Scientific Recognition: Advanced Systems Analysis

Invited lectures and presentations

Sergey Aseev
• Moscow, Russia, Workshop dedicated to the memory of Academician A.N. Tikhonov ”Tikhonov readings – 2015”: Existence and boundedness of optimal controls in models of optimal economic growth – 26 October – 2 November 2015
• Suzdal, Russia, Conference on ”Mathematical Control Theory and Mechanics”: On application of optimal control theory to problems in economics – 3-7 July 2015
• Vienna University of Technology, Vienna, Austria, 13th Viennese Workshop on ”Optimal Control and Dynamic Games”: Adjoint variables and intertemporal prices in optimal economic growth problems – 13-16 May 2015

Alexey Davydov
• Maykop, Adygea, Russia, Conference on ”Universities in the search and support of mathematically gifted children and youth scientists”: Stability and its manifestation in nature – 8-10 October 2015
• Centre International de Rencontres Mathématiques, Luminy, France, Conference on ”Real Singularities and Applications”: Generic singularities of parametric optimization and their applications – 16-20 February 2015

Brian Fath
• Hebei University, Baoding, China: Sustainability of ecological and socio-ecological systems – 20 December 2015
• IIASA, Laxenburg, Austria, ”Systems Analysis 2015” Conference: Sustainability of complex systems: Insights from ecological dynamics and systems thinking – 11-13 November 2015
• West University, Timisoara, Romania: Flourishing within the limits – 15 May 2015
• Stockholm, Sweden, ”9th Biennial Conference on Advances in Energy Studies”: Energy network science to assess social and ecological resilience and systemic health: focus on ecosystems, economic systems, and urban metabolism, Keynote presentation – 4-7 May 2015
• Parthenope University, Naples, Italy: Network of networks: analysis of coupled human-environment systems and sustainability assessment – 1 April 2015
• Ispra, Italy, Experts’ round table on ”How practice theory and complex adaptive systems theory can inform future energy conservation policies”: How system thinking approaches and the notion of energy metabolism of urban socioeconomic sectors can inform energy conservation policies – 26-27 February 2015
• Vienna, Austria, ”4th Viennese Talks on Resilience and Networks: The Austrian Road to Resilience”: Science of sustainability, resilience, and cohesion – 28 January 2015
• University of Free State, Bloemfontein, South Africa, SA-YSSP: Systems analysis and holism: Making a science of inter-dependence – 21 January 2015
• Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China: Land use valuation of ecosystem services in Baltimore County, Maryland: Adaptive change along the complex systems cycle – 7 January 2015

Leena Ilmola
• Helsinki, Finland, Finnish Parliament Hearing for the Futures Committee: Key global drivers; uncertainty and resilience requirements – 10-11 November 2015
• Science and Technology Policy Institute (STEPI), Seoul, South Korea, ”International Foresight and Modeling Seminar”: Agent-based modeling as a laboratory for foresight – 22-23 October 2015
• Stockholm University, Stockholm, Sweden, Nordic PhD course in ”Advanced Systems Analysis”: Energy uncertainty, Agent-based Modeling and Korea – 16-17 September 2015
• Center of Theoretical Studies, Prague, Czech Republic, ”Global X-network Conference”: The Taxonomy of Uncertainty – 20 April 2015
Matthias Jonas

- Lviv Polytechnic National University, Lviv, Ukraine: A metric for the prognostic outreach of scenarios: Learning from the past to establish a standard in applied systems analysis – 13 October 2015
- Cracow, Poland, 4th International Workshop on “Uncertainty in Atmospheric Emissions”: A metric for the prognostic outreach of scenarios: Learning from the past to establish a standard in applied systems analysis – 7-9 October 2015

Sebastian Poledna

- IIASA, Laxenburg, Austria, Workshop on “Nordic Systems Analysis”: Systemic Risk Research at IIASA – 10 November 2015

Gerald Silverberg


Nikita Strelkovskii

- Lomonosov Moscow State University, Moscow, Russia, Workshop dedicated to the memory of Academician A.N. Tikhonov “Tikhonov readings – 2015”: On the Guiding Program Package Construction Computational Method for the Guidance Problem with Incomplete Information for Linear Systems. – 26 October-2 November 2015
- Institute of Control Sciences, Russian Academy of Sciences, Moscow, Russia, The Seventh All-Russia Scientific-Practical Conference on “Simulation and its Application in Science and Industry – Simulation. The Theory and Practice”: Integrated Socio-economic Agent-based Model Dream Valley: Case-study of Korea – 21-23 October 2015

Stefan Thurner

- Ca’Foscari University of Venice, Venice, Italy: Understanding human behavior from game worlds – 20-22 December 2015
- Nové Hrady, Czech Republic, “Complexity Colloquium”: General overview of the group’s research fields and results – 10-11 December 2015
- Vienna, Austria, “HIS – CSHV: Get to know each other workshop”: Presentation of research: previous projects, agent based modeling etc. – 9 December 2015
- Zurich, Switzerland, “ETH Risk Center Seminar Series”: Elimination of Systemic Risk in Financial Multilayer Networks – 1 December 2015
- Bonn, Germany, Meeting of the “Fachbeirates der Bundesanstalt für Finanzdienstleistungsaufsicht”: Management systemischer Risiken – 17 November 2015
- Vienna, Austria, conference on “Tage der Personalisierten Medizin 2015”: Biostatistische Herausforderung individualisierter Therapieansätze – 6-7 November 2015
- Turin, Italy, conference on “Challenges in Data Science: a complex systems perspective”: What if you know everything? Lessons on the nature of the Homo sapiens from big online game data – 14-17 October 2015
- Rheinish-Westfälische Technische Hochschule Aachen University, Aachen, Germany, Workshop on “Decisions under uncertainty”: Systemic risk and its management – 21-25 September 2015
- Prague, Czech Republic, “Econophysics Colloquium 2015”: Systemic risk elimination in financial multiplex network – 14-16 September 2015
London, UK, Santa Fe Institute seminar on "Reinventing the Investment Industry": Eliminating Systemic Risk in Financial Markets – 1 September 2015


Barcelona, Spain, "V Summer School on Statistic Physics of Complex and Small Systems": Information theory for complex systems – 6-17 July 2015

Dresden, Germany, Workshop on "Mathematics and Physics of Multilayer Complex Networks": Systemic risk in financial multiplex networks – 5-8 July 2015


Amsterdam, the Netherlands, 10th Tinbergen Institute Conference on "Complexity in Economics and Finance": Elimination of Systemic Risk Through a Systemic Risk Transaction Tax – 18-20 May 2015


University of Veterinary Medicine, Vienna, Austria: Complex Systems – 10 March 2015

Nanyang, Singapore, Para Limes Conference 2015 on "Emerging Patterns": Emergence of a Comprehensive Understanding of Scaling Patterns in Nature – 2-4 March 2015

Nanyang, Singapore, "NTU-Warwick Winter School on Complexity": What is systemic risk in financial markets and how to eliminate it – 23-27 February 2015

Vienna, Austria, Workshop on "(Un)Calculable Conflicts. Complexity, Mathematics und Historical Research": Quantification of humans in virtual worlds – 19 February 2015


St. Gilgen, Austria, Conference on "Taking Innovation from Universities to Markets": Complex Systems Research: Data driven advances and applications – 8-10 January 2015

Federal Financial Supervisory Authority, Bonn, Germany: Nachhaltige Reduzierung des systemischen Risikos mittels Finanztransaktionssteuer – 12 January 2015

London, UK, "CRISIS Final Meeting": Policy experiments with the comprehensive macro-financial model – 9 January 2015

Editorships

Sergey Aseev
- Deputy editor-in-chief, Proceedings of the Steklov Mathematical Institute

Alexey Davydov
- Member, Editorial Board, Journal of Dynamical and Control Systems
- Member, Editorial Board, Izvestia: Mathematics

Yuri Ermoliev
- Member, Editorial Board, Cybernetics and Systems Analysis Journal

Brian Fath
- Editor-in-Chief, Ecological Modelling Journal
- Member, Editorial Board, Ecological Indicators
- Member, Editorial Board, Environmental Accounting and Management
- Member, Editorial Board, Ecological Complexity
- Member, Editorial Board, Ecological Informatics
- Member, Editorial Board, The Scientific World Journal
- Member, Editorial Board, International Journal of Ecodynamics

Matthias Jonas
- Co-editor, Greenhouse Gas Inventories: Expanding Our Uncertainty Perspective book

Tapio Palokangas
- Associate editor, Economics: Open-Access Open-Assessment Journal
Elena Rovenskaya
• Guest co-editor, Special journal issue based on IIASA’s 40th Anniversary Conference, *Technological Forecasting and Social Change*

Gerald Silverberg
• Member, Editorial Board, *Climetrics*
• Member, Editorial Board, *Journal of Economic Behavior and Organization*
• Member, Editorial Board, *Journal of Evolutionary Economics*
• Member, Editorial Board, *Structural Change and Economic Dynamics Journal*

Stefan Thurner
• Member, Editorial Board, *Scientific Reports Journal*
• Associate Editor, *Advances in Complex Systems, World Scientific Journal*
• Member and Advisory, Editorial Board, *Springer Complexity Program*
• Associate Editor, *Physica A Journal*
• Member, Editorial Board, *Condensed Matter Physics Journal*
• Member, Editorial Board, *Frontiers in Fractal Physiology Journal*

Advisory Boards and Committees

Sergey Assev
• Member, Scientific Council of the Research Program of Presidium of Russian Academy of Sciences, Mathematical Problems of Contemporary Control Theory
• Member, Technical Committee on Optimal Control (TC 2.4) of the International Federation of Automatic Control

Alexey Davydov
• Member, Council of Mathematical section of Russian Academy of Sciences
• Co-chair, Organizing Committee, International Conference on Mathematical Control Theory and Mechanics, Suzdal, Russia
• Member, Scientific Committee, International Scientific Conference on Autumn Mathematical Readings in Adygea, Maykop, Russia
• Member, Program Committee, International school for young scientists on Modeling and Control of Complex Systems (MCCS 2015), Suzdal, Russia
• Member, Program Committee, International Conference on Singularities in Generic Geometry and its Applications, Kobe, Japan

Yuri Ermoliev
• Acting Member, National Academy of Sciences, Ukraine
• Member, Committee for Systems Analysis, National Academy of Sciences, Ukraine
• Member, Organizing Committee and Advisory Board, International Conference on Decision Making under Uncertainties

Brian Fath
• Chair, Ecosystem Dynamics, Focus Research Group, Community Surface Dynamics Modelling System
• President, North American Chapter of International Society for Ecological Modelling
• Chair, Baltimore County Commission on Environmental Quality

Leena Ilmola
• Member, Board of the Finnish Futures Society
• Scientific Facilitator, The Global X-network

Matthias Jonas
• Member, Steering Committee, 4th International Workshop on Uncertainty in Atmospheric Emissions

Elena Rovenskaya
• Scientific Co-coordinator and Program Committee Member, Summer Academy on Economic Growth and Governance of Natural Resources (MSA2015), Moscow, Russia
• Vice-Chair, Systems Analysis 2015 Conference, IIASA

Stefan Thurner
• Member, Price Jury, Paul Watzlawik
• Member, Price Committee, Econo-and Sociophysics Young Researcher Award, Deutsche Physikalische Gesellschaft
• Delegate, Management Committee of the Republic of Austria to Snowscape Cost Action Network