

# CV



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Research ID: B-4592-2008 (H-Index 17)

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Married, children: son Lev Ryan (2002), daughter Alisa Mary (2011)

Spouse: Dr Aliona Dreglea

## EDUCATION

27/12/2014 Dr. habil.,

Energy Systems Institute / Russian Academy of Sciences, Russia

01/09/1996 – 01/11/1999 PhD

Energy Systems Institute / Russian Academy of Sciences, Russia

01/09/1991 – 30/06/1996 Diploma Specialist in Applied Maths

Irkutsk State University / Russia

Languages: English (fluent), Russian (Native), French (Basic)

## CURRENT POSITIONS

01/05/2018 Professor of Russian Academy of Sciences, PI /

Energy Systems Institute / Russian Academy of Sciences (SB) / Russian Federation (full time)

01/09/2008 Professor, Head of Industrial Mathematics Laboratory, Baikal School of BRICS / Irkutsk

National Research Technical University (part time)

01/09/2007 Professor of Institute of Mathematics, Economics and Computer Sciences /

Irkutsk State University / Russian Federation (part time)

## PREVIOUS POSITIONS

01/07/2019 – 30/07/2019 Visiting Research Professor

School of Mechanical and Aerospace Engineering / QUB / UK

09/2017 – 09/2019 Distinguished Visiting Professor

Hunan University / Changsha / China

01/10/2012 – 27/12/2012 Visiting DAAD Professor

Faculty of Mathematics / Siegen University / Germany

15/09/2009 – 12/02/2012 Vision Engineering R&D Consultant (remote work)

VisionXtreme Pte Ltd / ASTI Holdings / Singapore

01/02/2005 – 30/02/2008 Vision Engineer (remote work)

Microview Technologies Pte Ltd / Singapore

01/09/2003 – 30/09/2004 Postdoctoral Researcher

Heuristique et Diagnostic des Systemes Complexes (Heudiasyc CNRS UMR7253) /

Universit de Technologie de Compi gne / France

01/09/2002 – 30/08/2003 Senior Research Fellow

Energy Systems Institute / Russian Academy of Sciences (SB), Russian Federation  
01/03/2001 – 30/09/2002 Postdoctoral Researcher  
Department of Electrical and Electronic Engineering / Trinity College Dublin / Ireland

#### FELLOWSHIPS AND AWARDS

24/04/2018 - Professor of Russian Academy of Science

01/01/2020 - 2022 BRICS Grant of the Russian Foundation for Basic Research (RFBR) №19-58-80016 jointly with the Department of Science and Technology of India (DST), №CRG/2018/004610, DST/TDT/TDP-011/2017; the Ministry of Science and Technology of the People's Republic of China (MOST), №2018YFE0183600; the National Research Council of Brazil (CNPq), №402849/2019-1; and the National Research Foundation of South Africa (NRF), №BRIC190321424123 (PI)

01/01/2019 – 31/12/2021 International Grant of Russian Foundation of Basic Research jointly with Natural Science Foundation China (with CSU, China) no 19-58-53011 “Nonlinear dynamical models for wind power: storages control and forecasting”.

01/06/2017 - 01/06/2020 Grant of Russian Science Foundation “Creation of a system for collecting, processing and machine analysis of large volumes of data from global navigation satellite systems for the tasks of near-Earth space research”, no 17-77-20005 (with Institute of Solar-Terrestrial Physics SB RAS)

01/01/2015 - 01/01/2018 International Grant of MOST of China on Isolated Power Systems No 2015DFA70850 “Technical Research on Self-healing Monitoring and Control for Isolated Power Systems” (with Hunan University, China).

01/01/2017 - 01/01/2019 Grant of Natural Science Foundation China (with CSU, China) No. 61673398, on wind farms adaptive control.

01/01/2014 – 31/12/2016 Scholarship of Russian Science Foundation. Project on developing an intelligent system to prevent large-scale emergencies in power systems.

01/10/2012 – 27/12/2012 Research Professorship A1200665 (project Numerical Analysis of Singular Integral Equations) / Faculty of Mathematics / Siegen University / Germany / Award received from DAAD / Germany

25/08/2012 – 26/11/2013 Scholarship of the program “Research & Academic Staff of Innovative Russia” 14.B37.21.0365 / Institute of Maths, Economics and Computer Science / Irkutsk State University / Russia

2009 – 2011 Coordinator of UTIA-ISEM SB RAS joint Project Research on dynamic programming, 2009-2011.

2008 -- 2009 Human Capital Foundation Grant, UK, Project Combinatorial optimization of clusters analysis methods in image processing.

2008-2012 Grant of RF Federal Agency for Education, No. 091-08102.

2004 - 2006 NATO Reintegration Grant, in charge of the project Computational and Visual Methods of Identification in Uncertain Environment, No. RIG981276.

2003 Academician Lavrentiev Grant for Young Researchers of Siberian Branch of Russian Academy of Sciences (Project Leader), Novosibirsk, Russia.

2001 - 2002 EU Framework Project BRAVA (Broadcast Restoration through Video Analysis), No. IST-1999-11628, Trinity College Dublin, Ireland.

2000 Group Grant of Russian Foundation for Basic Research (RFBR), (No. 99-01-00116, 02-01-00173), 1999 - 2004, Russia; RFBR Personal Grant.

2000 Russian Federation Presidential Research Grant for Young Researchers in Computer Science and Mathematics, Russia.

1999. Group Grant of Russian Foundation for Basic Research, (No. 99-01-00116), Moscow, Russia

2000. Wilhelm and Else Heraeus grant for research travel, 2001, Lutherstadt Wittenberg, Germany; EU IT Society two grants for research travel, Poland and Spain.

1995 - 1999. Academician Merenkov Grant in the field of Computational Maths; Awards from organizing committee of the annual conferences of young researchers of ISEM SB RAS, approved by Academic Council of Energy Systems Institute of Russian Academy of Sciences, Russia

2013 - 2016 Listed in 30<sup>th</sup> - 33<sup>rd</sup> editions of Marquis Who's Who in the World  
Since 2016 Listed in Marquis Who is Who in Science and Engineering 2016-2020  
2016 Publons Award "Sentinels of Science" in Mathematics  
2017 Publons Award as one of the top 1 per cent of peer reviewers in Multidisciplinary  
2018 Publons (SCI) Award "Sentinels of Science" in Engineering  
2019 Publons (SCI) Award "Top Reviewers" in Cross-Field  
2019 Publons (SCI) Award "Top Reviewers" in Engineering

#### SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

Since 01/09/2007 Number of PhD Students: 6 / Master Students: 19  
Institute of Maths, Economics and Computer Science / Irkutsk State University / Russia  
Institute of High Technologies / Irkutsk National Technical University / Russia

#### TEACHING ACTIVITIES

since 01/09/2007 Professor – Signal Processing, Institute of Mathematics,  
Economics and Informatics / Irkutsk State University / Russia  
since 01/09/2016 Professor in Maths / Baikal Institute of BRICS / Irkutsk National  
Research Technical University / Russia  
01/03/2000 – 1/02/2001 Lecturer – Mathematical Analysis, Institute of Economics,  
Irkutsk State Technical University / Irkutsk / Russian Federation  
01/09/1996 – 20/12/2000 Junior Lecturer – Differential Equations, Faculty of  
Mathematics, Irkutsk State Teachers Training Institute / Irkutsk / Russian Federation

#### ORGANISATION OF SCIENTIFIC MEETINGS

20/06/19 - 23/06/19 International Workshop on Math Modeling of Smart Energy and  
Power Systems, HNU, Changsha / China  
02/08/17 - 6/08/17 Russian-Chinese Workshop "Mathematical Modeling of Renewable  
and Isolated Hybrid Power Systems", Irkutsk / Russia  
30/06/2014 – 06/07/2014 Member of Organizing Committee of 16th Baikal  
International Triannual School-Seminar "Methods of Optimization and Their  
Applications" / 120 participants from 12 countries / Russia  
01/09/2001 – 07/09/2001 Member of Organizing Committee of BRAVA Project  
Meeting / 20 participants / TCD, Dublin, Ireland

#### INSTITUTIONAL & INTL RESPONSIBILITIES

Since 01/01/2017 IEEE PES Russia Chapter Chair  
Since 01/09/2007 Faculty member (part time), Irkutsk State University/ Institute of  
Maths, Economics and Informatics / Russia  
Since 01/09/2012 Postgraduate Students Advisor / National Research Irkutsk State  
Technical University/ Dept. of Computing / Russia  
06/2009, 06/2010, 06/2011, 06/2012, 06/2013 Member of State Examination Board;  
Irkutsk State University/ Institute of Maths, Economics and CS / Russia

#### COMMISSIONS OF TRUST

Reviewer (ref: [publons.com/a/529599](https://publons.com/a/529599)) of 20 Top Journals incl.: Computers & Geosciences, ,  
Advances in Space Research, Mathematical and Computer Modeling, Applied Mathematics and  
Computations, IEEE Transaction on Circuits and Systems, IEEE Transactions on Smart Grids,  
IEEE Access, CSEE Journal of Power and Energy Systems (China), Bulletin of the Malaysian  
Mathematical Sciences Society, Banach Journal of Mathematical Analysis.

Reviewer for Zentralblatt MATH, Mathematical Review of AMS  
Editor-in-Chief of The Journal «Proceedings of Irkutsk State Technical University»,  
Member of Editorial Board of the International Journal of Artificial Intelligence (IJAI, Q1)

Member of Editorial Board of Renewable and Sustainable Energy Reviews (Elsevier, Q1)  
Topic Editor of Mathematics (MDPI, Q1), Member of Editorial Board of Energies (MDPI, Q1),  
Guest Editor of SI on ML 2020/2021

Organiser of mini-symposium Singular Problems and Integral Dynamical Models in Applied  
Mathematics of ICIAM-2015 (Beijing, China)

#### MEMBERSHIPS OF SCIENTIFIC SOCIETIES

IEEE, AMS, SIAM, IEEE PES

#### SELECTED INVITED TALKS

Russian-British Workshop “Uncertainly Quatification in Inverse Modeling”, Institute of  
Computational Mathematics and Mathematical Geophysics of Russian Academy of  
Sciences, 25-27 April 2016, Novosibirsk, Russia

Russian-China Seminar “Technical Research on Self-healing Monitoring and Control for  
Isolated Power Systems”, Hunan University, Changsha, 16 Aug 2015

INVW06 Meeting, Isaac Newton Institute of Mathematical Sciences, 10-14 Feb 2014,  
Cambridge, UK

CEPT Russian-Thai Joint Seminars Organized by Irkutsk State University and  
Chulalongkorn University, 10 Jan 2012, Faculty of Engineering, Chulalongkorn University,  
Bangkok, Thailand

Seminar of Tampere International Center for Signal Processing, TUT, 11 - 17 Nov. 2003,  
Tampere, Finland

Postgrads Seminar on Optimisation Methods, Chalmers University of Technology, 4-9  
Sept. 1999, Goteborg, Sweden

#### BOOKS

Denis Sidorov. Integral Dynamical Models: Singularities, Signals & Control, v. 87, World Scientific  
Series on Nonlinear Science Series A, Edt. Leon O. Chua, World Scientific Publ. Pte Ltd,  
Singapore, 2015.

Denis Sidorov. Toward General Theory of Differential-Operator and Kinetic Models. v. 97, World  
Scientific Series on Nonlinear Science Series A, Edt. Leon O. Chua, World Scientific Publ. Pte Ltd,  
Singapore, 2020 (joint work with N.A.Sidorov and A.V.Sinitsyn).