

PERSONAL INFORMATION

Born : 1977 Languages : English, Italian, Russian

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CURRENT POSITION

- Assistant Professor in Numerical Analysis (since December 2008), DIMES, University of Calabria, Rende (CS), Italy.
- Senior Programmer (part-time contract) at the Institute of Information Technology, Mathematics and Mechanics, "Lobachevsky" State University of Nizhny Novgorod, Russia.
- Italian National Scientific Habilitation as Associate Professor in Numerical Analysis (2017–2023) and as Associate Professor in Operations Research (2017–2023)

PAST POSITIONS

- Research Fellow in Numerical Analysis (December 2005 – November 2008), DEIS, University of Calabria. Research Title: "Lipschitzian Global Optimization with Multiextremal Constraints".

FORMATION and DEGREES

- Ph.D. in Operations Research (May 2006), Department of Statistics, University of Rome "La Sapienza" (Italy). Ph.D. Thesis "Multidimensional Lipschitz Global Optimization Based on Efficient Diagonal Partitions". Supervisor: Prof. Ya.D. Sergeyev.
- Graduated, with honours, in Information Systems (June 2001), "Lobachevsky" State University of Nizhni Novgorod (Nizhni Novgorod, Russia), Faculty of Computing Mathematics and Cybernetics. Supervisor: Prof. Ya. D. Sergeyev.
- Graduated, with honours, in Computer Systems Engineering (April 2001), University of Calabria (Rende, CS, Italy), Engineering Faculty. Supervisors: Prof. Ya.D. Sergeyev and Prof. F. Scarcello.

RESEARCH INTERESTS

- Continuous global optimization (numerical methods and convergence analysis) and applications.
- High-performance and infinity computing.

LIST OF PAPERS

List of papers includes 102 items: 2 books, 25 papers in journals, 2 papers submitted to international journals, 8 papers in books and encyclopedia, 56 refereed articles in proceedings of international conferences, 3 didactic papers, 3 edited volume, and 3 technical reports.

Mathematical software for testing global optimization methods developed with his active participation is now used in more than 40 countries of the world.

RESEARCH PROJECTS

- Participation (2015-2017) in the project num. 15-11-30022 "Global optimization, supercomputing computations, and applications" of the Russian Science Foundation.
- Participation (2014-2015) in the INdAM-GNCS 2014 e 2015 Research Projects "Numerical Methods for Nonlinear Optimization", financed by the Italian INdAM Institute for High and Applied Mathematics, Italy.
- Participation (2012-2013) in the Russian Federal Program "Scientists and Educators in Russia of Innovations", contract number 14.B37.21.0878.
- Coordinator of the "INdAM-GNCS Young Researchers" projects for 2009 and for 2010, research program "Lipschitzian Global Optimization", financed by the Italian INdAM Institute for High and Applied Mathematics, Italy.
- Coordinator (2010-2011) of a project in global optimization financed by the Council of the President of the Russian Federation for supporting young researchers (grant number MK-3473.2010.1).
- Participation (2008-2010) in scientific project PRIN n. 20079PLLN7 "Nonlinear Optimization, Variational Inequalities, and Equilibrium Problems", Italian Ministry of Education, Universities and Research.
- Participation (2002–2004) in scientific project FIRB n. RBAU01JYPN "Parallel Algorithms and Non-Linear Numerical Optimization", financed by the Italian Fund for Fundamental Research.
- Participation (2009-2010) in the Russian Federal Program "Scientists and Educators in Russia of Innovations", contract number 02.740.11.5018.
- Participation in scientific projects (all regarding global optimization and parallel computation) RFBR n. 01-01-00587 (2002–2003), n. 07-01-00467-a (2007-2009), n. 08-01-11506-c (2008-2009), 11-01-00682-a (2011-2013) financed by the Russian Foundation of Basic Research, and in scientific projects n. 4694.2008.9 (2008-2009), n. 64729.2010.9 (2010-2011), and n. 1960.2012.9 (2012-2013) awarded by the President of the Russian Federation for supporting the leading research groups.
- Project of the Russian Foundation for Fundamental Research, dedicated to the Global Optimization, 2008.

ACTIVITIES for INTERNATIONAL JOURNALS

- Member of the Editorial Board of the international journal 'Journal of Global Optimization' (Springer), since 2015.
- Guest-Editor (together with L. Brugnano and Ya.D. Sergeyev) of the special issue of 'Applied Mathematics and Computation' (Elsevier), 08/2016 – 10/2017: Vol. 318, 2018.
- Guest-Editor (together with R. De Leone and Ya.D. Sergeyev) of the special issue of 'Applied Mathematics and Computation' (Elsevier), 08/2013 - 04/2015: Vol. 255, 2015.
- Reviewer for the following international journals: 'Journal of Global Optimization', Springer (since 2005), 'Computational Optimization and Applications', Springer (since 2008), 'Neural Computing and Applications', Springer (since 2010), 'Optimization Letters', Springer (since 2010), 'Informatica', Lithuanian Inst. Math. & Inform. (since 2011), 'Applied Mathematics and Computation', Elsevier (since 2011), 'Journal of Optimization Theory and Applications', Springer (since 2012), 'Optimization', Taylor&Francis Group's Journal of Mathematical Programming and Operations Research (since 2013), 'Communications in Nonlinear Science and Numerical Simulation', Elsevier (since 2014), 'International Transactions in Operational Research', Wiley (since 2015), 'Optimization and Engineering', Springer (since 2016), '4OR - A Quarterly Journal of Operations Research', Springer (since 2016), 'Journal of Experimental&Theoretical Artificial Intelligence', Taylor&Francis Group (since 2017), 'Optimization Methods and Software', Taylor&Francis Group (since 2017), 'Applied Mathematical Modelling', Elsevier (since 2017), 'Knowledge-Based Systems', Elsevier (since 2017). Reviewer for AMS Mathematical Reviews (since 2013).

EDITORIAL ACTIVITIES

- Editor (together with R. Battiti and Ya.D. Sergeyev) of the volume: Learning and Intelligent Optimization: 11th International Conference LION-11 (Nizhny Novgorod, Russia, 19-21 June 2017), LNCS Volume 10556, Springer International Publishing AG, 2017. ISBN: 978-3-319-69403-0, DOI: 10.1007/978-3-319-69404-7.
- Editor (together with F. Dell'Accio, M.S. Mukhametzhanov e Ya.D. Sergeyev) of the volume: Proceedings of the International Conference “Numerical Computations: Theory and Algorithms NUMTA-2016”. AIP Conference Proceedings: New York (USA), volume 1776, 2016. ISBN: 978-0-7354-1438-9, DOI: 10.1063/1.4965306.
- Editor (together with F. Dell'Accio and Ya.D. Sergeyev) of the volume: Proceedings of the International Conference “Numerical Computations: Theory and Algorithms”. Pellegrini Editore: Cosenza (Italy), 2013. ISBN: 978-88-6822-032-7, 152 pages.

ORGANIZATION of INTERNATIONAL CONFERENCES

- Chair of the Organizing Committee of the 2nd International Conference and Summer School “Numerical Computations: Theory and Algorithms NUMTA-2016”, Pizzo Calabro (VV), Italy, 19-25 June 2016.
- Chair of the Organizing Committee of the International Conference and Summer School “Numerical Computations: Theory and Algorithms NUMTA-2013”, Falerna (CZ), Italy, 17-23 June 2013.
- Member of the Organizing Committee of the International Workshop “Infinite and Infinitesimal in Mathematics, Computing and Natural Sciences INFINITY-2010”, Cetraro (CS), Italy, 17-21 May 2010.
- Organizer of Special Session on “Black-Box Global Optimization: Fast Algorithms and Engineering Applications” at the XII International Conference on Computational Structures Technology CST2014, Naples, Italy, 2-5 September 2014.
- Member of the Editorial Board of the XII International Conference on Computational Structures Technology CST2014, Naples, Italy, 2-5 September 2014.
- Member of the Scientific Committee of the Joint ORSC/EURO International Conference 2015 on Continuous Optimization, Shanghai, China, 10-12 May 2015.
- Member of the Editorial Board of the XV International Conference on Civil, Structural and Environmental Engineering Computing: Civil-Comp 2015 (CC2015), Prague, Czech Republic, 1-4 September 2015.
- Member of the Organizing Committee of the International Conference and Youth School “High performance computing, optimization and applications”, Nizhny Novgorod, Russia, 16-20 November 2015.
- Member of the Scientific Committee of the 2nd International Conference and Summer School “Numerical Computations: Theory and Algorithms NUMTA-2016”, Pizzo Calabro (VV), Italy, 19-25 June 2016.
- Member of the Scientific Committee of the “14th EUROPT Workshop on Advances in Continuous Optimization”, Warsaw, Poland, 1-2 July 2016.
- Member of the Scientific Committee of the "XIII Global Optimization Workshop", Braga, Portugal, 4-8 September 2016.
- Member of the Organizing Committee of the International Conference and Youth School “High performance computing, optimization and applications”, Nizhny Novgorod, Russia, 7-11 November 2016.
- Member of the Scientific and Organizing Committees of the "11th Learning and Intelligent Optimization Conference”, Nizhny Novgorod, Russia, 19-21 June 2017.
- Member of the Scientific Committee of the “15th EUROPT Workshop on Advances in Continuous Optimization”, Montreal, Canada, 12-14 July 2017.
- Member of the Organizing Committee of the International Conference and Youth School “High performance computing, optimization and applications”, Nizhny Novgorod, Russia, 7-10 September 2017.

- Member of the Scientific Committee of the VIII International Conference "Optimization and Applications", Petrovac, Montenegro, 2-7 October 2017.
- Member of the Scientific Committee of the "12th Learning and Intelligent Optimization Conference", Kalamata, Greece, June 10-15, 2018.
- Member of the Editorial Board of the XIII International Conference on Computational Structures Technology (CST2018), Sitges, Barcelona, Spain, 4-6 September 2018.
- Member of the Scientific Committee of the "16th EUROPT Workshop on Advances in Continuous Optimization", Almería, Spain, 12-13 July 2018.

ACADEMIC DUTIES

- Head of Research Unit of the Italian INdAM Institute for High and Applied Mathematics at the University of Calabria (DIMES), Rende, Italy (since 2014).
- Member of the EUROPT Managing Board, Continuous Optimization working group of the European Operation Research Society (since 2014).
- Member of PhD board in Information and Communication Engineering for Pervasive Intelligent Environments, DIMES, University of Calabria, Rende, Italy (2013-2015).
- Member of PhD board in Computer Science and Engineering, DIMES, University of Calabria, Rende, Italy (2009-2014 and since 2017).

MEMBERSHIP in SCIENTIFIC SOCIETIES

- Member (since 2007) of the Italian Mathematical Union (UMI).
- Member (since 2014) of the Mathematical Optimization Society (MOS).
- Member (since 2015) of the Society for Industrial and Applied Mathematics, USA (SIAM).
- Member (since 2002) of the Italian National Group for Scientific Computations, "F. Severi" National Institute of High Mathematics.

VISITING PERIODS at: Argonne National Lab, USA (07/2017); Cardiff University, UK (11-12/2014); ECRA Group, USA (07/2017); Moscow Institute of Physics and Technology (State University), Russia (11-12/2010); Technical University of Lisbon, Portugal (05/2012); Vilnius University, Lithuania (05/2015, 09/2017).

AWARDS

- "Journal of Global Optimization" (Springer) Best Paper Award 2014 for the paper: Paulavicius R., Sergeyev Y., Kvasov D., Zilinskas J. "Globally-biased DISIMPL algorithm for expensive global optimization", Journal of Global Optimization, 2014, Vol. 59, n. 2-3, pp. 545-567.
- Laureate diploma (together with prof. Ya.D. Sergeyev) of the supercomputing applications and research competition "Computer continuum: From idea to implementation" for the project "High-precision calculations on the Infinity Computer", Intel Corporation and Foundation for Development of the "Skolkovo" Innovation Center, Russia, November 2012.
- Winner of the selection procedures at the University of Calabria for teaching activities in the framework of the Lifelong Learning Program Erasmus STA "Teaching Staff Mobility": (May 2012) Instituto Superior Técnico of the Universidade Técnica de Lisboa (Technical University of Lisbon); (May 2015) Institute of Mathematics and Informatics at Vilnius University.

- MAIK Prize for the best scientific monograph published in 2008 awarded for the book: Sergeyev Ya.D., Kvasov D.E. (2008) Diagonal global optimization methods, Fizmatlit, Moscow, 352 pp. (In Russian). The prize is awarded by the Academic Publishing Holding “Nauka/Interperiodica” in collaboration with the Russian Academy of Sciences and Pleiades Publishing, Inc. (USA), 2009.
- Award of the Russian Foundation of Basic Research for the popular scientific article “Global optimization and the Lipschitz condition”, co-authored with Ya.D. Sergeyev (2008/2009).
- Special mention of the Italian INdAM–SIMAI Committee for the Competition “The Best PhD Thesis in Applied Mathematics defended in 2004–2006” (2007).
- Prize of the Italian Mathematical Union for the Ph.D. Thesis, consisting in a special lecture at the XVIII Congress of the Italian Mathematical Union (Bari–Italy, September 24–29, 2007).
- Winner of a “Young Researchers” grant for one-year (2006) research program “Lipschitzian Global Optimization with Multiextremal Constraints”, assigned by the University of Calabria, Rende(CS), Italy.

SCHOLARSHIPS

- Three-year scholarship (November 2002 – October 2005) for Ph.D. studies in Operations Research, University of Rome “La Sapienza”, Italy.
- The Italian-Russian University scholarship (October 2001 – July 2002) for research in the field of global optimization, University of Calabria (Rende, CS, Italy).
- The Italian-Russian University scholarship (October 2000 – April 2001) for preparing the M.Sc. Thesis at the University of Calabria (Rende, CS, Italy).
- Scholarship of the Administration of the Nizhni Novgorod region, Russia (March 1999 – October 2000) for academic study at the University of Calabria in the frame of the student interchange program “Italian-Russian University” in action between the University of Calabria (Italy) and the “Lobachevsky” State University of Nizhni Novgorod (Russia).

CONFERENCES (6 invited lectures)

1. Participation (July 2017) at the 15th EUROPT Workshop on Advances in Continuous Optimization, Montréal, Canada (presentation of a work).
2. Participation (June 2017) at the 11th Learning and Intelligent OptimizatioN Conference LION 2017, Nizhny Novgorod, Russia.
3. Participation (November 2016) at the International youth school “High performance computing, optimization and applications”, Nizhny Novgorod, Russia (invited lecture).
4. Participation (September 2016) at the International Workshop "Optimization Techniques for Inverse Problems III", Modena, Italia (invited lecture).
5. Participation (August 2016) at the 5th International Conference and Summer School on Continuous Optimization ICCOPT-2016, Tokyo, Japan (special session chair and presentation of a work).
6. Participation (June 2016) at the 2nd International Conference and Summer School "Numerical Computations: Theory and Algorithms NUMTA-2016", Pizzo Calabro (VV), Italy (Chair of the Organizing Committee and member of the Scientific Committee).
7. Participation (February 2016) at the workshop of the Italian National Group for Scientific Computations, “F. Severi” National Institute of High Mathematics, Montecatini, Italy.
8. Participation (July 2015) at the International Conference "13th EUROPT Workshop on Advances in Continuous Optimization", Edinburgh, UK (presentation of a work).

9. Participation (June 2015) at the International Conference "New Trends in Numerical Analysis: Theory, Methods, Algorithms and Applications" NETNA2015, Falerna (CZ), Italy (presentation of a work).
10. Participation (September 2014) at the XII International Conference on Computational Structures Technology CST2014, Naples, Italy (Organizer of the special session "Black-Box Global Optimization: Fast Algorithms and Engineering Applications"; presentation of a work).
11. Participation (August-September 2014) at the XII International Global Optimization Workshop "Mathematical and Applied Global Optimization" MAGO2014, Malaga, Spain (presentation of a work).
12. Participation (June 2014) at the International Conference on Optimization Control and Applications in the Information Age, organized in honor of the 60th birthday of Panos Pardalos, Chalkidiki, Greece (presentation of a work).
13. Participation (December 2013) at the International Workshop on Optimal Decisions in Statistics and Data Analysis, Cardiff, UK (presentation of a work).
14. Participation (July-August 2013) at the 4th International Conference and Summer School on Continuous Optimization ICCOPT-2013, Caparica, Lisbon, Portugal (presentation of a work).
15. Participation (July 2013) at the 26th European Conference on Operational Research EURO 2013, Rome, Italy (presentation of a work).
16. Participation (June 2013) at the Numerical Computations: Theory and Algorithms NUMTA-2013, Falerna (CZ), Italy (Chair of the Organizing Committee, presentation of a work).
17. Participation (November 2012) at the 55th MIPT Scientific Conference "Recent Advances in Basic and Applied Sciences", Moscow-Dolgoprudny, Russia (invited lecture).
18. Participation (September 2012) at the XI International Conference on Computational Structures Technology CST2012 and VIII International Conference on Engineering Computational Technology ECT2012, Dubrovnik, Croatia (presentation of a work).
19. Participation (September 2011) at the XLII Annual Conference of the Italian Operational Research Society AIRO2011, Brescia, Italy (presentation of a work).
20. Participation (June 2011) at the 15th Baikal International School–Seminar on "Optimization methods and their applications", Irkutsk, Russia (presentation of a work).
21. Participation (November 2010) at the 53rd MIPT Scientific Conference "Recent Advances in Basic and Applied Sciences", Moscow-Dolgoprudny, Russia (invited lecture).
22. Participation (September 2010) at the XLI Annual Conference of the Italian Operational Research Society AIRO2010, Santa Trada (RC), Italy (presentation of a work).
23. Participation (August-September 2010) at the Toulouse Global Optimization Workshop TOGO10, Toulouse, France (presentation of a work).
24. Participation (July 2010) at the 24th European Conference on Operational Research EURO XXIV, Lisbon, Portugal (presentation of a work).
25. Participation (July 2010) at the 8th EUROPT Workshop on Advances in Continuous Optimization, Aveiro, Portugal (presentation of a work).
26. Participation (May 2010) at the International Workshop "Infinite and Infinitesimal in Mathematics, Computing, and Natural Sciences INFINITY-2010", Cetraro (CS), Italy (Member of the Organizing Committee, presentation of a work).
27. Participation (September 2009) at the International Conference 'Optimization and Applications' OPTIMA-2009, Petrovac, Montenegro (presentation of a work).
28. Participation (September 2009) at the XL Annual Conference of the Italian Operational Research Society AIRO2009, Siena, Italy (presentation of a work).

29. Participation (July 2009) at the 23rd European Conference on Operational Research EURO XXIII, Bonn, Germany (presentation of a work).
30. Participation (June 2009) at the First World Congress on Global Optimization in Engineering and Science WCGO2009, Changsha-Zhangjiajie, Hunan, Cina.
31. Participation (May 2008) at the 48th Workshop "Nonsmooth Analysis, Optimization and Applications", Erice (TP), Italy.
32. Participation (October 2007) at the 2nd Workshop of the DEIS, UNICAL, Cetraro (CS), Italy.
33. Participation (September 2007) at the XVIII Congress of the Italian Mathematical Union, Bari, Italy (invited lecture).
34. Participation (July 2007) at the 22nd European Conference on Operational Research EURO XXII, Prague, Czech Republic (presentation of a work).
35. Participation (May 2007) at the INdAM-SIMAI Congress "Perspectives on development of the applied mathematics in Italy", Parma, Italy (invited lecture).
36. Participation (September 2005) at the International Workshop on Global Optimization GO05, Almeria, Spain (presentation of a work).
37. Participation (May 2005) at the International Conference "Numerical Analysis: The State of the Art", Rende (CS), Italy (presentation of a work).
38. Participation (August 2004) at the First International Conference on Continuous Optimization ICCOPT-I, Troy (NY), USA (presentation of a work).
39. Participation (July 2004) at the 1st Workshop of the DEIS, UNICAL, Cetraro (CS), Italy.
40. Participation (June 2004) at the 40th Workshop "Large Scale Nonlinear Optimization", Erice (TP), Italy.
41. Participation (May 2004) at the Workshop "High Performance Computing", Cetraro (CS), Italy.
42. Participation (June 2003) at the 4th International Conference on Frontiers in Global Optimization, Santorini, Greece (presentation of a work).
43. Participation (September 2002) at the Italian Congress "Numerical Analysis: The State of the Art", Rende (CS), Italy.

SUMMER/WINTER SCHOOLS

1. Participation (August 2016) at the Summer School before the Fifth International Conference on Continuous Optimization ICCOPT-2016, Tokyo, Japan.
2. Participation (June 2015) at the "Programming GPUs with CUDA" 3-days Course organized by the NVIDIA Education Center UNICAL, Rende(CS), Italy (lecturer: Manuel Ujaldon, Nvidia CUDA Fellow).
3. Participation (July-August 2013) at the Summer School before the Fourth International Conference on Continuous Optimization ICCOPT-2013, Caparica, Lisbon, Portugal.
4. Participation (April 2011) at the "GPU Programming" Advanced Course organized jointly by the CASPUR and CILEA, Segrate, Milan, Italy.
5. Participation (March 2005) at the Winter School "High Performance and Grid Computing", University of Calabria, Rende(CS), Italy.
6. Participation (August 2004) at the Summer School before the First International Conference on Continuous Optimization ICCOPT-I, Troy (NY), USA.
7. Participation (January-February 2004) at the Winter School "Parallel Computing", Nizhni Novgorod "Lobachevsky" University, Nizhni Novgorod, Russia.
8. Participation (July 2003) at the Summer School "Numerical Methods for Local and Global Optimization: Sequential and Parallel Algorithms", Cortona (AR), Italy.
9. Participation (September 2001) at the 10th CINECA Summer School "Parallel Computations", Bologna, Italy.