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LELA ALKHAZISHVILI

Experience

2013-up to now -Ivane Javakhishvili Tbilisi State University, Faculty of Exact and Natural Sciences, Department of Computer Sciences, Associate Professor.

2012- 2013 Ivane Javakhishvili Tbilisi State University, Faculty of Exact and Natural Sciences, Department of Computer Sciences, Specialist.

2006-2012 Ivane Javakhishvili Tbilisi State University, Faculty of Exact and Natural Sciences, Department of Computer Sciences, Associate Professor.

1995-2006 Ivane Javakhishvili Tbilisi State University, Faculty of Applied Mathematics and Computer Sciences, Chair of Control Theory, Assistant.

1990-1995 Ivane Javakhishvili Tbilisi State University, Faculty of Cybernetics and Applied Mathematics, Chair of Control Theory, Junior Researcher.

Education

1981-1986 Master's degree (equal) in Mathematics - Mathematical software. Ivane Javakhishvili Tbilisi State University, Faculty of Cybernetics and Applied Mathematics.

2004 Candidate of Physical and Mathematical Sciences - Ordinary Differential Equations. Ivane Javakhishvili Tbilisi State University. (Ph.D. in Mathematics, #004314)

Research Interests

1. Optimal problems with delays.
2. Mathematical modelling of processes.
3. Evolutionary algorithms.

Teaching Courses

Basics of Programming
Methods of Optimization
The System of Computer Mathematics MATHCAD
Mathematical Programming
Operations Research
Fundamental Algorithms
Algorithms and Data Structures
Design of Algorithms

Selected Publications

1. Necessary conditions of extremality of initial moment for one class variation problem with delay argument. *Proc. Javakhishvili TSU, Appl. Math. And Inf.* 342(20) 2000, 5-8.(with T Tadumadze)
2. About local representations of the variation of solutions for one class controlled system with delays. *Rep. Enlarged Sess.Semin. I. Vekua Inst. Appl. Math.* 15(2000), No. 1-3, 37-39.
3. ,The formulas of variation of the solution for one class controlled system with delays and with continuous initial condition. *Rep. Enlarged Sess.Semin. I. Vekua Inst. Appl. Math.* 17(2002), No. 17, 26-29.
4. Necessary conditions of optimality for optimal problems with delays and with a discontinuous initial condition. *Mem. Differential Equations Math. Phys*, 22(2001),154-158. (with T. Tadumadze) http://www.rmi.ge/jeomj/memoirs/
5. Formulas of variation of solution for non-linear controlled delay differential equations with discontinuous initial condition. *Mem. Differential Equations Math. Phys*, 29(2003),125-150. (with T. Tadumadze) http://www.rmi.ge/jeomj/memoirs/
6. The linearized maximum principle for optimal problems with variable delays and continuous initial condition. . *Mem. Differential Equations Math. Phys*, 29(2003),153-155.
7. Formulas of variation of solution for non-linear controlled delay differential equations with continuous initial condition. *Mem. Differential Equations Math. Phys*, 31(2004),83-97. (with T. Tadumadze) http://www.rmi.ge/jeomj/memoirs/
8. Optimal problems with incommensurable delays and with continuous and discontinuous initial condition. Symposium on Differential Equation and Mathematical Physics Dedicated to the 100-th Birthday Anniversary of Academician V. Kupradze and 90-th Birthday Anniversary of Academician N. Vekua. Abstract, Tbilisi, Georgia, December 24-25, 2003, http://www.rmi.acnet.ge/2003 DEMPH
9. Necessary Conditions of Extremality of Initial Moment for One Class of Variation Problem with Delay Argument. (with T. Tadumadze) Computer Sciences and Telecommunications 2005(No 2(6)) [2005.09.30] http://gesj.internet-academy.org.ge
10. Local Variation Formulas for solution of Delay Controlled Differential Equation with Mixed Initial Condition. *Mem. Differential Equations Math. Phys*, 51(2010),17-41. (with M. Iordanishvili) http://www.rmi.ge/jeomj/memoirs/
11. On One Modification of Heavy Ball Method. *Proceedings of A.Razmadze Mathematical Institute,* 161 (2013), 83-95 (with K.Gelashvili, I.Khutsishvili, N.Ananiashvili) http://www.rmi.ge/proceedings/