

CURRICULUM VITAE (August 2016)

Vladimir Alexander GURVICH

Education

Ph D, Moscow Institute of Physics and Technology, Graduate School, 1978.
Major: Applied Mathematics
Thesis Title: Applications of Boolean functions and networks in game theory.

MS, Moscow Institute of Physics and Technology, 1975.
Major: Applied Math (Honors Diploma)
Diploma Work Title: Nash-solvability in pure strategies.

Professional Positions:

Positions in the USSR and Russia:

Leading Researcher; February 2016 - Present.
National Research University Higher School of Economics (HSE), Moscow;
Division of Computer Sciences, Dep. of Large Data Sets and Data Mining,
International Laboratory of Theoretical Informatics.

Leading researcher, 1990-2012;
International Inst. of Earthquake Prediction Theory and Math. Geophysics,
Russian Academy of Sciences, Moscow,

Senior researcher, 1982-1989;
Institute of Earth Physics, USSR Academy of Sciences, Moscow.

Researcher, 1978-1982.
Institute of Earth Physics, USSR Academy of Sciences, Moscow.

Positions at Rutgers, the State University of New Jersey, USA:

Professor of Applied Mathematics; January 1993 - 1995 and 1999 - present;
Rutgers Center for Operations Research (RUTCOR);

Instructor; September 2014 - present;
Rutgers Business School (RBS);
Dep. of Management Science & Information Systems (MSIS).

Center for Discrete Math. and Theoretical Computer Science (DIMACS),
Permanent Member 2004 - present.

Short term visiting positions; 1995 - present:

Visiting Professor, March - June, 2009;
University of Pierre and Marie Curie, Paris 6, France.

Visiting Researcher; March - June, 2009.
INRIA, Ecole Polytechnique, Paris, France.

Visiting Researcher; Jan. and July - Aug. 2006; Dec. 2002-2005, 2008-2015.

Dep. of Mathematics University of Osaka (2002-3); Dep. of Math. Informatics, Graduate School of Information and Technology, Univ. of Tokyo (2004-2012) and Research Institute for Math. Sciences (RIMS) Kyoto (2013-15); Japan.

Visiting Researcher, May 2012, 2013, Jan. 2014;
Dep. of Informatics, Primorska University, Koper, Slovenia.

Visiting Researcher and Lecturer, May - September, 2008;
Center for Algorithmic Game Theory, DAIMI, Aarhus University, Denmark.

Visiting Researcher, May - Sep. 2005;
Dep. of Data Bases and Art. Intelligence (DBAI) Technical Univ. of Vienna.

Visiting Researcher, Nov. 1998 - Jan. 1999;
Institute of Informatics, Humboldt University of Berlin, Germany.

Visiting Researcher, June - Sep. 1998;
Univ. Joseph Fourier, Institute IMAG, Leibniz Lab., Grenoble, France.

Visiting Researcher, November, 1996 - May 1997.
Dep. of Applied Mathematics, University of Twente, Enschede, Netherlands.

Visiting Researcher, March - June 1996;
Center for Rationality and Interactive Decision Theory and Dep. of Math., The Hebrew University of Jerusalem, Israel.

Visiting Professor, Oct. 1995 - Feb. 1996.
Dep. of Math., The Technion, Israel Inst. of Technology. Haifa, Israel.

Publications

More than 200 papers in refereed journals; 25 in 2010 - 2015; one book (1992) and one chapter of a book (2011); more than 50 talks in international conferences with published extended abstracts (10-12 pages) in Lecture Notes of Computer Science (LNCS) and other proceedings.

Adviser of post-doctoral fellows

Khaled Elbassioni (2003-2005; supported by NSF grant IIS-0118635 on Identification of threshold, regular, and submodular monotone systems: theory and algorithms; jointly advised with E.Boros and L.Khachiyan).

Adviser of Ph.D. students

Vladimir Oudalov. PhD, November 20th, 2012, at RUTCOR; Thesis title: Two new computer based results in game theory related to combinatorial games and Nash equilibria.

Konrad Borys (Ph.D., 2006, at RUTCOR, Thesis title: Vertex generation and cut conjunction in graphs; jointly advised with E.Boros and Leonid Khachiyan.

Ying Liu (Ph.D, 2003, at RUTCOR, Thesis title: Combinatorial box-partitioning, box packing, and their applications; jointly advised with E.Boros.

Adviser of undergraduate students

DIMACS summer research program for undergraduate students (REU):

Bianca Viray, 2004; Tatyana Negoda, 2003;
Steven Jaslars, DIMACS, 2002, 2003 and Daniel Krasner, 2002, 2003;
Ricardo Collado, 2001 (jointly advised with E.Boros).

Editorship and related activities

Member of the Advisory Board: Business-Informatics, since 2013;
Area Editor: Game Theory in Discrete Applied Mathematics, since 2010;
Guest editor (with Endre Boros) of the special issue of Discrete Applied Mathematics (156:11) dedicated to the memory of Leonid Khachiyan;
Reviewer for 7 professional journals in Applied Mathematics.

Other Professional activities

Permanent member of DIMACS since 2004;
Organizer of DIMACS workshop dedicated to the memory of Leonid Khachiyan March 9-10, 2009 (co-organizers: Endre Boros and Michael Grigoriadis);
Served as a member of 17 Ph.D. defense committees at Rutgers University: Department of Mathematics, RUTCOR, and RBS.

Teaching Experience; Courses Taught:

Elements of game theory, undergraduate course, November-December 2016; Dep. of Computer Science, Higher School of Economics;

Methods of Business Statistics, undergraduate course, Spring 2016; MSIS, Rutgers Business School;

Game theory, graduate course, Fall 2001 - 2008, RUTCOR, Rutgers Univ.;

Linear optimization, undergraduate course, Spring 2002 - 2006 and 2008; RUTCOR and Department of Mathematics, Rutgers University;

Games, graphs, and Boolean functions, Graduate course, March-May, 2009, University of Pierre and Marie Curie, Paris 6, France;

Boolean functions, graduate course, Spring 2007, RUTCOR, Rutgers Univ.;

The Berge-Duchet conjecture; a game theoretic proof, graduate seminar, Spring 1999, Independent University of Moscow, Russia;

Perfect graphs and cooperative games, graduate course, 1995, Department of Mathematics, Technion, Haifa, Israel;

Calculus, Linear Algebra, and Probability Theory, undergraduate classes, recitations, 1976 - 1978, Department of Mathematics, Moscow Institute of Physics and Technology, USSR.