



Tarel Khvedelidze

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Education:

- Tbilisi State University. Mechanics and Mathematics Faculty. Qualification: Mathematician-mechanic
- Candidate of physical and mathematical sciences Iv. Javakhishvili Tbilisi State University

Teaching Lecture courses:

- Formal languages and automata
- Behavioral models of systems
- Information systems and models
- Data analysis and statistics

Research Interests:

- Theory of Markov Chains
- Automata Theory
- Modeling and Control of Complex Systems

Participation in International Conferences:

1. ICCMIT'17 Conference, Warsaw, Poland, 3-5 April 2017 http://www.iccmit.net/ICCMIT_
2. ICCMIT'15 Conference, Prague, Czech Republic, 20-22 April 2015
http://www.iccmit.net/ICCMIT_
3. International scientific conference "information and computer technologies, modeling, management" dedicated to the 85th anniversary of the birth of academician I.V. Prangishvili. Georgia, Tbilisi, November 3-5, 2015
4. International Scientific Conference e RA – 5. The SyneEnergy Forum. The Conference for International Synergy in Energy, Environment, Tourism and contribution of Information Technology in Science, Economy, Society and Education. Piraeus, Greece, 15-18 September 2010

5. International Scientific Conference e R A – 4. The Conference for the contribution of Information Technology in Science, Economy, Society and Education & International Scientific Conference Spetses, Greece <http://era.teipir.gr>. 24-26 September 2009
6. EUROPEAN COMPUTING CONFERENCE (ECC' 09) Tbilisi, Georgia, iune 26-28, 2009

Research Publications:

1. **T.Khvedelidze**. On the behavior of a class of infinite stochastic automaton in a random environment. International Journal "Information Technologies & Knowledge" Volume 10, Number 3, 2016
2. **T.Khvedelidze**. On the asymptotic optimality of stochastic automata. eRA- 4 PROCEEDINGS, 2016, <http://era.teipir.gr/>.
3. **T.Khvedelidze**. On the Behaviour of an Infinite Stochastic Automation in a Stationary Random Medium. eRA - 4 PROCEEDINGS, 2016, <http://era.teipir.gr/>.
4. **T.Khvedelidze**, G.Tsertsvadze. Analysis of the behavior of the stochastic finite automaton in a ternary stationary random environment. G.E.S.J. Computer Sciences and Telecommunications. <http://gesj. Internet-academy. Org.ge> N 2(46), 2015 (Rus.).
5. G.Tsertsvadze, **T.Khvedelidze**. Investigation of the behavior of a class of stochastic automata in ternary random environment. Proceedings of the International Scientific Conference "Information & COMPUTER technology, modeling, management" devoted to 85 - th anniversary of Academician IV. Prangishvili. Georgia, Tbilisi, November 3-5, 2015 (Rus.).
6. I. Aslanishvili, **T.Khvedelidze**. Simple model for transmission control protocol (TCP). International journal "Information Models and Analyses". Volume4, N1, 2015. Sofia, 100, P.O.B. 775, Bulgaria, www.Ithea.org.
7. **T.Khvedelidze**. One construction of a finite automaton in a stationary random medium with three classes of reactions. G.E.S.J. Computer Sciences and Telecommunications. <http://gesj. Internet-academy. Org.ge> N2(3 4), 2012 (Rus.).
8. **T.Khvedelidze**, I. Aslanishvili. On one Construction of a Finite Automaton. Proceedings of the EUROPEAN COMPUTING CONFERENCE (ECC' 09) Tbilisi, Georgia, june 26-28, 2009 (Rus.).
9. **T.Khvedelidze**. On one construction of an endless stochastic automaton. G.E.S.J. Computer Sciences and Telecommunications. <http://gesj. Internet-academy. Org.ge> N3(20), 2009 (Rus.).
10. **T.Khvedelidze**. Synthesis of automata operating in stationary random environments with non-binary reactions. Proceedings of Institute control systems Archil Eliashvili N11, 2007 (Rus).
11. **T.Khvedelidze**, I. Aslanishvili, I.Tsertsvadze. On the behavior of a finite automaton with quasi-linear tactics in a switched random environment with non-binary reactions. Proceedings of Tbilisi State University, 2005, N 364(24), 2005 (Rus.).

12. **T.Khvedelidze**, I. Aslanishvili, I.Tsertsvadze. Automaton realization of one statistical rule. Proceedings of Tbilisi State University, 2005, N 364(24), 2005 (Rus.)
13. G.Tsertsvadze, **T.Khvedelidze**. Method of generating functions in problem behavior of automata in a stationary random environment. Proceedings of Tbilisi State University, 1998, N 330(1) (Rus.).
14. **T.Khvedelidze**, G.Tsertsvadze. Synthesis of asymptotically optimal automata at three types of reaction stationary random environment. Proceedings of Tbilisi State University, 1993, N 315 (Rus.).
15. **T.Khvedelidze**, G.Tsertsvadze. On one problem synthesis of optimal construction of automata. Messages Georgian Academy of Sciences, 145 N1, 1992 (Rus.).
16. **T.Khvedelidze**, G.Tsertsvadze. Random walks and analysis of the behavior of automata in random media with three classes of reactions. Proceedings of Tbilisi State University, 1991, N 308 (Rus.).
17. **T.Khvedelidze**. Behavior of finite automata at three types of reactions of a stationary random environment. Proceedings TSU, 1991 (conference proceedings).
18. **T.Khvedelidze**. Numerical methods for finding the probability characteristics behavior of automata at three types of reactions of a stationary random environment. Proceedings of Tbilisi State University, 1990, N 300 (Rus.).
19. G.Tsertsvadze, **T.Khvedelidze**. Analysis the expedient behavior of automata at three types of reactions random environment. Proceedings of Tbilisi State University, 1989, N 94 (Rus.).
20. **T.Khvedelidze**. On the eigenvalues of Markov chains generated by functioning asymptotically optimal of automata at three types of reactions of stationary random environment. Proceedings of Tbilisi State University, 1988, N 279 (Rus.).
21. **T.Khvedelidze**. The behavior finite automata in switchable environment at three types reactions of environment. Proceedings of Tbilisi State University, 1987, N 272 (Rus.).
22. G.Tsertsvadze, **T.Khvedelidze**. On the behavior of ε - automaton in switchable environments. Messages Georgian Academy of Sciences, 126 N1, 1987 (Rus.).
23. **T.Khvedelidze**. About one construction asymptotically optimal automata. Proceedings of Tbilisi State University, 1985, N 258 (Rus.).