

Curriculum vitae

Personal Data

Name: Yurii Averboukh

Date of birth: 01.06.1981

Citizenship: Russia

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Affiliation: Institute of Mathematics and Mechanics UrB RAS, 620219 Ekaterinburg, Russia.

Education

1998-2002: Bachelor of Science in Mathematics, Department of High-Performance Computing, Ural State University, Ekaterinburg, Russia. Diploma summa cum laude

2002-2004: Master of Science in Mathematics, Department of High-Performance Computing, Ural State University, Ekaterinburg, Russia. Diploma summa cum laude

2004-2007: Doctor of Philosophy in Mathematics, Institute of Mathematics and Mechanics UrB RAS, Ekaterinburg, Russia.

Theme of PhD theses: «Some questions of the structure of game-theoretical problem solution».

Adviser: member-correspondent of RAS A.G. Chentsov.

Long term positions:

2001-2004: Programmer, Department of Differential Equations, Institute of Mathematics and Mechanics UrB RAS, Ekaterinburg, Russia.

2004-2008: Younger Researcher, Department of Controlled Systems, Institute of Mathematics and Mechanics UrB RAS, Ekaterinburg, Russia.

2008-now: Associate Professor, Ural Federal University, Ekaterinburg, Russia

2008-now: Senior Researcher, Department of Controlled Systems, Institute of Mathematics and Mechanics UrB RAS, Ekaterinburg, Russia.

Awards

2005: Sverdlovsk Region Goverener Award for PhD students.

2006: Russian Science Supporting Foundation Award for PhD students.

2010: Russian President Grant for Young Scientists

Research Interests

differential games, control theory, nonsmooth analysis.

Selected Publications

1. Averboukh Yu., Chentsov, A. On Character of the Programmed Iteration Method for Control Problem with Elements of Uncertainty // Functional Differential Equations, 2007, V. 14, N. 1, Pp 21—46.
2. Averbukh Yu. V., On an Approximate Analog of the Extremal Shift Rule // Differential Equations, 2007, V. 43 N. 8, Pp. 1033-1041.
3. Averbukh Yu., On a structure of positional absorption set in the Game problem of pointing at a Target // Journal of Automation and Information Sciences, 2006, No 5,

- Pp. 1-5.
4. Averboukh Yu.V., A Transformation of the Control inder Uncertainty Problems // Functional Differential Equations 2009, V. 16, No 1, Pp 123--135 .
 5. Averboukh Yu., Geometric properties of successful solvability sets in pursuit game problems // Proceedings of the Steklov Institute of Mathematics, V. 262, N. 1-2, Pp. 2—9.
 6. Averboukh Yu., On a certain method for constructing a conflict-control system with given properties // Journal of Mathematical Sciences, 2009, V. 157, N. 3, Pages 424-432
 7. Averboukh Yu. Differential games with a given value function // Proceedings of the Steklov Institute of Mathematics, 2009, V. 266, Suppl. 1, Pp. 40-55
 8. Averboukh Yu. On the problem of guidance of an autonomous conflict-controlled system onto a cylinder set // Cybernetics and Systems Analysis, 2008, V. 44, N. 5, Pp. 729-737
 9. Averboukh Yu. On a Structure of the Set of Differential Games Values // Annals of the International Society of Dynamic Games, V. 11, Advances in Dynamic Games Theory, Applications, and Numerical Methods for Differential and Stochastic Games. 2011, Pp. 3 —24.
 10. Averboukh Yu., Infinitesimal characterization of feedback Nash equilibrium // Tr. Inst. Mat. Mekh., V. 16, N. 1, 2010, Pp. 3–14.
 11. Yu. V. Averboukh. Nonanticipative strategies for n-person nonzero-sum differential games // Functional differential equations, 18, N 1-2, 2011, Pp 65—72.
 12. Averboukh Yu. Nash equilibrium in differential games and the construction of the programmed iteration method // Mat. Sbornik, 202:5 (2011), 3–28

Selected Conferences

Eighth International ISDG Workshop , Padova, Italy, July 21-23, 2011

International Conference on Mathematical Control Theory and Mechanics,
Suzdal, Russia, July 1 - 5, 2011

International Conference on Differential Equations and Dynamical Systems, Suzdal,
Russia, July 2-7, 2010

14-th International Symposium on Dynamic Games and Applications, Banff, Canada,
June 19 - 23, 2010

International Conference on Mathematical Control Theory and Mechanics,
Suzdal, Russia, July 3 - 7, 2009

The International Conference on Game Theory and Management, St. Petersburg,
Russia, June 24-26, 2009

IFAC Workshop on Control Applications of Optimization, Jyväskylä, Finland, May 6-9, 2009.

International Conference on Differential Equations and Dynamical Systems, Suzdal
Russia, June 27 – July 3, 2008

13-th International Symposium on Dynamic Games and Applications, Wroclaw,
Poland, 30th June-3rd July, 2008

International conference “Differential Equations and Topology” , Moscow, Russia, June, 17-22, 2008.

International Conference on Mathematical Control Theory and Mechanics, Suzdal, Russia, June 22 - 27, 2007

International Conference on Differential Equations and Dynamical Systems, Suzdal, Russia July 10 - 15, 2006

Dynamical Systems Modelling and Stability Investigation, Kiev, Ukraine, May 22-25, 2007.