

ALEXEY ISKAKOV

V.A.Trapeznikov Institute of Control Science, Laboratory of Multiconnected Control Systems
Ul. Profsoyuznaya 65, Moscow 117997, Russia
Tel. (office) +7 495 334 9030, Mob. +7 926 859 2632 - E-MAIL: isk_alex@mail.ru

Employment History:

V.A.Trapeznikov Institute of Control Sciences (Moscow) Senior Researcher, Lab. of Multiconnected Control Systems	2011 – now
Imperial College London (UK) Invited Researcher, Dept. of Physics	2007 – 2008
University of California, Los Angeles (UCLA) Assistant Researcher, Dept. of Physics and Astronomy Postdoctoral Fellow, Dept. of Physics and Astronomy <i>Supervisor:</i> Professor Steven C. Cowley	2006 – 2008 2004 – 2006
Geophysical Institute in Paris (IPGP, France) Postdoctoral Fellow, Laboratory of Geomagnetism <i>Supervisor:</i> Dr. Emmanuel Dormy	2002 – 2004
Institute for Mathematical Modeling RAS (Moscow) Researcher, Dept. of Numerical Methods in Fluid Mechanics <i>Supervisor:</i> Professor V.F.Tishkin	2000 – 2002

Education:

Institute for Mathematical Modeling RAS (Moscow) Ph.D. in Physics and Math, Specialty: Mathematical simulation, numerical methods and program complexes.	1996 - 1999
Moscow Institute of Physics and Technology (MIPT) Faculty of Management and Applied Mathematics M.S. in Applied Physics and Math, Qualification: engineer mathematician	1990 - 1996

Other Positions:

2012, 2014 – visit-researcher at Université Catholique de Louvain, Center for Operations Research and Econometrics (UCL, CORE, Louvain-la-Neuve, Belgium)
2010 – visit-researcher at Oxford University, R.Peierls Centre for Theoretical Phys. (Oxford, UK)
2008, 2007, 2005 – visit-researcher at Imperial College London, Dept.of Phys. (IC, London, UK)
2007, 2005 – professeur invités at Université Paris Diderot – Paris VII (Paris, France)
2007 – invited researcher at Wolfgang Pauli Institute (WPI, Austria, Vienna)
1999 - 2001 – engineer at Czech Technical University in Prague (Czech Republic, Prague)

Experience and Accomplishments:

- 24 papers in journals Q1/Q2 SJR (incl., *Int. J. Robust Nonlin.*, *Phys. Rev. Lett.*, *J. Comput. Phys.*, *Control Eng. Practice*, *Games Econ. Behavior*)
- In Web of Science: 39 papers, > 500 citations, h-index = 11
<http://www.researcherid.com/rid/T-9199-2017>
- In Google Scholar: > 900 citations, h-index = 15
<http://scholar.google.com/citations?user=Zu5udjEAAA&hl=en&oi=ao>
- >85 papers and preprints, including 35 conference proceedings papers
- >20 grants/fellowships
- Review experience: *Automatica*, *Int. J. Robust Nonlin.*, *IET Control Theory Appl.*, etc.
<https://publons.com/author/1216834/a-b-iskakov#profile>

Papers indexed in Q1/Q2 SJR (Web of Science):

1. Yadykin I.B., Iskakov A.B., **A Comparison of Sub-Gramian Analysis with Eigenvalue Analysis for Stability Estimation of Large Dynamical Systems**, *Automation and Remote Control* **79**(10), 1767-1779 (2018)
(Q2 SJR 2017; IF JCR 2017 = 0.562)
<https://link.springer.com/article/10.1134/S000511791810003X>
2. Iskakov M., Iskakov A., d'Aspremont C., **Games for cautious players: The Equilibrium in Secure Strategies**, *Games and Economic Behavior* **110**, 58-70 (2018)
(Q1 SJR 2017; IF JCR 2017 = 0.878)
<https://www.sciencedirect.com/science/article/pii/S0899825618300423>
3. Iskakov A.B., **Integral Solution of Linear Multi-Term Matrix Equation and Its Spectral Decompositions**, *Doklady Mathematics* **97**(2), 193-196 (2018)
(Q2 SJR 2017; IF JCR 2017 = 0.534)
<https://link.springer.com/article/10.1134/S1064562418020187>
4. Iskakov A.B., Iskakov M.B., **Chain Equilibria in Secure Strategies**, *Automation and Remote Control* **78**(6), 1159-1172 (2017)
(Q2 SJR 2017; IF JCR 2017 = 0.562)
<https://link.springer.com/article/10.1134/S0005117917060169>
5. Yadykin I.B., Iskakov A.B., **Spectral Decompositions for the Solutions of Sylvester, Lyapunov, and Krein Equations**, *Doklady Mathematics* **95**(1), 103-107 (2017)
(Q2 SJR 2016; IF JCR 2017 = 0.534)
<https://link.springer.com/article/10.1134/S1064562417010173>
6. Yadykin I.B., Kataev D.E., Iskakov A.B., Shipilov V.K., **Characterization of power systems near their stability boundary using the sub-Gramian method**, *Control Engineering Practice* **53**, 173-183 (2016)
(Q1 SJR 2016; IF JCR 2017 = 2.616)
<http://www.sciencedirect.com/science/article/pii/S0967066115300253>
7. Iskakov A.B., Iskakov M.B., **Equilibria in Secure Strategies in the Bertrand-Edgeworth Duopoly**, *Automation and Remote Control* **77**(12), 2239-2248 (2016)
(Q2 SJR 2016; IF JCR 2017 = 0.562)
<https://link.springer.com/article/10.1134/S0005117916120122>
8. Iskakov M.B., Iskakov A.B., **Equilibrium Contained by Counter-Threats and Complex Equilibrium in Secure Strategies**, *Automation and Remote Control* **77**(3), 495-509 (2016)
(Q2 SJR 2016; IF JCR 2017 = 0.562)
<http://link.springer.com/article/10.1134/S0005117916030115>
9. Yadykin I.B., Iskakov A.B., **Energy Approach to Stability Analysis of the Linear Stationary Dynamic Systems**, *Automation and Remote Control* **77**(12), 2132-2149 (2016)
(Q2 SJR 2016; IF JCR 2017 = 0.562)

<https://link.springer.com/article/10.1134/S0005117916120043>

10. Yadykin I.B., Iskakov A.B., Akhmetzyanov A.V.,
Stability analysis of large-scale dynamical systems by sub-Gramian approach,
Int. J. Robust Nonlin. Control **24** (8-9), 1361-1379 (2014)
(Q1 SJR 2014; IF JCR 2017 = 3.856)
<http://onlinelibrary.wiley.com/doi/10.1002/rnc.3116/abstract>
11. Iskakov M., Iskakov A., **Solution of the Hotelling's game in secure strategies,**
Econ. Lett. **117** (1), 115-118 (2012)
(Q1 SJR 2012; IF JCR 2017 = 0.581)
<http://www.sciencedirect.com/science/article/pii/S0165176512002388>
12. Gissinger G., Iskakov A., Fauve S., Dormy E., **Effect of magnetic boundary conditions on the dynamo threshold of von Kármán swirling flows,**
Europhys. Lett. **82**, 29001 (2008)
(Q1 SJR 2008; IF JCR 2017 = 1.834)
<http://iopscience.iop.org/article/10.1209/0295-5075/82/29001>
13. Yousef T.A., Heinemann T., Schekochihin A.A., Kleeorin N., Rogachevskii I., Iskakov A.B., Cowley S.C., and McWilliams J.C.,
Generation of magnetic field by combined action of turbulence and shear,
Phys. Rev. Lett. **100**, 184501 (2008)
(Q1 SJR 2008; IF JCR 2017 = 8.839)
<https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.100.184501>
14. Iskakov A.B., Schekochihin A.A., Cowley S.C., McWilliams J.C., Proctor M.R.E.,
Numerical demonstration of fluctuation dynamo at low magnetic Prandtl numbers,
Phys. Rev. Lett. **98**, 208501 (2007)
(Q1 SJR 2007; IF JCR 2017 = 8.839)
<https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.98.208501>
15. Schekochihin A.A., Iskakov A.B., Cowley S.C., McWilliams J.C., Proctor M.R.E., Yousef T.A.,
Fluctuation dynamo and turbulent induction at low magnetic Prandtl numbers,
New J. Phys. **9**, 300 (2007) [invited article for the *Focus Issue on Magnetohydrodynamics and the Dynamo Problem*]
(Q1 SJR 2007; IF JCR 2017 = 3.579)
<http://iopscience.iop.org/article/10.1088/1367-2630/9/8/300/meta>
16. Iskakov A. and Dormy E.,
On magnetic boundary conditions for non-spectral dynamo simulations,
Geophys. Astro. Fluid **99** (6), 481-492 (2005)
(Q2 SJR 2005; IF JCR 2017 = 1.417)
<http://www.tandfonline.com/doi/abs/10.1080/03091920500337145>
17. Iskakov A.B., Descombes S., Dormy E.,
An integro-differential formulation for magnetic induction in bounded domains: Boundary Element - Finite Volume method,
J. Comput. Phys. **197** (2), 540-554 (2004)
(Q1 SJR 2004; IF JCR 2017 = 2.864)
<http://www.sciencedirect.com/science/article/pii/S002199910300651X?via%3Dihub>

18. Lebo I.G., Demchenko N.N., Iskakov A.B., Limpouch J., Rozanov V.B., and Tishkin V.F.,
Simulation of high-intensity laser-plasma interactions by use of the 2D Lagrangian code “ATLANT-HE”,
Laser Part. Beams **22**, 267-273 (2004)
(Q2 SJR 2004; IF JCR 2017 = 1.272)
<https://doi.org/10.1017/S0263034604223096>
19. Limpouch J., Iskakov A.B., Masek K., Rohlena K., Lebo I.G., and Tishkin V.F.,
Transverse structures in corona of non-uniformly irradiated solid targets,
Laser Part. Beams **20**, part 1, 93-100 (2002)
(Q2 SJR 2002; IF JCR 2017 = 1.272)
<https://doi.org/10.1017/S0263034602201135>
20. Andreev A.A., Limpouch J., Iskakov A.B., Nakano H.,
Enhancement of x-ray line emission from plasmas produced by short high-intensity laser double pulses,
Phys. Rev. E **65** (2), 026403 (2002)
(Q1 SJR 2002; IF JCR 2017 = 2.284)
<https://journals.aps.org/pre/abstract/10.1103/PhysRevE.65.026403>
21. Iskakov A.B., Lebo I.G., Rozanov V.B., Tishkin V.F.,
On the neutron yield in two-beams scheme of laser heating and compression of spherical shell targets with a low density coating,
J. Russ. Laser Res., **22** (1), 82-89 (2001)
(Q2 SJR 2001; IF JCR 2016 = 0.553)
<https://link.springer.com/article/10.1023%2FA%3A1009555729261>
22. Iskakov A.B., Lebo I.G., and Tishkin V.F.,
2D Numerical Simulation of the Interaction of High-Power Laser Pulses with Plane Targets Using the “ATLANT-C” Lagrangian Code,
J. Russ. Laser Res., **21** (3), 247-263 (2000)
(Q2 SJR 2001; IF JCR 2016 = 0.553)
<https://link.springer.com/article/10.1007%2F02508951>
23. Iskakov A.B., Tishkin V.F., Lebo I.G., Limpouch J., Masek K., and Rohlena K.,
Two-dimensional model of thermal smoothing of laser imprint in a double-pulse plasma,
Phys. Rev. E, **61** (1), 842-847 (2000)
(Q1 SJR 2000; IF JCR 2017 = 2.284)
<https://journals.aps.org/pre/abstract/10.1103/PhysRevE.61.842>
24. Lebo I.G., Iskakov A.B., Limpouch J., Mashek K., Rohlena K., and Tishkin V.F.,
2D Modeling of thermal smoothing of laser imprint in a double-pulse plasma,
Laser Part. Beams, **17** (4), 759-793 (1999)
(Q2 SJR 1999; IF JCR 2017 = 1.272)
<https://www.cambridge.org/core/journals/laser-and-particle-beams/article/2d-modeling-of-thermal-smoothing-of-laser-imprint-in-a-doublepulse-plasma/B6F68F32DF444BEC26C9112174CB8F98>