Lela Mirtskhulava, PhD

WORK EXPERIENCE (ACADEMIC)

2009 - Present
Associate Professor
Department of Computer Science
Faculty of Exact and Natural Sciences
Iv. Javakhishvili Tbilisi State University

2016 - Present
Adjunct Faculty
Department of Computer Science/ Computer Engineering Department
San Diego State University Georgia
Tbilisi, Georgia

1 August 2018 - 1 August 2019
Fulbright Visiting Scholar
Department of Computer Engineering
San Jose State University
San Jose, CA, USA

January 2019 – 1 August 2019
Part-time Faculty
Department of Computer Engineering
San Jose, CA, USA
San Jose State University

2015 – 2017
Quality Assurance Manager, Program Coordinator (Bachelor's, Informatics), Director of Research Center for Mobile Computing, Associate Professor
Faculty of Computer Technologies and Engineering
International Black Sea University
2, 13th km., David Aghmashenebeli Alley, Tbilisi, 0131, Georgia

1 March 2016 – 1 June 2016
Visiting Scholar
Faculty of Physics and Informatics
Westsaxson University of Applied Sciences Zwickau, Germany
Dr.-Friedrichs-Ring 2A, 08056 Zwickau, Germany

19 Sept 2016 -19 Oct 2016
Visiting Scholar
Department of Computer Science
San Diego State University, San Diego, California, USA
5500 Campanile Drive, San Diego, CA 92182

1 August – 1 September 2013
Visiting Professor
Computer Laboratory, Faculty of Computer Science and Technology
University of Cambridge, Cambridge, UK
15 JJ Thomson Avenue, Cambridge CB3 0FD

2013-2015
Interim Chair of Technical Informatics
Department of Computer Science, Faculty of Exact and Natural Sciences
Ivane Javakhishvili Tbilisi State university
13, University str, Tbilisi, 0175, Georgia

2006-2009
Associate Professor
Department of Computer Science, Faculty of Exact and Natural Sciences
Sokhumi State University
9, Jikia str, Tbilisi, 0186, Georgia

2006-2007	**Expert of Education**
	Ministry of Education and Science of Georgia
	52, Dimitri Uznadze str, Tbilisi, 0102, Georgia

1998-2006	**Associate Professor**
	Department of Informatics, Faculty of Informatics and Control Systems
	Georgian Technical University, Tbilisi, Georgia
	77, Kostava str, Tbilisi, 0175, Georgia

INDUSTRIAL EXPERIENCE

2009-2013	**Core Networks Operations Chief Engineer (International Roaming)**
	Geocell LLC (Teliasonera group)
	3, Gotua str, Tbilisi, 0160, Georgia

2000-2009	**Core Networks Operations Engineer/International Roaming Engineer**
	Geocell LLC (Teliasonera group)
	3, Gotua str., Tbilisi, 0160, Georgia

2001-2002	**Switch Engineer (NOM), IREG Tester**
	Ericsson Georgia Ltd, Tbilisi, Georgia

1998-2000	**Head of Computer Networks group**
	17, Jiqia str, Tbilisi, 0186, Georgia
	JSC "Egrisi", Scientific Research Institute of Telecommunications, Tbilisi, Georgia

EDUCATION

1993-1997	**PhD in Computers, Complexes, Systems and Networks**
	Department of Informatics
	Georgian Technical University
	77, Kostava str, Tbilisi, 0186, Georgia

1990-1992	Automation of technological processes, Kutaisi Technical University, Georgia

1985-1990	Faculty of Automatics and Electronics, Moscow Engineering Physics Institute, Moscow, Russian

CERTIFICATES

2021	Certificate of Appreciation for sharing their valuable knowledge as a Speaker during CYBER SECURITY Global Summit"21, July 27-28, 2021.
2022	CERTIFICATE FOR TECHNICAL COMMITTEE. The 5th International Conference on Communication Engineering and Technology (ICCET 2022).
2016	Certificate in a workshop "Agile programming with SCRUM" in the frame of DAAD project 'Extension of the practical orientation of study in Kyrgyzstan and Georgia'
2016	Certificate in German language, Westsaxson University of Applied Sciences Zwickau, Germany
2016	DAAD Scholarship Certificate in scope of Academic staff exchange program, Westsaxson University of Applied Sciences Zwickau, Germany
2015	Certificate of Merit. Session Chair. IEEE UKSIM2015, UKSim-AMSS 17th International Conference on Modeling and Simulation. University Of Cambridge (Emmanuel College), Cambridge, UK. 25-27 March 2015.
2015	Certificate of participation. "Forum on higher education cooperation between Germany and the Eastern Bologna Member Countries". Tbilisi, Georgia, 11th May – 13th May, 2015
2015	Certificate of Attendance. Improvement of Quality of Education at IBSU. 31 March 2015
2015	Certificate of Attendance. Self-Development. IBSU. 5 June 2015

2014	Certificate of Appreciation. Session Chair. ICSCE 2014: International Conference on Software and Computer Engineering. London, UK, June, 29-30, 2014
2014	University of North Texas. G Step Graduate Student Teaching Excellence Exchange Programs - U.S. Department of State — at Ivane Javakhishvili Tbilisi State University.
2014	Certificate of Merit. Session Chair. IEEE UKSIM2014, UKSim-AMSS 16th International Conference on Modeling and Simulation. Cambridge University (Emmanuel College), 26-28 March 2014
2006	Teacher Training Program Community colleges for International Development USA
2005	GSM BSC Maintenance LZU 10 85458 Ericsson education Istanbul
2005	GSM AXE Operation LZU 1085024/1 Ericsson education Istanbul
2005	SM BSC Operation LZU 108625 Ericsson education Istanbul
2005	GPRS Radio Network Dimensioning & Performance Workshop LZU 108 5402/1 Ericsson, Istanbul
2005	GPRS signaling LZU 108 5931 Ericsson, Istanbul
2001	BSS Delta LZU 1083679 Ericsson, Istanbul
2000	AXE 10 Survey LZU 108 77 Ericsson, Istanbul
2000	GSM System Survey LZU 108 852 Ericsson, Istanbul
2000	Telecom Platform LZU 108 145 Ericsson, Istanbul

PERSONAL SKILLS

MOTHER TONGUE	GEORGIAN
OTHER LANGUAGES	English - proficient Russian - proficient German – good Turkish - basic
RESEARCH INTERESTS .	Cybersecurity, Blockchains in Medicine, Blockchains in Cybersecurity, Artificial Intelligence in Medicine, statistics, internet of things in education and healthcare systems, cloud computing and data security, software development in java, software reliability, computer networks and security, artificial neural networks modelling, wireless communications, the study of possible methods of developing the models to monitor stroke using soft sensors of ANN and smartphone sensors, power consumption, global warming, climate protection, sustainable development, mathematical modelling.
Membership of Professional Associations and editorial review board	1. COST (European Cooperation in Science and Technology) – Management Committee Member 2. ACM – Professional member 3. IEEE – Professional member 4. Scientific Cyber Security Association (SCSA) –Researcher. 5. American Association for Precision Medicine (AAPM), Belmont, California, USA - Member 6. AIMed - Advisory Board Member, Ambassador 7. DAAD – Ambassador 8. ACM Computing Review – reviewer 9. 11th International Silk Road Conference on Innovations in Business, Education and Sciences – Scientific and Review Committee Member, International Black Sea University, 20-21 May 2016, Tbilisi, Georgia. 10. UK Society for Modelling and Simulation (UKSim) - member 11. International Association of Engineers (IAENG) - member 12. International Association of Computer Science and Information Technology (IACSIT) - Senior member

13. WASET (World academy of Science, Engineering and Technology) - the member of Scientific Committee and Editorial Review Board on Engineering and Physical Sciences

Approved Lectures Courses	

- CS 576 Computer Networks and Distributed Systems (SDSU Georgia)
- CS 237 Machine Organization and Assembly Language programming (San Diego State university Georgia)
- CS 490 Senior Seminar (San Diego State university Georgia)
- CS 596 Advanced Topics in Computer Science (SDSU Georgia)
- CMPE 258 Deep Learning (San Jose State university, CA, USA)
- CMPE 220 System Software (San Jose State university, CA, USA)
- Advanced Computer Architecture (Doctoral level) (IBSU)
- Mobile Computing (Master Level) (IBSU)
- Computer Networks and Security (Master Level) (IBSU)
- Mobile Applications (Undergraduate Level) (IBSU)
- Web Programming (Undergraduate Level) (TSU)
- Computer Architecture and Organization (Undergraduate Level) (TSU)
- Network Technologies and Communications (Undergraduate Level) (TSU)
- Network Technologies and Communications (Wireless Technologies) (Undergraduate Level) (TSU)
- System Administration and Management (Master Level) (TSU)
- Networks and Network Technologies (Master Level) (TSU)
- Networks and Network technologies 2 (Master Level) (TSU)

PREVIOUSLY TAUGHT COURSES

- Computer graphics (GTU)
- Machine-oriented programming (Assembler) (GTU)
- Microprocessors (GTU)
- Computer Networks (GTU)

PARTICIPATION IN PROJECTS

2020 - 2024
COST Association – European Cooperation in Science & Technology project "International Interdisciplinary Network on Health and Wellbeing in an Age-friendly Digital World" funded by Horizon 2020 Framework Programme of the European Union. Secondary Proposer.

2019 -2021
TÜBİTAK – SRGNSF "Design and Analysis of NTRU-based Cryptosystems Using Formal Methods" – Researcher. Turkish-Georgian (TÜBİTAK SRGNSF) project, 2018-2021.

2018-2019
Fulbright Academic Exchange Program. San Jose State University, San Jose, CA, USA. 2018-2019.

2015 -2017
DAAD-project "Partnerships between Universities and industry".
Project coordinator (Students and staff exchange program) – Project Coordinator at International black Sea University

2014 -2017
Cisco Academy Networking. Central Headquarter, CA, US. Translating CCNA modules using Lingotech. (Supported by UNESCO) - Translator

2014 -2018
FR/312/4-150/14 - Mixed types of Markovian and Semi-Markovian Queuing Systems for Dependability Planning of Infocommunication Networks (Supported by Shota Rustaveli National Science Foundation) – Main implementer

2016
International Multidisciplinary Seasonal School "Energy, Environment and Sustainable Development" SSEESD, May 6-12, 2016, Tbilisi, Telavi, Georgia. Vanue: Ivane Javakhishvili Tbilisi State University, Tbilisi (6-8 May, 2016), Iakob Gogebashvili Telavi State University,

Telavi (9-12 May, 2016). Leading institution: Ivane Javakhishvili Tbilisi State University. (Supported by Shota Rustaveli National Science Foundation) – Lecturer.

REFEREES

1. Prof. Xiao Su, Chair of Department of Computer Engineering, San Jose State University, CA, USA. Email: xiao.su@sjsu.edu.
2. Vladimer Kiknadze, Fi/Admin Director, San Diego State University/SDSU Georgia. Email: vkiknadze@sdsu.edu
3. Prof. Tamar Tchelidze, Head of Quality Assurance Department at the Faculty of Exact and Natural Sciences at Ivane Javakhishvili Tbilisi State University, Georgia. Email: tchelidze@tsu.ge

INTERNATIONAL CONFERENCES

1. Cyber Security Global Summit, US, 2021 Speaker ("Enhancing IoT Security using Neural Cryptography").
2. 2021 IEEE 5th International Conference on Information and Telecommunication Technologies and Radio Electronics (UkrMiCo), Kyiv, Ukraine, 2021
3. ICSP&AM7 - 7th International Caucasian Symposium on Polymers and Advanced Materials. Tbilisi, Georgia, 2021.
4. Nineli Lashkarashvili, Lela Mirtskhulava. Detecting Emotions in Human Voice. UKSim-AMSS 23rd International Conference on Modelling & Simulation. Cambridge University (Emmanuel College), 31 March - 2 April 2021.
5. Conference: UKSim2020, 2020 22nd UKSIM-AMSS International Conference on Modelling and Simulation. University of Cambridge, UK
6. IEEE International Conference on Information and Telecommunication Technologies and Radio Electronics – UkrMicO 2019. Odessa, Ukraine. http://ukrmico.kpi.ua/
7. DataAI National Summit (DANS), American Association, of Precision Medicine, Silicon Valley, CA, February 6-8 2019. http://www.dans.ai/
8. AIMed 2018 North America – International Symposium Artificial Intelligence in Medicine, 12-14 December 2018, Los Angeles, CA.
9. BlacSeaCom2018 - IEEE International Black Sea Conference on Communications and Networking, 4-7 June 2018 – Batumi, Georgia
10. 2018 6th International Conference on Communications and Broadband Networking (ICCBN 2018), Singapore. February 24-26, 2018.
11. Second International Symposium - Artificial Intelligence in Medicine (AIMed) 2017, Los Angeles, CA
12. Second International Conference on Internet of Things, Data and Cloud Computing (ICC'17). University of Cambridge, Cambridge, UK. To be appear.
13. IEEE east-west design & test symposium 2016. Yerevan, Armenia, October 14 - 17, 2016.
14. International Scientific Conference on Information and Computer Technologies, Modelling, Control – 2015 (ICT-MC 2015). Dedicated to 85th anniversary of Academician I.V. Prangishvili. 3-5 November 2015, Tbilisi.
15. The first SDSU-Georgia STEM Workshop on Nanotechnology and Environmental Sciences. September 4-5 2015, Tbilisi, Georgia.
16. Conference: ICCIT 2015 – The Fourth International Conference on Communications and Information Technology, At Abu-Dhabi, UAE

17. Conference: UKSim2015, 2015 17th UKSIM-AMSS International Conference on Modelling and Simulation, At Cambridge, UK
18. 2014 Annual International Conference on Biologically Inspired Cognitive Architectures (BICA 2014). *November 7-9 (Friday-Sunday): Massachusetts Institute of Technology, Cambridge,MA 02139, USA(http://bicasociety.org/meetings/2014)*

19. The 2014 International Conference of Computer Science and Engineering (ICCSE'14). World Congress on Engineering. London, UK., 2-4 July, 2014

20. ICSCE 2014: International Conference on Software and Computer Engineering. London, United Kingdom. June 29-30, 2014

21. IEEE UKSim 16th International Conference on Modeling and Simulation. Cambridge University (Emmanuel College). 26-28 April 2014. http://uksim2014.info/

22. World Congress on Engineering and Computer Science 2013. San Francisco, UC, Berkeley. USA, 23-25 October, 2013.

23. IEEE UKSim 15th International Conference on Modeling and Simulation. Cambridge University (Emmanuel College). 10-12 April 2013. http://uksim2013.info/

24. IEEE First International Black Sea Conference on Communications and Networking (BlackSeaCom2013). Batumi, Georgia. http://www.ieee-blackseacom.org/2013/psessions.html

25. XXIV International Symposium on Nuclear Electronics & Computing (NEC'2013). BULGARIA, VARNA, 09-16 September, 2013. http://nec2013.jinr.ru/prog.php

26. International Scientific Conference on Information and Computer Technologies, Modelling, Control – 2015 (ICT-MC 2015). Dedicated to 85th anniversary of Academician I.V. Prangishvili. 3-5 November 2015, Tbilisi.

27. The first SDSU-Georgia STEM Workshop on Nanotechnology and Environmental Sciences. September 4-5 2015, Tbilisi, Georgia.

28. Conference: ICCIT 2015 – The Fourth International Conference on Communications and Information Technology, At Abu Dahbi, UAE

29. Conference: UKSim2015, 2015 17th UKSIM-AMSS International Conference on Modelling and Simulation, At Cambridge, UK

30. 2014 Annual International Conference on Biologically Inspired Cognitive Architectures (BICA 2014). *November 7-9 (Friday-Sunday): Massachusetts Institute of Technology, Cambridge,*MA 02139, USA(*http://bicasociety.org/meetings/2014*)

31. The 2014 International Conference of Computer Science and Engineering (ICCSE'14). World Congress on Engineering. London, UK., 2-4 July, 2014

32. ICSCE 2014: International Conference on Software and Computer Engineering. London, United Kingdom. June 29-30, 2014

33. IEEE UKSim 16th International Conference on Modeling and Simulation. Cambridge University (Emmanuel College). 26-28 April 2014. http://uksim2014.info/

34. World Congress on Engineering and Computer Science 2013. San Francisco, UC, Berkeley. USA, 23-25 October, 2013.

35. IEEE UKSim 15th International Conference on Modeling and Simulation. Cambridge University (Emmanuel College). 10-12 April 2013. http://uksim2013.info/

36. IEEE First International Black Sea Conference on Communications and Networking (BlackSeaCom2013). Batumi, Georgia. http://www.ieee-blackseacom.org/2013/psessions.html

37. XXIV International Symposium on Nuclear Electronics & Computing (NEC'2013). BULGARIA, VARNA, 09-16 September, 2013. http://nec2013.jinr.ru/prog.php

Publications

BOOK CHAPTERS

1. Iavich M., Iashvili G., Gnatyuk S., Tolbatov A., Mirtskhulava L. (2021) Efficient and Secure Digital Signature Scheme for Post Quantum Epoch. In: Lopata A., Gudonienė D., Butkienė R. (eds) Information and Software Technologies. ICIST 2021. Communications in Computer and Information

Science, vol 1486. Springer, Cham. https://doi.org/10.1007/978-3-030-88304-1_15.

2. David Al-Dabass, Lela Mirtskhulava. Chapter 1 - Application of dynamical systems based deep learning algorithms to model emergent characteristics for healthcare diagnostics. Handbook of Computational Intelligence in Biomedical Engineering and Healthcare. Chapter 01. Copyright © 2021 Elsevier.

3. Lela Mirtskhulva, Larysa Globa, Nana Gulua and Nugzar Meshveliani. Complex Approach in Cryptanalysis of Internet of Things (IoT) Using Blockchain Technology and Lattice-Based Cryptosystem. Advances in Information and Communication Technology and Systems. Springer. P. 55-66. 2020

4. Chapter 20. The methods of Power Consumption Measurement in Smartphones (L. Mirtskhulava, C. Mert, Z. Tsiramua and G. Gugunashvili, Georgian Technical University, Tbilisi, Georgia, and others), 2017. http://www.novapublishers.org/catalog/product_info.php?products_id=62232.

5. 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

SELECTED PAPERS

1. Lela Mirtskhulava, Maksim Iavich, Marina Razmadze, Nana Gulua. Securing Medical Data in 5G and 6G via Multichain Blockchain Technology using Post-Quantum Signatures. 2021 IEEE International Conference on Information and Telecommunication Technologies and Radio Electronics (UkrMiCo). 2022

2. Maksim Iavich, Lela Mirtskhulava, Giorgi Iashvili, Larysa Globa. 5G Laboratory for Checking Machine Learning Algorithms. 2021 IEEE International Conference on Information and Telecommunication Technologies and Radio Electronics (UkrMiCo).

3. Iavich M., Iashvili G., Gnatyuk S., Tolbatov A., Mirtskhulava L. (2021) Efficient and Secure Digital Signature Scheme for Post Quantum Epoch. In: Lopata A., Gudonienė D., Butkienė R. (eds) Information and Software Technologies. ICIST 2021. Communications in Computer and Information Science, vol 1486. Springer, Cham. https://doi.org/10.1007/978-3-030-88304-1_15

4. David Al-Dabass, Lela Mirtskhulava. Chapter 1 - Application of dynamical systems based deep learning algorithms to model emergent characteristics for healthcare diagnostics, Handbook of Computational Intelligence in Biomedical Engineering and Healthcare, Academic Press, 2021, Elsevier Inc. Pages 1-29.

5. Lela Mirtskhulava, Elene Esiava, Nana Gulua. A Blockchain-Based Trust Model for Bitcoin Cryptocurrency and its Popularity in Georgia. GESJ: Computer Sciences and Telecommunications. 2021 | No.2(60) [2021.08.31]

6. Nineli Lashkarashvili, Lela Mirtskhulava. Detecting Emotions in Human Voice. International Journal of Simulation: Systems, Science & Technology. Volume 22, Number N1, 2021. https://ijssst.info/Vol-22/No-1/cover-22-1.htm

7. Erekle Shishniashvili, Lizi Mamisashvili, Lela Mirtskhulava. Enhancing IoT Security using Multi-Layer Feedforward Neural Network with Tree Parity Machine Elements. International Journal of Simulation Systems, Science & Technology. Special Issue: Conference Procedings UKSim2020, 25 to 27 March 2020.

8. Lela Mirtskhulava, Lela Tvaliashvili, Avtandil Bardavelidze and Luka Tvaliashvili. Environmrnal Monitoring in Flammable Climate Zones over IoT Cloud. Conference: UKSim2020, 2020 22nd UKSIM-AMSS International Conference on Modelling and Simulation. University of Cambridge, UK

9. Lela Mirtskhulava, Nana Gulua, Nugzar Meshveliani. NTRU Cryptosystem

Analysis for Securing IoT. Reviewed Electronic Scientific journal. GESJ: Computer Science and Telecommunications 2019|No.1(56)

10. Lela Mirtskhulava, Nana Gulua, Nugzar Meshveliani, Iot Security Analysis using Neural Key Exchange Protocol. GESJ: Computer Science and Telecommunications|. Reviewed Electronic Scientific journal. 2019|No.2(57).

11. Lela Mirtskhulava, Nugzar Meshveliani, Nana Gulua and Larysa Globa. Cryptanalysis of Internet of Things (IoT) Wireless Technology. IEEE International Conference on Information and Telecommunication Technologies and Radio Electronics – UkrMicO 2019. Odessa, Ukraine**.** The best paper award.

12. Blockchain in Medicine, Workshop, AIMed 2018 North America – International Symposium Artificial Intelligence in Medicine, 12-14 December 2018, Los Angeles, CA.

13. Android Neural Network application for Brainwaves Monitoring – Abstract, AIMed 2018 North America – International Symposium Artifisial Intelligence in Medicine, 12-14 December 2018, Los Angeles, CA.

14. Rover Sentinel – DEMO (Pattern Recognition using AI). BlacSeaCom2018 - IEEE International Black Sea Conference on Communications and Networking 4-7 June 2018 – Batumi, Georgia

15. Monitoring Brain Attacks using AI Diagnosis. AIMed journal 2018. CA, USA. Featured Article (http://ai-med.io/ai-med-magazine-001/)

16. 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

17. Christofer Yalung, Salah Al Majeed, Cid Mathew Adolfo, Jalal Karam, Lela Mirtskhulava. Gyroscope Explorer Terrain Angles Classification. IEEE east-west design & test symposium 2016. Yerevan, Armenia, October 14 - 17, 2016.

18. 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.

19. Lela Mirtskhulava, The role of Mobile Computing in Climate Protection. The first SDSU-Georgia STEM Workshop on Nanotechnology and Environmental Sciences. September 4-5 2015, Tbilisi, Georgia.

20. 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 Dahbi, UAE

21. 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

22. 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, At Cambridge, UK

23. 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*

24. Lela Mirtskhulava, Salah Al-Majeed, Gillian Pearce, Tamar Gogoladze, Ivane Javakhishvili. 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

25. 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.

26. 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.

27. 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/

28. 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.

29. 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.

30. Mirtskhulava L.G., Gugunashvili G.N., Gogoladze T.M. and Kiknadze M.G. Performance Analysis of IPv6 Tunneling over IPv4 Environment Georgian Engineering News, №4, 2012. P. 37-40

31. Mirtskhulava L.G., Gugunashvili G.N., Datuashvili N.Z. and Kiknadze M.G. Characterization of the Hybrid Wired/Wireless Networks. Georgian Engineering News, №4, 2012. P. 40-42

32. L.Mirtskhulava, N. Chkaidze, G. Gugunashvili Analysis of quality of service in the PLC networks. Proceedings of the international scientific conference "Information technologies 2008". It is devoted to 80-anniversary of professors K. Kamkamidze and I. Mikadze. 2008. p.266-270

33. L. Mirtskhulava, N. Chkhaidze, G. Gugunashvili, E. Kamhadze. The study of power networks as an alternative communication media. Proceedings of the International Scientific Conference "Information Technologies 2008" It is devoted to 80-anniversary of Professors K. Kamkamidze and I. Mikadze. 2008. p. 227-229.

34. Mirtskhulava Lela, Kiknadze Mzia. Analysis of Characteristics of Quality of Service of Networks of Data Transmission Transactions. Automated Control Systems №1(2). p. 141-143

35. Mirtskhulava L.G., Mirtskhulava E.G. and Gugunashvili G.N. Mathematical modeling of the data traffic in optical packet switched networks Georgian Engineering news. 4 (06). GFID. 2006. 137-139pp.

36. Mirtskhulava L.G., Tsiramua Z.G., Gugunashvili G.N. and Mirtskhulava E.G. Dependability Planning for packets data in telecommunication networks Georgian Engineering News, №3, 2006, p. 167-168

37. Tsiramua Z.G., Lominadze N.N. and Mirtskhulava L.G. Scenario of secure functioning of corporate computer networks Georgian Engineering News, №3, 2006, p. 163-166

38. Mirtskhulava L.G., Gvaramia E.G., Kiknadze M.G. and Jojua N.M. Data Traffic Model and Performance Analysis in PLC Networks.

Georgian Engineering News, №3, 2006, p. 77-79

39. Mirtskhulava L.G., Gvaramia E.G., Mirtskhulava E.G. Quantitative characteristics of Data packets transmission via powerlines Georgian Engineering News, №2, 2006, p. 214-215

40. Lela Mirtskhulava. Mathematical modeling of packet data traffic in telecommunication networks Periodical Scientific Journal INTELLECT. 3(26). Tbilisi 2006. 44-45p.

41. Nikoloz Chkhaidze, Lela Mirtskhulava, George Gugunashvili, Eka Gvaramia. The convergence of infotelecommunication network development. Periodical scientific journal. INTELLECT, № 2 (22), 2005. 78-80 p.

42. Mirtskhulava L.G., Gvaramia E.G., Gugunashvili G.N., Ramishvili G.I. and Kavtiashvili N.Sh. Development of Data Transmission Technologies via Power Lines Georgian Engineering News, №3, 2005, p. 38-40

43. Gvaramia E.G, Mirtskhulava L.G, Mirtskhulava E.G. Basic principles of data transfer technology over the power lines Georgian Engineering News, № 4, 2005 c.117-119

44. Kamkamidze K.N., Mirtskhulava L.G., Gvarvmiya E.G. Prediction models of the state of Power System of Georgia with the help of building its Multiservice Network Georgian Engineering News, № 4, 2005 p. 216-217