



Manana Khachidze

Professor

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Education

Tbilisi State University, Faculty of Cybernetic and Applied Mathematics Master's degree (equal) in Mathematical software of ACS.

PhD in Technological Science

Teaching Courses:

- Data Base;
- Information Retrieval;
- Quantum informatics.

Research Interests

- Data Base;
- Information Retrieval;
- NLP;
- Quantum informatics;
- Medical Informatics;
- Technologies and methods of teaching.

Running projects

Document Classification Engine Model for Georgian Information;

Creation of Modeling Software of Molecular Systems – Materials of Molecular Nanotechnology and Spinelectronic;

Medical Image processing – Theoretical Bases and Technological Aspects;

Selected Publications

1. M.khachidze, M.Tsintsadze, M. Archuadze. Natural Language Processing (NLP) Based Instrument for Classification of Free Text Medical Records. *BioMed Research International* Volume 2016 (2016), Article ID 8313454, 10 pages.
<http://dx.doi.org/10.1155/2016/8313454>
2. P.J. Kervalishvili, M. G. Khachidze. Quantum Approach to Sensory Information Processing for Modeling of Disasters. Book - NATO Science for Peace and Security, Series B: Physics and Biophysics. *Nuclear Radiation Nanosensors and Nanosensory Systems*. 2016, pp.1-8
3. P.J. Kervalishvili, M. G. Khachidze, A. Chirakadze. Novel Achievements in Information Science and Technology as basis of Secure Society Sustainable Development. Series:NATO Science for Peace and Security Series - E: Human and Societal Dynamics. Ebook: Volume 120: Engaging the Public to Fight the Consequences of Terrorism and Disasters. 2015. pp. 27-39
4. M.khachidze, M.Tsintsadze, M. Archuadze, G.Besiashvili. Concept Pattern Based Text Classification System Development for Georgian Text Based Information Retrieval. *Baltic J. Modern Computing*, Vol. 3 (2015), No. 4, pp. 307–317
5. M.khachidze, M.Tsintsadze, M. Archuadze. On Web Services. The International Scientific Conference Dedicated to Academician L.Prangishvili 85th Anniversary “Information and Computer Technologies, Modeling, Control” Tbilisi 3-5 November, 2015. proceedings pp. 146-150.
6. T.Tatrishvili, N.Jalagonia, K. Gelashvili, M.Khachidze, E.Markarashvili, J.Aneli, O.Mukbaniani. Quantum Chemical calculations of Hydrosilylation Reaction of Oligomethylhydrosiloxane to Allyl Cyanide and Polymer Electrolyte Membranes on their Basis. *Oxidation Communications* 38, No1, 2015. pp. 13-24.
7. M.khachidze, G.Besiashvili, M. Archuadze, M.Cincadze. Sensor data Full Application Circle Planning International Conference “TBILISI-SPRING-2014-Nuclear Radiation Nanosensors and Nanosensory Systems. 2014
8. M.khachidze, G.Besiashvili. Pollution and Pollutin Source Definition on the Basis of Data Conceptual Analysis. International Conference “TBILISI-SPRING-2014” - Nuclear Radiation Nanosensors and Nanosensory Systems.
9. M. Khachidze, M.Tsintsadze, M. Archuadze, G. Besiashvili. Complex system state generalized presentation based on concepts. Application of Information and Communication Technologies (AICT), 2014 IEEE 8th International Conference on, At Astana. DOI: 10.1109/ICAICT.2014.7035999
10. M.Khachidze, M.Tsintsadze, M.Archuadze, G.Besiashvili. The Technical System Troubleshooting Defining Using Concept Patterns. *GESJ: Computer Science and Telecommunications* 2014|No.3(43)
11. M.Tsintsadze, M.Archuadze, G.Besiashvili, M.Khachidze. CONCEPT PATTERN FORMATION IN SEMANTIC SEARCH PROBLEMS. *GESJ: Computer Science and Telecommunications* 2014|No.2(42)
12. Kervalishvili P., Khachidze M. Quantum Information Technology and Modeling of Disasters. *Improving Disaster Resilience and Mitigation. New Means and Tools, Trends*. NATO Advanced Research Workshop. November 6-8, 2013, Iasi, Romania.

13. Khachidze, M.; Archuadze, M.; Besiashvili, G., "The method of concept formation for semantic search," Application of Information and Communication Technologies (AICT), 2013 7th International Conference on , vol., no., pp.1,5, 23-25 Oct. 2013
14. Khachidze, M.; Archuadze, M.; Besiashvili, G.; Kervalishvili, P., "Quantum concepts in information retrieval," Application of Information and Communication Technologies (AICT), 2012 6th International Conference on , vol., no., pp.1,4, 17-19 Oct. 2012.
15. G.Besiashvili, M.Khachidze, D.Chokhanelidze.Application of Adaptive Genetic Algorithm in Mining Industry.4th International Conference "Problems of Cybernetics and Informatics" (PCI'2012), September 12-14, in Baku, Azerbaijan.
16. The Seventh Japanese-Mediterranean and Central European Workshop on Applied Electromagnetic Engineering for Magnetic, Superconducting and Nano Materials (JAPMED'7), Budapest, Hungary, 6-9- July, 2011.