Lela Mirtskhulava

Associate Professor
Computer Science

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Education:

- Diploma in Engineering, National Research Nuclear University MEPhI (Moscow Engineering Physics Institute), Kutaisi Technical University
- PhD in Computer Systems, Networks and Complexes, Georgian Technical University

Teaching Courses

- Computer Architecture and Organization
- Network Technologies and Communications 1
- Network Technologies and Communications 2
- System Administration and Management

Previously Taught Courses

- Mobile Applications
- Mobile Computing
- Computer Networks and security
- Advance Computer Architecture

Research Interest

- Healthcare Telemedicine Systems
- Mobile Computing
- Wireless Multimedia Networking
- Neural Networks and its Applications
- Mathematical Modeling of Telecommunication Networks
- Reliability Theory and its Applications

Running Projects

- FR/312/4- 150/14 Mixed types of Markovian and Semi-Markovian Queuing Systems for Dependability Planning of Infocommunication Networks (Fundamental Research Supported by Shota Rustaveli National Science Foundation)

Selected Publications

1. Christofer Yalung, Salah Al Majeed, Cid Mathew Adolfo, Jalal Karam, Lela Mirtskhulava. Gyroscope explorer terrain angles classification. IEEE Xplore Digital Library. 09 January 2017
2. Jalal Karam, Salah Al-Majeed, Christofer N. Yalung, Lela Mirtskhulava. Neural Network for Recognition of Brain Wave Signals. International Journal of Enhanced Research in Science, Technology & Engineering ISSN: 2319-7463, Vol. 5 Issue 10, October-2016
3. L. Mirtskhulava, C. Mert, Z. Tsiramua, and G. Gugunashvili. The Methods of Power Consumption Measurements in Smartphones. Proceedings of International Scientific Conference Dedicated to Academician Iveri Prangishvili's 85th Anniversary "Information and Computer Technologies, Modelling, Control". November 3-5, 2015, Tbilisi, Georgia.
4. Lela Mirtskhulava, The role of Mobile Computing in Climate Protection. The first SDSU-Georgia STEM Workshop on Nanotechnology and Environmental Sciences. 4-5 September 2015, Tbilisi, Georgia.
5. Lela Mirtskhulava, Salah Al-Majeed, Reliability Prediction Modelling for Wireless Communication Networks. Conference: ICCIT 2015 – The Fourth International Conference on Communications and Information Technology, At Abu Dhabi, UAE
6. Lela Mirtskhulava, Julian Wong, Gillian Pearce, Salah Al-Majeed. Artificial Neural Network Model in Stroke Diagnosis. DOI: 10.1109/UKSim.2015.33 Conference: 2015 17th UKSIM-AMSS International Conference on Modelling and Simulation, At Cambridge, UK. IEEE Xplore Digital Library.
7. Gillian Pearce, Lela Mirtskhulava, Julian Wong, Salah Al-Majeed, Koba Bakuria, Nana Gulua. DOI: 10.1109/UKSim.2015.34 Conference: 2015 17th UKSIM-AMSS International Conference on Modelling and Simulation, University of Cambridge, Cambridge, UK. IEEE Xplore Digital Library.
8. Lela Mirtskhulava, Giorgi Gugunashvili and Mzia Kiknadze. Erlang Distribution and Exponential Distribution Models in Wireless Networks. Transactions on Engineering Technologies, 2014. Chapter 42. Springer. Netherlands. p. 563-577. 2014/1/1
9. Salah Al-Majeed, Lela Mirtskhulava, Gillian Pearce, Mohamed Al-Mulla and Julian Wong. Blood Clotting Analysis Based Neural Networks Modeling and Sensors Measurement. 2014 Annual International Conference on Biologically Inspired Cognitive Architectures (BICA 2014). Fifth Annual Meeting of the BICA Society. *November 7-9 (Friday-Sunday): Massachusetts Institute of Technology, Cambridge, MA*
10. Lela Mirtskhulava, Salah Al-Majeed, Gillian Pearce, Tamar Gogoladze, Ivane Javakhishvili. Blood clotting prediction model using Artificial Neural Networks and Sensor Networks. GESJ: Computer Science and Telecommunications 2014| No. 3(43). Reviewed Electronic Scientific journal. http://gesj.internet-academy.org.ge/en/list_artic_en.php?b_sec=comp
11. Lela Mirtskhulava, Natela Ananiashvili, and Giorgi Gugunashvili. On the Modeling of Wireless Communication Networks. International Journal of Computer, Systems and Control Engineering Vol:8, No:6, 2014.
12. Lela Mirtskhulava, Mariam Khunjgurua, Nino Lomineishvili. Software Reliability Prediction Model Analysis. ICSCE 2014: International Conference on Software and Computer Engineering. London, United Kingdom. June 29-30, 2014.
13. Lela Mirtskhulava, Revaz Kakubava, Natela Ananiashvili, and Giorgi Gugunashvili. Internet Reliability and Availability Analysis Using Markov Method. UKSim-AMSS 16th International Conference on Computer Modeling and Simulation. Cambridge, United Kingdom 26-28 March 2014. UKSim2014. http://uksim2014.info/
14. L. Mirtskhulava, member of IAENG, G.Gugunashvili, M. Kiknadze. Modeling of Wireless Networks as Queuing System. World Congress on Engineering and Computer Science 2013. San Francisco, UC, Berkeley. USA, 23-25 October, 2013.
15. Lela Mirtskhulava. Mathematical model of Prediction of Reliability of Wireless Communicaition Networks UKSim 2013. UKSim-AMSS 15th International Conference on Computer Modeling and Simulation. Cambridge, United Kingdom 10-12 April 2013. IEEE Xplore Digital Library. 677-680 pp. ISBN: 978-1-4673-6421-8.