

Curriculum Vitae - Constantine Sorokin

Marital Status:

- married, one child

Contacts:

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Education:

- 2001-2006, Student, Computational Mathematics and Cybernetics Faculty, Moscow State University.
- 2006, Graduated from the Moscow State University.
- 2009, Ph.D. in Discrete mathematics and mathematical cybernetics (thesis “Guarantees in multicriteria dynamic problems”).

Experience:

- 2013 (November): Perm State University, visiting Associate Professor for Masters in Finance and Information Technology Program.
- 2013 (March-April): Hebrew University’s Center for the Study of Rationality, visiting researcher.
- 2012 - present: Senior Researcher, Institute of Control Sciences of Russian Academy of Sciences.
- 2011 - present: Senior Researcher, International Laboratory of Decision Choice and Analysis, National Research University “Higher School of Economics”.
- 2009 - present: Associate Professor in the Department of Mathematics at National Research University “Higher School of Economics”.
- 2006 – 2009: Phd student, Computational Mathematics and Cybernetics Faculty, Moscow State University.

Participations in applied projects:

- 2011 - 2012. Development of Moscow suburban transport pricing policy. Joint work with “Erta consulting group”, contract of “Central suburban passenger company”, Moscow.

Participations in educational projects and scientific schools:

- 2013. The 24th Jerusalem Summer School in Economic Theory: Decision Making.
- 2010-2012. Seminar project: “Spatial economics: how geography matters for economics”. Implemented by New Economic School (Moscow) as part of the Regional Seminar for Excellence of Teaching (ReSET) initiative of the Open Society Institute’s Higher Education Support Program.

Work in progress:

- C. Sorokin, A. Zakharov. Model of political competition with correlated random voting -2013.
- C. Sorokin, E. Winter. The role of information in escalation games - 2013.

Publications:

Articles and papers in international peer-reviewed journals:

1. C. Sorokin, A. Zakharov. Policy convergence in a two-candidate probabilistic voting model. *Social choice and welfare*. 2013.
2. M. Dodlova, S. Kiselgof, R. Menyashev, C. Sorokin, E. Khmel'nitskay, E. Chernina. Designing Public Transportation Tariff Scale by Modeling Demand (The Case of Moscow Region Commuter Railway). *Voprosy e'konomiki*, No. 6, June 2013, page(s): 100-119.
3. C. Sorokin. Result-and-risk-guaranteed solution of a multicriteria dynamic problem. // *Automation and Remote Control*, March 2009, Volume 70, Issue 3, pp 457-468.
4. C. Sorokin. Existence of an outcome- and risk-guaranteed solution to a multicriteria problem. // *Moscow University Computational Mathematics and Cybernetics*, 2008. T. 32. No 1. P. 17—24.

Other articles and papers in Russian:

1. C. S. Sorokin. Outcome- and risk-guaranteed solution to a two-criteria dynamic problem. // Collection of articles by young scholars of Computer Sciences Faculty of the Moscow State University, 2005. No 2. P. 63-73.
2. V. I. Zhukovskiy, C. S. Sorokin. Threats and counter-threats equilibrium in one noncooperative 3 persons game. // *Bulletin of the Institute of Mathematics and Informatics UdsU*. 2005. No 2 (32). P. 65-77.

3. V. I. Zhukovskiy, C. S. Sorokin. Risks and outcomes in a multicriteria dynamic problem. // Bulletin of the Institute of Mathematics and Informatics UdSU. 2004. No 2 (30). P. 53-64.

Papers published in the conferences proceedings (and conference participation):

1. C. S. Sorokin. The importance coefficients of a multi-criteria optimization problems // VI All-Russian Conference "Problems of Optimization and Economic Applications": Conference / Omsk Branch of the Institute of Mathematics. Siberian Branch of the Russian Academy of Sciences - Omsk: KAN Printing Center, 2009. P. 191. (in Russian).
2. C. S. Sorokin. Risks in multi-criteria dynamic problems // "Differential Equations and Topology": International Conference dedicated to the Centennial anniversary of L. S. Pontryagin: Abstracts. - Moscow: Publishing Department of Computer Sciences Faculty of the Moscow State University; MAKS Press, 2008. - P. 398. (in Russian).
3. C. S. Sorokin. Existence theorem for a class of multiobjective problems with uncertainty // Equilibrium Models of Economics and Energy: Proceedings of the All-Russian Conference and of Economics and Mathematics section of XIV Baikal International School "Optimization methods and their applications". - Irkutsk: Pub. SEI SB RAS. 2008. P. 270-276. (in Russian).
4. V. I. Zhukovskiy, C. S. Sorokin. Risks in multi-criteria problems. // International congress "Nonlinear dynamical analysis - 2007", dedicated to the 150th anniversary of Academician A. M. Lyapunov. Book of Abstracts. - St. Petersburg: St. Petersburg State University, 2007. - P. 90. (in Russian).
5. C. S. Sorokin. Solution of a multicriteria dynamic problem in view of risk guarantee. // Modern Methods in Qualitative Theory of Boundary Value Problems: Proceedings of Voronezh Spring Mathematical School "Pontryagin readings - XVIII". - Voronezh State University, 2007. - P. 155. (in Russian).
6. C.S. Sorokin. Risks in one multi-criteria control problem under uncertainty. // International conference "Tikhonov and contemporary mathematics", abstracts of session "Functional analysis and differential equations". - Moscow: Publishing Department of Computer Sciences Faculty of the Moscow State University, 2006, P. 265. (in Russian).
7. C. S. Sorokin. Threats and counter-threats equilibrium in one dynamic game // Equilibrium Models of Economics and Energy: Proceedings of the All-Russian Conference and of Economics and Mathematics section of XIII Baikal International School "Optimization methods and their applications". - Irkutsk, Pub. SEI SB RAS. 2005. P. 245-250. (in Russian).

8. C. S. Sorokin. Result-and-risk-guaranteed solution to a two-criteria problems // Automation-2004: Proceedings of the 11th International Conference on Automatic Control. - Kiev National University of Food Technologies. 2004. P. 39. (in Russian).

Conferences participation:

1. C.Sorokin, A.Zakharov. Policy convergence in a two-candidate probabilistic voting model // 11th Meeting of Society for Social Choice and Welfare – New Delhi, India, 2012.
2. C. Sorokin. Strategic delay and optimal contracts for teams // Second Russian economic congress – Suzdal, Russia, 2013.
3. C. Sorokin, E. Winter. Escalation games: Strategic delay and optimal contracts for teams. Euro-Informs 26th European conference on operational research - Rome, Italy, 2013.

Sections in books:

1. C. S. Sorokin. §3.6. Risks in a dynamic systems under conflict of interests: An example. // In: V. I. Zhukovskiy. Conflicts and risks. Moscow: RosZITLP. 2007. P. 417-431.
2. C. S. Sorokin. §3.8. Risks in multi-criteria control problems: Scalar case. // In: V. I. Zhukovskiy, M. E. Salukvadze. Risks and outcomes in multicriteria control problems. Tbilisi: Intelligence. 2004. P. 321-335.

Courses taught in 2009-2013:

1. Optimization and decision theory.
2. Operations research.
3. Game theory.
4. Advanced game theory.
5. Mechanism design.
6. Models of decision making.

Supervision of problem sessions after lectures of Professors Eric Maskin, Shmuel Zamir, Claude d'Aspremont, Eyal Winter.