyi University, Győr, Hungary, March 26-28, 2007
35. 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
36. Workshop on Global Optimization: Methods and Applications, Fields Institute, Toronto, ON, Canada, May 11-12, 2007; invited presentation
37. Nonlinear (Global and Local) Optimization in Integrated Computing Systems, CORS National Meeting, London, ON, Canada, May 13-16, 2007; invited tutorial and other talks
38. Modeling and Optimizing Nonlinear Systems in Integrated Computing Environments, INFORMS International Meeting, Rio Grande, Puerto Rico, July 8-11, 2007; invited tutorial
39. ICCOPT II & MOPTA-07, McMaster University, Hamilton, ON, Canada, August 13-16, 2007; invited CORS Speaker, lectures on continuous and mixed integer optimization
40. Computational Global Optimization, 2007 INFORMS Annual Meeting, Seattle, WA, USA; invited tutorial
41. Global Optimization in Nonlinear Systems: Algorithms, Software, and Applications, invited plenary lecture, International Conference on Modelling, Identification and Control, Shanghai, China, June 29-July 2, 2008
42. Global Optimization, invited plenary lecture, SINTEF Workshop, Geilo, Norway, January 11-16, 2009
43. Computational Global Optimization, invited plenary tutorial, 14th International Congress on Computational and Applied Mathematics, Antalya, Turkey, September 29 - October 2, 2009
44. Global Optimization Intensive Course for MSc students, University of Edinburgh, Scotland, March 15-19, 2010
45. Nonlinear Optimization, invited plenary tutorial, 1st International Symposium on Computing in Science & Engineering (ISCSE 2010), Izmir, Kusadasi, Turkey, June 3-5, 2010
46. Global Optimization Intensive Course for engineers and scientists, HGL, Reston, VA, USA, August 30-September 3, 2010
47. A Review of Global Optimization Applications, invited plenary lecture, Conference on Numerical Optimization and Applications in Engineering, CRM, Barcelona, Spain, October 13-15, 2010
48. Global Optimization Intensive Course for scientists, ESRF, Grenoble, France, January 31-February 1, 2011

49. Nonlinear Modeling and Optimization with *Mathematica*, Invited presentation, Sabanci University, Istanbul, Turkey, March 2, 2011
50. Global Optimization: State-of-the-Art and Selected Applications, Invited presentation, *Conference on Challenges in Statistics and Operations Research (CSOR2011)*, Kuwait City, Kuwait, March 8-10, 2011
51. Nonlinear Modeling and Optimization with *Mathematica*, Invited presentation, Kadir Has University, Istanbul, Turkey, March 25, 2011
52. Nonlinear Optimization in Technical Computing Systems, Invited presentation, Yeditepe University, Istanbul, Turkey, April 27, 2011
53. Nonlinear Optimization in Technical Computing Systems, Invited presentation, Technical University of Turin, September 6, 2012
54. Nonlinear Optimization in Technical Computing Systems, Invited presentation, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia, October 15, 2012
55. Global Optimization: A Review of the State-of-the-Art, Invited presentation, University of Lancaster, United Kingdom, May 2013
56. Global Optimization Software and Illustrative Applications, Invited presentation, University of Southampton, United Kingdom, May 2013
57. Nonlinear Optimization Course, Széchenyi University, Győr, Hungary, May 2013