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## CURRICULUM VITAE

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### CURRENT POSITIONS

- **Distinguished Professor, Head of Numerical Calculus Laboratory**, DIMES, University of Calabria, Rende (CS), Italy ([Professorship awarded by the Italian Government](#))
  - **Member of the University International Council, Professor** (part-time contract), Mathematical Software Department, Lobachevsky Nizhni Novgorod State University, Nizhni Novgorod, Russia
  - **Affiliated Faculty**, Center for Applied Optimization, University of Florida, Gainesville, FL, USA
  - **Affiliated Researcher**, Institute of High Performance Computing and Networking (ICAR - Istituto di Calcolo e Reti ad Alte Prestazioni), Rende (CS), Italy
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### SCIENTIFIC INTERESTS

Global optimization ([President](#), International Society of Global Optimization), Infinity computing and calculus, numerical analysis, set theory, number theory, fractals (including, in particular, space-filling curves), parallel computing, interval analysis, game theory

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### AWARDS and DISTINCTIONS

1. Khwarizmi International Award, Iran, 2017
2. Pythagoras International Prize in Mathematics (Premio Internazionale Pitagora per la Matematica), Italy, 2010
3. Outstanding reviewer for the international journal "Expert Systems With Applications", Elsevier, 2018
4. Honored Worker of the Educational Sphere of the Russian Federation, the Ministry of Education and Science of the Russian Federation, 2017
5. Management Lecture, Department of Management, Ca' Foscari University, Venice, Italy, 2017
6. EUROPT Fellow, 2016
7. Outstanding reviewer for the international journal "Applied Mathematics and Computation", Elsevier, 2016
8. Honorary Fellowship, the highest distinction of the European Society of Computational Methods in Sciences, Engineering and Technology, 2015
9. The Journal of Global Optimization Best Paper Award for the article R. Paulavicius, Ya.D. Sergeyev, D.E. Kvasov, J. Zilinskas, Globally-biased DISIMPL algorithm for expensive global optimization, Journal of Global Optimization, 2014, volume 59, pages 545-567.
10. Achievement Award from the World Congress in Computer Science, Computer Engineering, and Applied Computing, USA, 2015
11. In the annual national competition "University Book" in Russia in the nomination "The best translation" the winner is the book G. Lolli, "Filosofia della matematica: L'eredità del Novecento" translated in Russian from Italian by A.L. Sochkov and S.M. Antakov under the scientific supervision of Ya.D. Sergeyev, 2015
12. Letter of Commendation from The Ministry of Education and Science of the Russian Federation, 2014
13. Degree of Honorary Doctor, Glushkov Institute of Cybernetics of The National Academy of Sciences of Ukraine, Kiev, 2013
14. Laureate of Applied Development and Research Competition in the field of Computer Technology "Computing Continuum: from Idea to Implementation" for the project "High accuracy computations on the Infinity Computer", Intel Corporation and "Skolkovo" Innovation Center Development Fund, Russia, 2012
15. Outstanding Achievement Award from the 2010 World Congress in Computer Science, Computer Engineering, and Applied Computing, USA, 2010
16. Lagrange Lecture, Turin University, 2010

17. Honorary plate from the Engineering Faculty of the Dokuz Eylül University, Izmir, Turkey, 2009
18. MAIK "Nauka/Interperiodica" Prize for the best scientific monograph published in 2008 awarded for the book Sergeyev Ya.D., Kvasov D.E. Diagonal global optimization methods, Fizmatlit, Moscow, 352 pp., (in Russian). The prize is awarded by the Russian Academy of Sciences and Pleiades Publishing, Inc. (USA)
19. Award of the Russian Foundation of Basic Research for the popular scientific article "Global optimization and the Lipschitz condition" co-authored with D.E. Kvasov, 2008
20. Keynote address and honorary plaque at the general plenary session of the world multi-conference WMSCI 2008, Orlando, Florida, 2008
21. Distinguished Full Professorship awarded by the Italian Government, 2002
22. Medal of the National Russian Exhibition awarded for the best didactic software, 1993
23. Second Prize at the USSR annual competition in developing didactic software, 1990
24. Third Prize at the USSR annual competition in developing didactic software, 1989
25. Gold Medal, for the excellent graduation from the Specialized Physical and Mathematical Lyceum, Gorky, USSR, 1980

## LIST of PAPERS

List of papers includes 268 items: 6 books, 101 papers in international journals, 79 refereed chapters of books, papers in books and proceedings of international conferences, 23 refereed articles in national journals and proceedings of national conferences, 10 refereed didactic papers, 45 technical reports, 4 patents.

## FORMATION and DEGREES

1996	Doctor of Sciences (Habilitation for the Full Professorship) from Lomonosov State University, Moscow, Russia
1990	Doctor of Philosophy in Applied Mathematics, Gorky State University, Gorky, USSR
1980 - 1985	Student of the Faculty of Computing Mathematics and Cybernetics, Gorky State University, Gorky, USSR
1978 - 1980	Specialized Physical and Mathematical Lyceum, Gorky, USSR

## ACTIVITIES for JOURNALS

### Editorial Boards

2016 - ...	Member of the Editorial Board of the <i>International Journal of Unconventional Computing</i> , Old City Publishing
2014 - ...	Member of the Editorial Board of the international journal <i>Applied Mathematics and Computation</i> , Elsevier
2010 - ...	Member of the Editorial Board of the international journal <i>Numerical Algebra, Control and Optimization</i> , published by the American Institute of Mathematical Sciences
2008 - ...	Member of the Editorial Board of the international <i>Journal of Global Optimization</i> , Springer
2008 - ...	Member of the Editorial Board of the international journal <i>Annali dell'Universita' di Ferrara, Sezione VII - Scienze Matematiche</i> , Springer
2007 - ...	Member of the Editorial Board of the international journal <i>Optimization Letters</i> , Springer
1999 - 2006	Member of the Editorial Board of <i>Mathematical Modelling and Optimal Control: Bulletin of the Nizhni Novgorod State University</i> , Nizhni Novgorod University Press

### Special issues

2018	Managing Guest-Editor (with R. De Leone and A.A. Zhigljavsky Guest-Editors) of the special issue of the <i>Journal of Global Optimization</i> , Volume 71(1), 2018 dedicated to the 2 <sup>nd</sup> International Conference "Numerical Computations: Theory and Algorithms", Pizzo Calabro, Italy, 2016
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2018	Managing Guest-Editor (with L. Brugnano and D.E. Kvasov Guest-Editors) of the special issue of the journal <i>Applied Mathematics and Computation</i> , Volume 318 (2018) dedicated to the 2 <sup>nd</sup> International Conference “Numerical Computations: Theory and Algorithms”, Pizzo Calabro, Italy, 2016
2016	Guest-Editor of the special issue “ <i>Recent developments in non-linear and global optimization</i> ”, <i>Optimization Letters</i> , 10(2), 2016
2015	Managing Guest-Editor (with R. De Leone and D.E. Kvasov Guest-Editors) of the special issue of the journal <i>Applied Mathematics and Computation</i> , Volume 255 (2015) dedicated to the International Conference “Numerical Computations: Theory and Algorithms”, Falerna, Italy, 2013
2015	Managing Guest-Editor (with L. Brugnano and A.A. Zhigljavsky Guest-Editors) of the special issue of the journal <i>Communications in Nonlinear Science and Numerical Simulation</i> , 21(1-3), 2015 dedicated to the International Conference “Numerical Computations: Theory and Algorithms”, Falerna, Italy, 2013
2012	Managing Guest-Editor (with R. De Leone and A.A. Zhigljavsky Guest-Editors) of the special issue dedicated to the international workshop "Infinite and Infinitesimal in Mathematics, Computing and Natural Sciences", Cetraro, Italy, May 17–21, 2010, journal <i>Applied Mathematics and Computation</i> , 218(16), 2012
2010	Guest-Editor, together with P.M. Pardalos of the special issue celebrating the 70th birthday of Roman G. Strongin, <i>Journal of Global Optimization</i> , 2010, 48(1)
2005	Guest-Editor, together with R. Fletcher, V. Ruggiero, and R.G. Strongin, of the special issue dedicated to the INdAM scientific meeting “Numerical Methods for Local and Global Optimization: Sequential and Parallel Algorithms”, Cortona, Italy, July 14-20, 2003, <i>Optimization Methods and Software</i> , 2005, 20(4)

## Reviewer

1991 - ...	Reviewer for the following international journals: <i>Algorithms</i> , <i>Applied Mathematics and Computation</i> , <i>Applied Mathematics &amp; Information Sciences</i> , <i>Applied Numerical Mathematics</i> , <i>Automation and Remote Control</i> , <i>Applied Soft Computing</i> , <i>Central European Journal of Operations Research</i> , <i>Chemical Engineering Science</i> , <i>Communications in Nonlinear Science and Numerical Simulation</i> , <i>Computational Intelligence and Neuroscience</i> , <i>Computational Mathematics and Mathematical Physics</i> , <i>Computational Optimization and Applications</i> , <i>Computer Physics Communications</i> , <i>Computers &amp; Operations Research</i> , <i>Discrete Dynamics in Nature and Society</i> , <i>Entropy</i> , <i>EURO Journal on Computational Optimization</i> , <i>European Journal of Operational Research</i> , <i>Expert Systems with Applications</i> , <i>INFORMS Journal on Computing</i> , <i>Journal of Computational and Applied Mathematics</i> , <i>Journal of Computational Science</i> , <i>Journal of Global Optimization</i> , <i>Journal of Mathematical Analysis and Applications</i> , <i>Journal of Number Theory</i> , <i>Journal of Numerical Analysis</i> , <i>Industrial and Applied Mathematics</i> , <i>Journal of Optimization Theory and Applications</i> , <i>Machine Learning and Knowledge Extraction</i> , <i>Mathematical Biosciences</i> , <i>Mathematical Problems in Engineering</i> , <i>Mathematical Programming</i> , <i>NATURE Scientific Reports</i> , <i>Numerical Algorithms</i> , <i>Optimization</i> , <i>Optimization Letters</i> , <i>Optimization Methods and Software</i> , <i>p-Adic Numbers</i> , <i>Ultrametric Analysis and Applications</i> , <i>SIAM Journal on Matrix Analysis and Applications</i> , <i>SIAM Journal on Optimization</i> , <i>Technological and Economic Development of Economy</i> , <i>Vietnam Journal of Mathematics</i>
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## EXPERIENCE and JOB HISTORY

2017 - ...	President, International Society of Global Optimization
2017, 2019	Member of the Constantin Caratheodory Prize Committee
2018	External member of a Ph.D. commission at the University of Modena and Reggio Emilia
2017	Member of the national commission for appellations regarding habilitation for Professor positions at Italian universities
2017	External member of a Ph.D. commission at the University of Metz (France)
2016 - 2017	Vice-President, the International Society of Global Optimization
2016	External member of Ph.D. commissions at Anna University (India) and Nanyang Technological University (Singapore)

2008 - ...	Member of the Advisory Board of the Centre for Optimisation and Its Applications, School of Mathematics at Cardiff University, UK
1994 - ...	Coordinator of the international program “Italian-Russian University” executed by the University of Calabria and Lobachevski Nizhni Novgorod State University
2002 - ...	Distinguished Professor (Professorship awarded by the Italian Government), University of Calabria, Rende (CS), Italy
1997 - 2002	Professor, Lobachevski Nizhni Novgorod State University, Nizhni Novgorod, Russia
1994 - 2002	Researcher, member of the scientific council, Institute of Systems Analysis and Information Technology, Rende-Cosenza, Italy
1992 - 2001	Visiting lecturer, University of Calabria, Rende-Cosenza, Italy
1991 - 1992	Visiting scientist, Consorzio per la Ricerca e le Applicazioni di Informatica, Italy
1990 - 1991	Visiting scientist, Systems Department, University of Calabria, Rende-Cosenza, Italy, supported by a grant from the Italian Ministry of International Affairs
1990 - 1996	Associate Professor, Faculty of Computing Mathematics and Cybernetics, Nizhni Novgorod State University, Nizhni Novgorod, Russia
1986 - 1990	Assistant Professor, Faculty of Computing Mathematics and Cybernetics, Gorky State University, Gorky, USSR
1986 - 1993	Leader of the ANALYTIC Research Group developing software for high and secondary school.
1985 - 1986	Researcher, Faculty of Computing Mathematics and Cybernetics, Gorky State University, USSR

## PLENARY LECTURES and TUTORIALS

1. plenary lecture, the 7th International Conference on Optimization and Control with Applications, Malacca, Malaysia, August 1–4, 2018
2. plenary lecture, Learning and Intelligent Optimization LION-12, Kalamata, Greece, June 10-15, 2018
3. plenary lecture, the 2<sup>nd</sup> International Conference on Mathematical Methods & Computational Techniques in Science & Engineering, University of Cambridge, UK, February 16-18, 2018
4. plenary lecture, the 9th International Workshop “Data Analysis Methods for Software Systems”, Druskininkai, Lithuania, November 30 – December 2, 2017
5. plenary lecture, the 15th International Conference of Numerical Analysis and Applied Mathematics ICNAAM 2015, Thessaloniki, Greece, September 25-30, 2017
6. plenary lecture, International Conference and School “High-Performance Computing, Optimization and Applications”, Nizhni Novgorod, Russia, September 7-10, 2017
7. tutorial, the 14th International Conference on Parallel Computing Technologies (PaCT-2017), Nizhny Novgorod, Russia, September 4-8, 2017
8. tutorial, Learning and Intelligent Optimization LION-11, Nizhni Novgorod, Russia, June 19-21, 2017
9. plenary lecture, the 14th Annual Conference on Theory and Applications of Models of Computation TAMC 2017, Bern, Switzerland, April 20-22, 2017
10. plenary lecture, Global Optimization Conference GOC-2017, College Station, TX, USA, March 30 – April 1, 2017
11. plenary lecture opening the International Conference on Mathematical Methods & Computational Techniques in Science & Engineering, University of Cambridge, UK, February 24-26, 2017
12. plenary lecture, International Conference and School “High-Performance Computing, Optimization and Applications”, Nizhni Novgorod, Russia, November 7-11, 2016
13. plenary lecture, the 14th EUROPT Workshop on Advances in Continuous Optimization, Warsaw (Poland), July 1-2, 2016
14. tutorial, the 2nd International Conference and Summer School “Numerical Computations: Theory and Algorithms”, Pizzo Calabro, Italy, June 19–25, 2016
15. plenary lecture, the 7th International Workshop Data Analysis Methods for Software Systems, Druskininkai, Lithuania, December 3 – 5, 2015
16. plenary lecture, International Conference and School “High-Performance Computing, Optimization and Applications”, Nizhni Novgorod, Russia, November 16-20, 2015
17. plenary lecture, the 13th International Conference of Numerical Analysis and Applied Mathematics ICNAAM 2015, Rhodes, Greece, September 23-29, 2015
18. plenary lecture, the 14th International Conference on Unconventional Computation & Natural Computation, Auckland, New Zealand, 31 August – 4 September, 2015

19. keynote lecture, the 2015 World Congress in Computer Science, Computer Engineering, and Applied Computing, Las Vegas, USA, July 27-30, 2015
20. plenary lecture, 1st International Summer School for Sciences, History and Philosophy of Sciences & Science Education, Lille, France, June 22-26, 2015
21. invited semi-plenary lecture, New Trends in Numerical Analysis: Theory, Methods, Algorithms and Applications, Falerna (CZ), Italy June 18-21, 2015
22. plenary lecture opening the Joint ORSC/EURO International Conference 2015 on Continuous Optimization, Shanghai, China, May 10-12, 2015
23. plenary lecture, the 16th Baikal International Conference "Methods of Optimization and Their Applications", Olhon, Baikal, Russia, 30th of June - 6th of July, 2014
24. plenary lecture and tutorial, International Conference "Theory and Practice of Systems Analysis", Rybinsk, Russia, May 21-24, 2014
25. plenary lecture, the 9th Italian Workshop on Artificial Life and Evolutionary Computation, Vietri sul Mare, Salerno, Italy, May 14-15, 2014
26. plenary lecture opening the 11th International Conference "Theory and Applications of Models of Computation", Chennai, India, April 11-13, 2014
27. tutorial, EURO Mini-conference on Optimization in the Natural Sciences, Aveiro, Portugal, February 5-9, 2014
28. plenary lecture, International Conference "Optimal decisions in statistics and data analysis", Cardiff, UK, December 16-18, 2013
29. plenary lecture, international conference "Operations Research in Moscow", Moscow, October 15-18, 2013
30. plenary lecture, International Science and Information Conference, London, UK, October 7-9, 2013
31. invited 90 minutes lecture, International Workshop "The Number Road", Erice, Italy, September 27, 2013
32. tutorial, International Conference and Summer School "Numerical Computations: Theory and Algorithms", Falerna (CZ), Italy, June 17-23, 2013
33. tutorial, international conference "Learning and Intelligent Optimization LION-7", Catania, Italy, January 7-11, 2013
34. keynote lecture opening the 4<sup>th</sup> International Joint Conference on Computational Intelligence, Barcelona, Spain, October 3-7, 2012
35. plenary lecture and tutorial, 15<sup>th</sup> GAMM-IMACS International Symposium on Scientific Computing, Computer Arithmetic and Verified Numerical Computations, Novosibirsk, Russia, September 24-28, 2012
36. invited lecture, Constraint Programming and Decision Making Workshop CoProd'2012, Novosibirsk, Russia, September 23, 2012
37. plenary lecture, the 4th International Conference on the Dynamics of Information Systems, Gainesville, Florida, February 20-22, 2012
38. invited lecture, the 12th International Symposium "Frontiers of Fundamental Physics", Udine, Italy, November 21-23, 2011
39. plenary lecture, the 7<sup>th</sup> International Asian Summer School "Optimization of Complex Systems", Tashkent, Uzbekistan, October 17-27, 2011
40. tutorial, Summer School "Achievements and Applications of Contemporary Informatics, Mathematics and Physics", Kiev, Ukraine, August 12-19, 2011
41. plenary lecture, the 4th International conference "Mathematics, its Applications and Mathematical Education" Russia, Ulan-Ude, Baikal, June 27 - July 1, 2011
42. plenary lecture, the 15th Baikal International School-Seminar on Optimization Methods and their Applications, June 23-29, 2011
43. invited 45 minutes lecture, the International Workshop "New Worlds of Computation", Orléans, France, May 23-24, 2011
44. invited one-hour lecture, International Workshop of Natural Computing of the Ninth International Conference on Cellular Automata for Research and Industry, Ascoli Piceno, Italy, September, 21-24, 2010
45. plenary lecture, the Second International Conference on Mathematical Physics and Its Applications, Samara, Russia, August 29 - September 4, 2010
46. keynote lecture, the 3rd Yalta Optimization Conference, Yalta, Ukraine, August, 2-4, 2010
47. plenary lecture, International Conference on Optimization, Simulation and Control, Ulaanbaatar, Mongolia, July 25-28, 2010
48. keynote lecture, the 2010 World Congress in Computer Science, Computer Engineering, and Applied Computing, Las Vegas, USA, July 12-15, 2010
49. joint keynote lecture, the 2010 International Conference on Scientific Computing and Workshop on Cellular Automata, Theory and Applications, Las Vegas, USA, July 14, 2010;
50. tutorial, International workshop "Infinite and Infinitesimal in Mathematics, Computing, and Natural Sciences", Cetraro, Italy, May 17-21, 2010
51. plenary lecture, International conference "Optimization and Applications" (OPTIMA2009), Petrovac, Montenegro, September 21-25, 2009

52. tutorial, the international workshop “Optimization and Control with Applications”, Harbin, China, June 6-11, 2009
53. invited one hour lecture, the First World Congress on Global Optimization in Engineering & Science, Hunan, China, June 1-5, 2009
54. invited one hour lecture, the International Workshop “New Worlds of Computation”, Orléans, France, January 12, 2009
55. keynote lecture, Yalta Conference on Discrete and Global Optimization, Yalta, Ukraine, July, 31 – August, 2, 2008;
56. keynote lecture, the general plenary session of the World Multi-Conference WMSCI 2008 held jointly with the conferences RMCI 2008, MEI 2008, EIC 2008, and BMIC 2008, Orlando, Florida, June, 29 - July, 2, 2008;
57. invited one hour lecture, the World Congress of Nonlinear Analysts WCNA-2008, Orlando, Florida, July, 2-9, 2008.
58. tutorial, the 48th international workshop on Nonsmooth Analysis, Optimization and Applications, Erice, Italy, under the auspices of the International School of Mathematics “G. Stampacchia”, May, 9–17, 2008;
59. plenary lecture, International Conference of Numerical Analysis and Applied Mathematics ICNAAM 2007, September 16-20, 2007;
60. invited lecture, the 8th Mediterranean Workshop and Topical Meeting "Novel Optical Materials and Applications", Cetraro, Italy, June 3-9, 2007;
61. tutorial, the International Workshop on Learning and Intelligent Optimization, Andalo, Italy, February 12-18, 2007;
62. invited one hour lecture, the 15th Euromicro Conference on Parallel, Distributed and Network-based Processing, Naples, February 7-9, 2007;
63. plenary lecture opening the MATHESIS Congress, Trento, Italy, November 2-4, 2006;
64. plenary lecture, the Third International Conference of Applied Mathematics, Plovdiv, Bulgaria, August 12-18, 2006;
65. plenary lecture, International Conference “Applied Optimization and Metaheuristic Innovations”, Yalta, Ukraine, July 17-23, 2006;
66. invited lecture, the second International Workshop on Variational Analysis and Partial Differential Equations, Erice, Italy, under the auspices of the International School of Mathematics “G. Stampacchia”, July 5-14, 2006;
67. round table “Infinity Computer and Calculus”, the 8th Congress of SIMAI (La Societa' Italiana di Matematica Applicata e Industriale), Ragusa (Sicily), May 22-26, 2006;
68. plenary lecture, the XXI Autumn Meeting of the Polish Information Processing Society, Katowice, Poland, December 5-9, 2005;
69. plenary lecture, the International Workshop on Global Optimization, Almeria, Spain, September 18-22, 2005;
70. tutorial, the International Conference on Complementarity, Duality, and Global Optimization in Science and Engineering, Blacksburg, Virginia, USA, August 15-17, 2005;
71. plenary lecture, International Conference on Difference Equations, Special Functions and Applications, Munich, July 25-30, 2005;
72. plenary lecture, International Conference “Numerical Analysis: the State of the Art”, Rende (CS), Italy, May, 19-21, 2005;
73. invited semi-plenary lecture at the International conference on Selected Problems of Modern Mathematics, dedicated to the 200th anniversary of K.G. Jacobi and the 750th anniversary of the Koenigsberg foundation, Kaliningrad, April, 4-8, 2005;
74. tutorial, the Workshop "Numerical Methods and Mathematical Software", Montecatini Terme (PT), January 31 - February 1, 2005;
75. plenary lecture, the VI-th International Congress on Mathematical Modelling, Nizhni Novgorod, Russia, September, 21-26, 2004;
76. opening invited lecture, the congress “Infinity in Mathematics, Physics, and Philosophy”, Pisa, Italy, 26.03.2004.

## INVITED SPEAKER

Johnson Space Center, NASA, Houston, USA; Università di Bari, Università di Bergamo, Università di Bologna, University of Bergen (Norway), Università Ca' Foscari di Venezia, Università di Cagliari, Università di Ferrara (minicorso per i dottorandi di ricerca), Università di Firenze, Università di Milano, Politecnico di Milano, Università di Modena, Università di Napoli “Federico II”, Università di Orléans, Università di Padova, Università di Palermo, Università di Pisa, Università di Reggio Calabria, Università di Roma “La Sapienza”, Università di Salerno, Università di Siena, Università di Torino, Università di Trento, Università di Trieste, University of Aberdeen (UK), University of Amsterdam (Olanda), Anna University of Chennai (India), Universidad de Almeria

(Spagna), University of Barcellona (Spagna), University of Cambridge (UK), University of Cardiff (UK), City University of New York (The Graduate Center), Dokuz Eylul University (Izmir, Turkey), East China Normal University (Shanghai), Ege University (Izmir, Turkey), Imperial College (London, UK), Middlesex University (London, UK), University of Oxford (UK), Putra University (Kuala Lumpur); Queen Mary University (UK), University of Roskilde (Denmark), Technical University of Denmark (Kopenhagen), Technical University of Munich (Germany), University “M.V. Lomonosov” of Moscow, Moscow City Pedagogical University, University of St. Petersburg, University of Kaliningrad (Russia), Queensland University (Australia), Utah University (USA), Wageningen Agricultural University (Olanda), IASI CNR (Roma), IAMI CNR (Milano), Russian Academy of Education (Moscow), Institute of Computer Science of the Academy of Sciences of the Czech Republic, Tokyo Institute of Technology, Institute of Applied Mathematics and Information Technology, Pavia, both of the Italian National Research Council; the following Institutes of the Russian Academy of Sciences:

Computing Centre of the Russian Academy of Sciences, Moscow; Institute of Applied Physics, Nizhni Novgorod; Institute of Control Sciences, Moscow; Institute for Mathematical Modelling, Moscow; Institute of Numerical Mathematics, Moscow; Institute of Systems Analysis, Moscow; The Program Systems Institute, Pereslavl-Zalessky; Sobolev Institute of Mathematics, Novosibirsk; Steklov Mathematical Institute, Moscow; Steklov Mathematical Institute, St. Petersburg;

Institute of Computer Science of the Academy of Sciences of the Czech Republic, Prague; Institute of Cybernetics and Institute of Mathematics, both of the National Ukrainian Academy of Sciences, Kiev; Russian Academy of Education, Moscow; Catania Astrophysical Observatory of the Italian National Institute of Astrophysics; Bologna Academy of Sciences; Italian Institute of Philosophical Studies, Naples; Moscow philosophical seminar “Philosophy of mathematics”; Simula, Oslo; Nizhni Novgorod Mathematical Society, etc.

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## SELECTED MEDIA CITATIONS

1. Article, *La Repubblica*, 28.03.2018
2. Article, *ПОНЕДЕЛЬНИК*, 16.01.2018
3. Article, *RIA Novosti*, 06.12.2017
4. Article, *ITAR-TASS*, 26.11.2017
5. Article, *ScienceNewline*, 24.11.2017
6. Article, *Technologybreakingnews.com*, 22.11.2017
7. Article, *Supercomputingonline.com*, 22.11.2017
8. Article, *EurekAlert! Science News by the American Association for the Advancement of Science (AAAS)*, 22.11.2017
9. Article, *ScienceNewline*, 13.11.2017
10. Article, *EurekAlert! Science News by the American Association for the Advancement of Science (AAAS)*, 10.11.2017
11. Article, *Russian Information Agency Novosti (RIA Novosti)*, 24.10.2017
12. Article, *Gazeta.ru*, 13.10.2017
13. Interview to Russian national TV Channel “Culture”, 14.03.2017
14. Interview to *ITAR-TASS*, 11.03.2017
15. Article, *Notiziario dell’Unione Matematica Italiana*, # 11-12, pages 14-15, 2015
16. Interview to *Russia Beyond The Headlines*, 29.01.2015
17. Short film in Russian, TV Channel “Volga”, 2013
18. Interview to *ITAR-TASS*, 7.11.2012
19. Article, *MIT Technology Review*, 19.03.2012.
20. Article, *The Voice of Russia*, 10.02.2012.
21. Article in Russian newspaper “*Биржа+Карьера*”, 8.02.12.
22. Article in the weekly magazine “*Computerworld*” (Russian Edition), #22, 2011.
23. 50 minutes long lecture at Russian national TV Channel “Culture”, September 2011
24. Article in *TASS-TELECOM*, August 11, 2011
25. Article in “*New Scientist*” (Russian Edition) magazine, #3, 2011.
26. Article in Italian newspaper “*Il Crotonese*”, 2.12.2010.
27. Numerous articles have been dedicated to the Pythagoras International Prize for mathematics (see 1<sup>st</sup> Russian TV Channel, *The Voice of Russia*, *Il Sole 24 Ore*, *Gazzetta del Sud*, *Il Quotidiano*, *Il Crotonese*, *ITAR-TASS*, *RIA Novosti*, *Rossiyskaya gazeta*, *Haberhurriyeti*, etc.), 2010
28. Article in Russian National newspaper “*Ведомости*” and *e-newspaper ria.ru*, 19.08.2010.

29. Article in Italian *e*-newspaper “Gazzettino Europeo”, 26.06.2010.
30. Article in Turkish newspaper “Haberhurriyeti”, 28.05.2010.
31. Article in Italian newspaper “Calabria Ora”, 22.05.2010.
32. Article in Italian newspaper “Il Quotidiano”, 18.05.2010.
33. Article in Italian newspaper “Calabria Ora”, 18.05.2010.
34. Article in Italian newspaper “Gazzetta del Sud”, 18.05.2010.
35. Article in Italian monthly magazine “Newton”, March, 2010.
36. Article in Russian monthly magazine “Наука и Жизнь” (Science and Life), # 8, 2009.
37. Article in Turkish newspaper “Haberhurriyeti”, 10.05.2009.
38. Article in Italian quarterly magazine “Tutto Misure”, #2, 2008.
39. Article in Italian monthly magazine “Quale Computer”, #12, 2007.
40. Interview to Russian monthly magazine “Открытые системы”, #7, 2007.
41. Two articles in Russian weekly magazine “Computerra”, #33, 2007.
42. Article in the weekly magazine “Computerworld” (Russian Edition), #31, 2007.
43. Article in Russian National *e*-newspaper “Наука.Известия”, 28.05.2007.
44. Cover story in Italian National *e*-newspaper Key4biz: Knowledge for Business, 11.05.2007.
45. Article in the leading Italian weekly magazine “Panorama”, 07.12.2006.
46. Article in Russian National newspaper “Ведомости”, 30.11.2006.
47. Book “Italian applications”, edited by F. Pedrocchi, 240 pages, Hublab Eds., 2006 describing the most promising Italian innovations.
48. Interview to Italian radio station RadioCitta’Fujiko, 22.04.2006.
49. Interview to the Italian National business newspaper “Il Sole 24 Ore”, 27.08.2005.
50. Interview to Italian National newspaper “Italia Oggi” reprinted also by Italian National newspaper “MF” (Milan Finance), 12.07.2005.
51. Interview to Italian National radio station Radio24, 23.06.2005.
52. Cover story, department “Technology, Notable New Patents” of the U.S.A. magazine of intellectual property and technology “IpFrontline”, 15.06.2005.
53. The Optimization Research Bridge Newsletter, Issue 9, March 2003.

## SELECTED PROJECTS

1. coordinator of the GNCS projects in the field of numerical analysis of the Italian national research association on scientific computing, 2014, 2015, 2018
2. coordinator of the project №15-11-30022 "Global optimization, supercomputing computations, and applications" of the Russian Science Foundation, 2015-2017
3. Russian coordinator of the international project "Italian-Russian University", 1994 - ...
4. coordinator of the project "High accuracy supercomputations and solving global optimization problems using the information approach" as an invited leading foreign scientist in the framework of the Russian Federal Program "Scientists and Educators in Russia of Innovations", 2012-1.5-12-000-1005-008, 2012-2013
5. coordinator of the project "Mathematical models for making optimal decisions and numerical methods for high-performance computers" as an invited leading foreign scientist in the framework of the Russian Federal Program "Scientists and Educators in Russia of Innovations", 02.740.11.5018, 2009-2010
6. coordinator of the projects 08-01-11506-c and 08-01-07031-d of the Russian Foundation of Basic Research dedicated to global optimization, 2008
7. responsible for the research stream “Representation and control of complex systems” at the Institute of Systems Analysis and Information Technology, 1994-2002
8. participation at the coordination of the projects TEMPUS JEP 08536/94, TEMPUS Mobility JEP-10461-98, TEMPUS CD\_JEP-23225-2002, TEMPUS SM\_SCM-T023B05-2005
9. participant at the project 4138 “Information Technology for Large-Scale Data Mining on the Basis of Efficient Discrete Programming Algorithms” of the Science and Technology Centre in Ukraine, 2007-2009
10. participant at several FIRB and PRIN projects of the Italian Ministry of Research and Education dedicated to optimization
11. participant at the following projects of the Russian Foundation of Basic Research: RFBR 11-01-00682-a, 07-01-00467-a, 04-01-00455-a dedicated to global optimization and high-performance computing

## ORGANIZATION of CONFERENCES



2019	The 3rd International Conference and Summer School “Numerical Computations: Theory and Algorithms”, Le Castella – Isola Capo Rizzuto, Crotona, Italy, June 15-21, 2019, <b>Chairman of the Scientific Committee</b>
2019	The 6th World Congress on Global Optimization, Metz, France, July 8-10, 2019, <b>Co-Chair</b>
2018	The 14 <sup>th</sup> International Workshop on Global Optimization LeGO 2018, Leiden, The Netherlands, <b>Co-Chairman</b>
2017	Learning and Intelligent Optimization LION-11, Nizhni Novgorod, Russia, <b>General Chair</b>
2017	International Conference and School “High-Performance Computing, Optimization and Applications”, Nizhni Novgorod, Russia, <b>Co-Chairman of the Scientific Committee</b>
2016	International Conference and School “High-Performance Computing, Optimization and Applications”, Nizhni Novgorod, Russia, <b>Co-Chairman of the Scientific Committee</b>
2016	The 2 <sup>nd</sup> International Conference “Numerical Computations: Theory and Algorithms”, Pizzo Calabro, Italy, <b>Chairman of the Scientific Committee</b>
2015	International Conference and School “High-Performance Computing, Optimization and Applications”, Nizhni Novgorod, Russia, <b>Co-Chairman of the Scientific Committee</b>
2013	International Conference “Numerical Computations: Theory and Algorithms”, Falerna, Italy, <b>Chairman of the Program Committee</b>
2010	Infinite and Infinitesimal in Mathematics, Computing, and Natural Sciences, Cetraro, Italy, <b>Chairman of the Program Committee</b>
2003	Numerical Methods for Local and Global Optimization: Sequential and Parallel Algorithms, International Scientific Meeting, Cortona, Italy, <b>Co-Chair of the Scientific Committee</b>
2019	The 17th EUROPT Workshop on Advances in Continuous Optimization, Strathclyde, UK, Member of the Program Committee
2019	Theory and Applications of Models of Computation (TAMC 2019), Kitakyushu City, Japan, Member of the Program Committee
2018	The 23rd International Symposium on Mathematical Programming ISMP 2018, Bordeaux, France, Member of the Scientific Committee
2018	The IX International Conference “Optimization and Applications” (OPTIMA-2018), Petrovac, Montenegro, Member of Program Committee
2018, 2016, 2014, 2013, 2012, 2011, 2010, 2009, 2007	Learning and Intelligent Optimization series of international conferences: LION-12 2018, LION-10 2016, LION-8 2014, LION-7 2013, LION-6 2012, LION-5 2011, LION-4 2010, LION-3 2009, LION-2 2007, and LION 2007, Member of the Program Committees
2017	The VIII International Conference “Optimization and Applications” (OPTIMA-2017), Petrovac, Montenegro, Member of Program Committee
2017	The 17th Baikal International Conference “Methods of Optimization and Their Applications”, Olhon, Baikal, Russia, Member of the Program Committee
2017	The 2nd International Conference on Recent Advances in Mathematical Sciences and its Applications RAMSA-2017, New Delhi, India, Member of the International Advisory Committee
2017	Systems Analysis and Information Technologies SAIT 2017, Svetlogorsk, Russia, Member of the Program Committee
2017	The 14th International Conference on Parallel Computing Technologies, Nizhni Novgorod, Russia, Member of the Programme Committee
2017	Global Optimization Conference GOC-2017, College Station, TX, USA, Member of the Program Committee
2017	The 25 <sup>th</sup> International conference on Parallel, Distributed, and Network-Based Processing, Special Session on High Performance Computing in Modelling and Simulation, St. Petersburg, Russia, Member of the Programme Committee
2016	Supercomputing Co-Design Technology Workshop at the 16th International Conference on Algorithms and Architectures for Parallel Processing, Granada, Spain, Member of the Programme Committee
2016	VIII international Operations Research Conference, Moscow, Russia, Member of the Program Committee
2016	International Conference on Discrete Optimization and Operations Research, Vladivostok, Russia, Member of the Program Committee

2016	XIII Global Optimization Workshop, Braga, Portugal, Member of the International Scientific Committee
2016	VI international conference and school "Applied Mathematics and Fundamental Informatics", Omsk, Russia, Member of the Scientific Committee
2016	The 24 <sup>th</sup> International conference on Parallel, Distributed, and Network-Based Processing, Special Session on High Performance Computing in Modelling and Simulation, Crete, Greece, Member of the Programme Committee
2015	1st International Summer School for Sciences, History and Philosophy of Sciences & Science Education, Lille, France, Member of the Scientific Committee
2015	International Conference "Russian Supercomputing Days", Moscow, Member of the Program Committee
2015	The 13 <sup>th</sup> International Conference of Numerical Analysis and Applied Mathematics ICNAAM 2015, Rhodes, Greece, Organizer of the Session "Global Optimization and Numerical Analysis"
2015	Joint ORSC/EURO International Conference on Continuous Optimization, Shanghai, China, Organizer of the Session "Global Optimization and Control"
2015	World Congress on Global Optimization WCGO 2015, Gainesville, Florida - USA, Member of the Program Committee
2015	Modelling, Computation and Optimization in Information Systems and Management Sciences (MCO 2015), Metz, France, Member of the Program Committee
2015	Optimization Problems and their Economical Applications, Omsk, Russia, Member of the Program Committee
2015	New Trends in Numerical Analysis, Falerna, Italy, Member of the Scientific Committee
2015	V international conference and school "Applied Mathematics and Fundamental Informatics", Omsk, Russia, Member of the Scientific Committee
2015	The 23 <sup>rd</sup> Euromicro International conference on Parallel, Distributed, and Network-Based Processing, Special Session on High Performance Computing in Modelling and Simulation, Turku, Finland, Member of the Programme Committee
2014	The 16th Baikal International Conference "Methods of Optimization and Their Applications", Olhon, Baikal, Russia, Member of Program Committee
2014	the 5th International conference "Mathematics, its Applications and Mathematical Education" Russia, Ulan-Ude, Baikal, Member of Program Committee
2014	International Conference "Applied Mathematics and Fundamental Computer Science", Omsk, Russia, Member of the Program Committee
2013	VII international Operations Research Conference, Moscow, Russia, Member of the Program Committee
2013	9th International Conference Innovative Economy of XXth century, Nizhni Novgorod, Russia, Member of the Organizing Committee
2012	VI International Workshop "Generalized Statements and Solutions of Control Problems", Gelendzhik, Russia, Member of the International Program Committee
2012	the 8th International Asian Summer School "Optimization of Complex Systems", Omsk, Russia, Member of the International Program Committee
2012	International conference "Optimization and Applications" (OPTIMA - 2012), Costa da Caparica, Portugal, Member of the Organizing Committee
2011	International conference "Optimization and Applications" (OPTIMA - 2011), Petrovac, Montenegro, Member of the Organizing Committee
2011	the 7th International Asian Summer School "Optimization of Complex Systems", Member of the International Program Committee, Tashkent, Uzbekistan
2011	the 4th International conference "Mathematics, its Applications and Mathematical Education" Russia, Ulan-Ude, Baikal, Member of Program Committee
2011	International Conference FutureTech 2011, Member of the International Program Committee, section 5 - Digital Convergence, Crete, Greece
2011, 2009, 2007, 2005, 2003, 2001, 1999, 1997	1st - 8th International Conferences on Regional Aspects of Public Economics, Nizhni Novgorod, Russia, Member of the Organizing Committee
2010	International Conference on Nanotechnology Software Tools, Phuket, Thailand, Member of the International Program Committee

2010	The 2010 International Conference on Foundations of Computer Science, Las Vegas, USA, Member of the International Program Committee
2010	The 2010 International Conference on Computer Design, Las Vegas, USA, Member of the International Program Committee
2010	The third Yalta Optimization Conference, Yalta, Ukraine, Member of the Advisory Committee
2010	The 2010 International Conference on Scientific Computing, Las Vegas, USA, Member of the International Program Committee
2010	The 2010 International Conference on Frontiers in Education: Computer Science and Computer Engineering, Las Vegas, USA, Member of the International Program Committee
2010	International Conference on Optimization, Simulation and Control, Ulaanbaatar, Mongolia, Member of the Scientific Committee
2009	The First World Congress on Global Optimization in Engineering & Science, Hunan, China, Member of the Scientific Committee
2009	International conference "Optimization and Applications" (OPTIMA2009), Petrovac, Montenegro, Member of the Organizing Committee
2008	The Yalta Conference on Discrete and Global Optimization, Yalta, Ukraine, Member of the Advisory Committee
2008	8th International Conference "Parallel Computations on Clusters", Kazan', Russia, Member of the Programming Committee
2007, 2005, 2003, 2002, 2001	1st – 3rd, 5th, 7th International Conferences "Parallel Computations on Clusters", Nizhni Novgorod, Russia, Member of the Organizing Committee
2004	DEIS Workshop, Member of the Scientific Committee
2004	VI International Congress on Mathematical Modeling, Nizhni Novgorod, Russia, Member of the Organizing Committee
2001	Optimization 2001, Aveiro, Portugal, Organizer of Sessions "Global Optimization 1 and 2"

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## PERSONAL INFORMATION

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## Yaroslav D. Sergeyev

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### LIST OF PAPERS

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#### 1. Books

1. Sergeyev Ya.D., Kvasov D.E. (2017) Deterministic global optimization: An introduction to the diagonal approach, Springer, NY.

2. Sergeyev Ya.D., Strongin R.G., Lera D. (2013) Introduction to global optimization exploiting space-filling curves, Springer, NY.
  3. Sergeyev Ya.D., Kvasov D.E. (2008) Diagonal global optimization methods, Fizmatlit, Moscow, (in Russian). MAIK "Nauka/Interperiodica" Prize for the best scientific monograph published in 2008
  4. Sergeyev Ya.D. (2003) Arithmetic of infinity, Edizioni Orizzonti Meridionali, CS.
  5. Strongin R.G., Sergeyev Ya.D. (2000, 2<sup>nd</sup> ed. 2013, 3<sup>rd</sup> ed. 2014) Global optimization with non-convex constraints: Sequential and parallel algorithms, Kluwer Academic Publishers, Dordrecht, 728 pp.
  6. Sergeyev Ya.D., Strongin R.G., Grishagin V.A. (1998) Introduction to parallel global optimization, *Nizhni Novgorod University Press*, Nizhni Novgorod, (in Russian).
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## **2. Prefaces to edited volumes, special issues of international journals, proceedings, etc.**

7. De Leone R., Sergeyev Ya.D. , Zhigljavsky A. (2018) Guest editors' preface to the special issue devoted to the 2nd International Conference "Numerical Computations: Theory and Algorithms - NUMTA 2016", June 19-25, 2016, Pizzo Calabro, Italy, *Journal of Global Optimization*, 71(1), 1–4.
8. Brugnano L., Kvasov D.E., Sergeyev Ya.D. (2018) Foreword to the special issue "Recent Trends in Numerical Computations: Theory and Algorithms", *Applied Mathematics and Computation*, 318, 1–2.
9. Battiti R., Kvasov D.E., Sergeyev Ya.D. (2017) Preface, Learning and Intelligent Optimization, Proceedings of the 11th International Conference LION 11, Nizhny Novgorod, Russia, June 19–21, 2017, Revised Selected Papers, LNCS, vol. 10556, V-VI.

10. Sergeyev Ya.D., Kvasov D.E., Dell'Accio F., Mukhametzhanov M.S. (2016) Preface: The 2nd International Conference "Numerical Computations: Theory and Algorithms" NUMTA–2016, AIP Conf. Proc. 1776, 010001 (2016); doi: 10.1063/1.4965306
11. Sergeyev Ya.D. (2016) Preface to the special issue "Recent developments in non-linear and global optimization", *Optimization Letters*, 10(2), 215-218.
12. Sergeyev Ya.D. (2016) Preface, Book of Abstracts of the 2<sup>nd</sup> International Conference "Numerical Computations: Theory and Algorithms", eds. Ya.D. Sergeyev, D.E. Kvasov, F. Dell'Accio, M.S. Mukhametzhanov, Unical, Cosenza, pp. 12-13.
13. Sergeyev Ya.D., Mukhametzhanov M.S. (2016) Preface of the "Symposium on Global Optimization and Numerical Analysis", AIP Conference Proceedings 1738, 400001 (2016); doi: 10.1063/1.4952189
14. De Leone R., Kvasov D.E., Sergeyev Ya.D. (2015) Guest editors' foreword to the special issue devoted to the international conference "Numerical computations: Theory and Algorithms" June 17–23, 2013, Falerna, Italy, *Applied Mathematics and Computation*, 255, 1-2.
15. Brugnano L., Sergeyev Ya.D., Zhigljavsky A.A. (2015) Preface to the special issue NUMTA 2013, *Communications in Nonlinear Science and Numerical Simulation*, 21(1), 1-2.
16. Sergeyev Ya.D. (2013) Foreword, Proceedings of the International Conference "Numerical Computations: Theory and Algorithms", eds. F. Dell'Accio, D.E. Kvasov, Ya.D. Sergeyev, Pellegrini Editore, Cosenza, pp. 15-16.
17. De Leone R., Sergeyev Ya.D., Zhigljavsky A.A. (2012) Foreword (special issue dedicated to the international workshop "Infinite and Infinitesimal in Mathematics, Computing and Natural Sciences", Cetraro, Italy, May 17–21, 2010), *Applied Mathematics and Computation*, 218(16), 7977-7978.

18. Sergeyev Ya.D. (2012) Foreword of the scientific editor of the Russian translation of the book *G. Lolli, Filosofia della matematica: L'eredità del Novecento*, Series "Scientific Classics", University of Nizhni Novgorod Press, Nizhni Novgorod. The winner in the annual national competition "University Book" in Russia in the nomination "The best translation".
  19. Pardalos P.M., Sergeyev Ya.D. (2010) Foreword (special issue celebrating the 70th birthday of Roman G. Strongin), *Journal of Global Optimization*, 48(1), 1-2.
  20. Fletcher R., Ruggiero V., Sergeyev Ya.D., Strongin R.G. (2005) Foreword (special issue dedicated to the INdAM scientific meeting "Numerical Methods for Local and Global Optimization: Sequential and Parallel Algorithms", Cortona, Italy, July 14-20, 2003), *Optimization Methods and Software*, 20(4), 415-416.
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### 3. Papers published in international journals

21. Sergeyev Ya.D., Strongin R.G. (1990) A global minimization algorithm with parallel iterations. *Comput. Maths. Math. Phys.*, 29(2), 7-15.
22. Strongin R.G., Sergeyev Ya.D. (1992) Global multidimensional optimization on parallel computer. *Parallel Computing*, 18, 1259-1273.
23. Gergel V.P., Sergeyev Ya.D., Strongin R.G. (1992) A parallel global optimization method and its implementation on a transputer system. *Optimization*, 26, 261-275.
24. Sergeyev Ya.D., Grishagin V.A. (1994) A parallel algorithm for finding the global minimum of univariate functions. *Journal of Optimization Theory and Applications*, 80(3), 513-536 .
25. Sergeyev Ya.D., Grishagin V.A., (1994) Sequential and parallel global optimization algorithms, *Optimization Methods and Software*, 3, 111-124.

26. Cannataro M., Sergeyev Ya.D., Spezzano G., Talia D. (1994) PNS: A dynamic mapping strategy for massively parallel computers, *Computers & Artificial Intelligence*, 13(5), 477-494.
27. Sergeyev Ya.D. (1995) An information global optimization algorithm with local tuning, *SIAM Journal on Optimization*, 5(4), 858-870.
28. Sergeyev Ya.D. (1995) A one-dimensional deterministic global minimization algorithm, *Comput. Maths. Math. Phys.*, 35(5), 705-717.
29. Daponte P., Grimaldi D., Molinaro A., Sergeyev Ya.D. (1995) An algorithm for finding the zero crossing of time signals with Lipschitzean derivatives, *Measurement*, 16(1), 37-49.
30. Sergeyev Ya.D., Markin D.L. (1995) An algorithm for solving global optimization problems with nonlinear constraints, *Journal of Global Optimization*, 4(4), 407-419.
31. Daponte P., Grimaldi D., Molinaro A., Sergeyev Ya.D. (1996) Fast detection of the first zero-crossing in a measurement signal set, *Measurement*, 19(1), 29-39.
32. Grishagin V.A., Sergeyev Ya.D., Strongin R.G. (1997) Parallel characteristic global optimization algorithms, *Journal of Global Optimization*, 10, 185-206.
33. Sergeyev Ya.D. (1998) Global one-dimensional optimization using smooth auxiliary functions, *Mathematical Programming*, 81(1), 127-146.
34. Celani M., Cerulli R., Gaudioso M., Sergeyev Ya.D. (1998) A multiplier adjustment technique for capacitated concentrator location problem, *Optimization Methods & Software*, 10(1), 87-102.
35. Sergeyev Ya.D. (1998) On convergence of "Divide the Best" global optimization algorithms, *Optimization*, 44(3), 303-325.

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37. Gergel V.P., Sergeyev Ya.D. (1999) Sequential and parallel global optimization algorithms using derivatives, *Computers & Mathematics with Applications*, 37(4/5), 163-180.
38. Famularo D., Pugliese P., Sergeyev Ya.D. (1999) A global optimization technique for checking parametric robustness, *Automatica*, 35, 1605-1611.
39. Sergeyev Ya.D. (1999) Parallel information algorithm with local tuning for solving multidimensional GO problems, *Journal of Global Optimization*, 15(2), 157-167.
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42. Sergeyev Ya.D. (2000) An efficient strategy for adaptive partition of N-dimensional intervals in the framework of diagonal algorithms, *Journal of Optimization Theory and Applications*, 107(1), 145-168.
43. Molinaro A., Pizzuti C., Sergeyev Ya.D. (2001) Acceleration tools for diagonal information global optimization algorithms, *Computational Optimization and Applications*, 18(1), 5-26.
44. Grishagin V.A., Sergeyev Ya.D., Silipo D. (2001) Firms' R&D decisions under incomplete information, *European Journal of Operational Research*, 129(2), 414-433.
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47. Sergeyev Ya.D., Famularo D., Pugliese P. (2001) Index Branch-and-Bound Algorithm for Lipschitz univariate global optimization with multiextremal constraints, *Journal of Global Optimization*, 21(3), 317-341.
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56. Gaviano M., Kvasov D.E., Lera D., Sergeyev Ya.D. (2003) Algorithm 829: Software for generation of classes of test functions with known local and global minima for global optimization, *ACM Transactions on Mathematical Software*, 29(4), 469-480.
57. Martínez J.A., Casado L.G., García I., Sergeyev Ya.D., Toth B. (2004) On an efficient use of gradient information for accelerating interval global optimization algorithms, *Numerical Algorithms*, 37, 61-69.
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61. Carotenuto L., Pugliese P., Sergeyev Ya.D. (2006) Maximizing performance and robustness of PI and PID controllers by global optimization, *International Journal of Control and Intelligent Systems*, 34(3), 225-235.
62. Sergeyev Ya.D. (2006) Univariate global optimization with multiextremal non-differentiable constraints without penalty functions, *Computational Optimization and Applications*, 34(2), 229-248.
63. Sergeyev Ya.D., Kvasov D.E. (2006) Global search based on efficient diagonal partitions and a set of Lipschitz constants, *SIAM Journal on Optimization*, 16(3), 910-937.

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65. Sergeyev Ya.D., Kvasov D.E., Khalaf F.M.H. (2007) A one-dimensional local tuning algorithm for solving GO problems with partially defined constraints, *Optimization Letters*, 1(1), 85-99.
66. Sergeyev Ya.D. (2007) Blinking fractals and their quantitative analysis using infinite and infinitesimal numbers, *Chaos, Solitons & Fractals*, 33(1), 50-75.
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70. Sergeyev Ya.D. (2009) Numerical computations and mathematical modelling with infinite and infinitesimal numbers, *Journal of Applied Mathematics and Computing*, 29, 177-195.
71. Kvasov D.E., Sergeyev Ya.D. (2009) A univariate global search working with a set of Lipschitz constants for the first derivative, *Optimization Letters*, 3(2), 303-318.
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