







PERSONAL INFORMATION

Dmitrii Lozovanu



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-  Skype

Sex :Male | Date of birth 08/11/1948 | Nationality : rep Moldova

SCIENTIFIC TITLE AND DEGREES:

- 1996-** Professor;
- 1991-** Doctor of Physical and Mathematical Sciences (Dr. hab), Kyiv State University, Ukraine, *Discrete and continuous methods for solving extremal-combinatorial problems* (in Russian).
- 1980-** Candidate of Physical and Mathematical Sciences (PhD), “V.M. Glushkov” Institute of Cybernetics, *Algorithms for determining the optimal configurations and sources in networks* (in Russian).

WORK EXPERIENCE:

- 2010 May/ 2010 – now Principal research worker of the Department of Mathematical Modeling, Institute of Mathematics and CS of Moldova Academy of Sciences;
- May/1996 – Head of the Department Applied Mathematics, Institute of Mathematics and CS of Moldova Academy of Sciences;
- Jan./1993 - 1996 Principal research worker of the Department of Mathematical Modeling, Institute of Mathematics and CS of Moldova Academy of Sciences;
- Oct./1983 - 1993 Senior researcher, Institute of Mathematics and CS of Moldova Academy of Sciences;
- Jan./1980 - 1983 Researcher, Institute of Mathematics and CS of Moldova Academy of Sciences;
- Dec./1976 – 1980 Ph student, Institute of Mathematics and CS of Moldova Academy of Sciences;
- Nov./1974 - 1976 Military service;
- Aug./1970 - 1974 Junior researcher, Institute of Mathematics and CS of Moldova Academy of Sciences;

EDUCATION AND TRAINING:

1970- Master of Sciences in Mathematics, Moldova State University.
 1987-1988 Research studies at the Computer Center of Academy of Science of USSR .

SCIENTIFIC INTERESTS:

Linear and nonlinear programming, Discrete and combinatorial optimization, Game and Control Theory, Stochastic Dynamic Programming, Stochastic games.

TEACHING EXPERIENCE:

Professor, Dr. hab.; Moldova State University, faculty of mathematics and informatics: *Linear and Nonlinear l programming, Game Theory, Graph Theory, Stochastic Dynamic Programming*

Academy of Economic Study: *Linear Programming, Mathematical Modeling.*

Organisational / managerial skills ▪ leadership (currently responsible for a team of 12 peoples)

Mother tongue(s) Romanian

Other languages:

		SELF-ASSESSMENT				
		Information processing	Communication	Content creation	Safety	Problem solving
English		A2I	B2	B2	B2	B2
Russian		C2	C2	C2	C2	C@

Selected publications related to Game Theory:

1. Lozovanu D. Stationary Nash equilibria for average stochastic positional games. *Chapter 9 in the book: Frontiers of Dynamic Games (eds: Peterosyan L., Mazalov V.), Springer, 2018 p.139-165.*
2. Lozovanu D., Pickl S. Nash equilibria in mixed stationary strategies for m -player mean payoff games on networks. *Contributions to Game Theory and Management., St. Petersburg University, v 11, 2018 103-113.*
3. . Lozovanu D. Stationary Nash equilibria for average stochastic games with finite state and action spaces. *Buletinul AŞM, seria Matematica, 2016, 2(81), 71-92. ISSN 1024-7696.*
4. .Lozovanu D., Pickl S. Optimization of Stochastic Discrete Systems and Control on Complex Networks. *Springer, 2015, 400 p (Monograph).*
5. Lozovanu D., Pickl S. Determining the optimal strategies for discrete control problems on stochastic networks with discounted costs. *Discrete Applied Mathematics, 182, 2015, pp. 169-180.*
6. Lozovanu D. The game theoretical approach to Markov decision problems and determining Nash equilibria for stochastic positional games. *Int. J. Mathematical Modelling and Numerical Optimization. 2(2), 2011, pp. 162—174.*
7. Lozovanu D., Pickl S. Discrete Control and Algorithms for Solving Antagonistic Dynamic Games on Networks. *Optimization Journal, 58(6), 2009, 665-685.*
8. Lozovanu D. Pickl S. Algorithms and the calculation on Nash equilibria for multi-objective control of time-discrete systems and polynomial-time algorithms for dynamic c-games on networks. *European Journal of Operational Research, 181(3), 2007, pp. 1214-1232.*
9. Lozovanu D., Pickl S. Optimization and Multiobjective Control of Time-Discrete Systems *Springer. 2009, 300p (Monograph).*
10. Lozovanu D. Network models of discrete optimal control and dynamic games with p players. *Discrete mathematics and applications, 13(4), 2001, 126-143.*
11. R. Boliac, D. Lozovanu, D. Solomon. Optimal paths in network games with p players. *Discrete Applied Mathematics 99 (1-3) 2000, p. 339-348*

Total publications:

2010 publications, Including 6 monograph.

Projects
(selected items):

2015 – 2016 Modeling of stochastic dynamic systems and algorithms for solving Markov decision problems, PI, Bilateral grant program Moldova Academy of Sciences - STCU .
 2014 – 2016 Methods and algorithms for solving deterministic and stochastic optimization problems. PI, Funded by Moldova Academy of Sciences.
 2013 -2014 Stochastic dynamic models and approaches for solving Markov decision problems, PI, Funded by Moldova Academy of Sciences.
 2012-2014 Numerical methods and algorithms for solving stochastic dynamic decision problems. Bilateral grant program: Moldova Academy of Sciences – BBMBF(Germany).
 2010-2011 Methods for solving optimization problems on networks with applications, funded by , funded by Moldova Academy of Sciences and Belorussian Fondation for Basic Research
 2009-2010. Methods and algorithms for solving complex control problems, PI, funded by Moldova Academy of Sciences and Russian Foundation for Basic Research.
 2009 – 2010 Decision support and algorithmic decision on a multilayered grid structure within the communication network CENETIX : Bilateral grant program Moldova –BBMBF(Germany)
 2009 – 2010 Decision support and algorithmic decision on a multilayered grid structure within the communication network CENETIX : Bilateral grant program Moldova –BBMBF(Germany)
 2006-2009 Bilateral grant program CRDF(USA) – MRDA(Moldova),
 Award CERIM-1006-06: Computer Science and Information Technology.

Honours and awards

1998 - National Prize of Moldova in Sciences (1998); 2003 - Best Paper Award at the Symposium “Computing Systems, Discrete Models, Algorithm, Simulation, Information Systems, Networks” to the contribution “Optimization, Monotonicity and the Determination of Nash Equilibria – An Algorithmic Analysis”, CASYS’03 Liege, Belgium, August 11-16, 2003; 2004 - Annual National Award for the best mathematician of the country of Moldova (laureate of prize “Academician Sibirsky”); 2005 - Moldovan Academy of Sciences Award (2005, 2009, 2017); 2003-2007 - Member of Council of Scientists INTAS, 2009 - Annual National Award for the best scientist of the year (Award of Moldova Academy of Sciences); Member of Mathematical Society of Republic of Moldova; Editor-in-Chief of journal “The Bulletin of Academy of Sciences of Moldova, ser. Mathematics”; Member of editorial board of journal “Computer Science Journal of Moldova”.