

Faculty of Informatics and Control Systems

Control Systems Department

List of scientific works of Associate Professor Irma Davitashvili

1. Irma Davitashvili. "Modeling and Control Beam and Ball system". 9941-512-06-3. ARTICLES OF THE CONFERENCE. Georgia. Tbilisi 2023.
2. Archil Prangishvili,, Teimuraz Matcharashvili,, Irma Davitashvili, Ekaterine Mepharidze, Dimitri Tephnadze, Levan Laliashvili, Aleksandre Sborshchikovi. "Changes Occurred in the Variation of Internet Border Gateway Protocol Updates, Caused by Influence of SelfPropagated Slammer Worm". BULLETIN OF THE GEORGIAN NATIONAL ACADEMY OF SCIENCES..15 #4 2021
3. Irma Davitashvili, Nino Mchedlishvili, Zurab Tsveraidze, Levan Laliashvili. THE STUDY OF INTERNET DYNAMICS THROUGH. ASSESSMENT OF SCALE FEATURE OF A NETWORK ECHO MECHANISM. Transactions "Automated Control Systems", Georgian Technical University №1(32), Vol.1, 2021
4. Tamaz Chelidze, Ekaterine Mepharidze, Aleksandre Sborshchikovi, Natalia Zhukova, Irma Davitashvili, Dimitri Tephnadze, Levan Laliashvili. Primary Analysis of Acoustic Emission Events of Stick-Slip Process under External Influence. BULLETIN OF THE GEORGIAN NATIONAL ACADEMY OF SCIENCES.13 #3 2019
5. I. Davitashvili, N. Mchedlishvili, I. Mosashvili,. Modeling of home heating with Matlab/Simulink. Georgian Technical University "Automation Systems of Control", N2 (22), Tbilisi, 2016.
6. I. Davitashvili, N. Mchedlishvili, I. Mosashvili Control problems of voice sensors. Georgian Technical University "Automation Systems of Control", No 2(20), 2015,
7. N. mchedlishvili, I.davitashvili, L.Nonikashvili . Building Phase Trajectories of Economic Crisis and Cycles. Georgian Technical University "Automation Systems of Control", No 2(13), 2012.
8. Mosashvili I., Mchedlishvili N., Davitashvili I. Modeling and Simulation of Optimal Control Systems. 2011 International Siberian Conference on Control and Communications (SIBCON) Proceedings. – Krasnoyarsk: Siberian Federal University. Russia, Krasnoyarsk, 2011. pp.16-18.
9. I. Davitashvili. Flow around the rocket with viscous fluid. International Conference : "Automation Systems of Control and Modern Informational Technologies". Georgian Technical University "Automation Systems of Control", N1 (10), Tbilisi, 2011.
10. M.Kiknadze, E.Gvaramia,I.Davitashvili. Analysis of Service Qualities in Data Transfer Networks. Science and Technologies. 4-6, 2010
11. M.Kiknadze, E.Gvaramia,I.Davitashvili .Modern Aspects of the Network of Data Transfer. Georgian Engineering News. 1. 2010. GFID
12. T. obgadze, I.Davitashvili, N.Vardziashvili. Mathematical Modelling of the Flow of The Torpedo by The Stream of the Viscous Liquid. . Georgian Technical University "Automation Systems of Control", N1 (8), Tbilisi, 2010
13. A.Prangishvili, T.Obgadze, I.Davitashvili. Optimization of the bottom part of a structure of a wing of the subsonic plane on the basis of Pareto-analysis. Georgian Technical University "Automation Systems of Control", N2 (7), Tbilisi, 2009.
14. I.Davitashvili. The Effect of the Velocity Vector Profile of Running-ON Flow on The Flow-About Regime. Georgian Engineering News. 1. 2008. GFID
15. I.Davitashvili, T.Obgadze. New algorithm for calculation of the Problem of profile flow around with viscous fluid in case of steady-state flow around. Georgian Technical University "Automation Systems of Control", N1 (2), Tbilisi, 2007.

16. A.Prangishvili, T.Obgadze, I.Davitashvili. Use of Nonlinear Programming Method for Optimization of the Lower Part of Aircraft Wing Profile Georgian Technical University "Automation Systems of Control", N2 (3), Tbilisi, 2007.
17. N. Mchedlishvili, I.Davitashvili, N.Pailodze. Modeling and Research of Structural instability of Nonlinear Systems. Proceedings of International Scientific Conference "Information Technologies in Control." Georgian Technical University. Tbilisi. 2007
18. A.Prangishvili, T.Obgadze, I.Davitashvili. Application of a method of nonlinear programming for optimization of a wing of airplane. Proceedings of International Scientific Conference "Information Technologies in Control." Georgian Technical University. Tbilisi. 2007

Textbooks:

19. N. Mchedlishvili, I. Davitashvili. Programming in Matlab environment. Second edition. Georgian Technical University, Tbilisi, 2021. 145 p.
20. Nino Mchedlishvili, Irma Davitashvili, Theory of control of nonlinear and discrete systems. Tbilisi: GTU, 2017. 152 p.
21. I. Davitashvili, N. Mchedlishvili, Automation Control Theory of Nonlinear and Discrete Systems, , Georgian Technical University, 2017
22. N. Mchedlishvili, I. Davitashvili, Automation Control Theory of Linear Systems, „Georgian Technical University “, 2016
23. T. Obgadze, N. Tushishvili, N. Melanashvili, I. Davitashvili. Basics Mechanics with Examples and Exercises. Georgian Technical University, 2016
24. N. Mchedlishvili, I. Davitashvili, Programming in Matlab Environment, „Georgian Technical University “, 2015
25. I. Davitashvili, Programming with C#. Georgian Technical University, 2013
26. N. Mchedlishvili, I. Davitashvili. T. Khutsishvili, Modeling instrumental tool -MATLAB / SIMULINK. Tbilisi 2013
27. N. Mchedlishvili, I. Davitashvili. Simulation Modeling Systems. Tbilisi 2013.
28. I.Davitashvili, N.Mchedlishvili, T.Khutsishvili. Modeling instrumental tool MATLAB . Part 1. Georgian Technical University “, 2009
29. T.Obgardze, L.Obgardze, N. Mchedlishvili, I.Davitashvili, N.Tushishvili. Mathematical Modeling Course (Economics on the base Matlab and Mathcad). Georgian Technical University 2007.