



Georgian National Academy of Sciences



Personal Data (CV)

Surname	Kachiashvili	First Name	Kartlos
Address (work)	77, st. Kostava, Tbilisi, Georgia	Date and place of birth	December 23, 1950, Gurdjaani
Citizenship	Georgia	Contact phone number	599 743367
E-mail	k.kachiashvili@gtu.ge , kkachiashvili@gmail.com		

1. Education

Institution	Learning Time
School #1, Gurdjaani, Gold Medal	1957-1967
Georgian Polytechnic Institute. Faculty of Automation and Computer Engineering, Electronic-Computing Machines, Gold Medal, Electrical Engineer	1967-1972

2. Scientific or Academic Degree and Rank

	Title of the thesis	Date of conferment
Ph.D. thesis	Detection and Tracking of moving object on the basis of radio location measurement information	March, 1978
Doctoral thesis	Mathematical models, methods and algorithms of the system automation of water media contamination level control	October, 1990
Academician Doctor		
Research Follow of the Academy		
Corresponding Member of the Academy		
Member of the Academy	Member (Academician) of Georgian National Academy of Science	2022

3. Knowledge of Languages

Foreign languages	Level of language proficiency (fluent, intermediate, beginning with the help of a dictionary)
Russian	fluent
English	fluent
French	beginning with the help of a dictionary

4. Work Experience (Including permanent positions abroad)

Date	Institution	Position
2011-up today	Georgian Technical University, Faculty of Informatics and Control Systems	Professor
2007-2012	Abdus Salam School of Mathematical Sciences of GC University, Lahore (Pakistan)	Foreign Professor
2001-2007	The I. Vekua Institute of Applied Mathematics of the Tbilisi State University (Tbilisi, Georgia)	Main Scientific Worker
1992-2001	National Center of Environmental Monitoring (Tbilisi, Georgia)	Head
1981-1992	Tbilisi Scientific Production Association "Analytical Instruments"	Chief of Automated Information-Measurement systems department
1977-1981	Scientific Production Association "Elva" (Tbilisi, Georgia)	Laboratory chief
1974-1977	the Moscow Power Institute (Technical University) – МЭИ, chair of applied mathematics (Moscow, Russia).	Post-graduate student, junior scientific worker
1972-1974	Scientific Research Institute of Industry automation (Gori, Georgia)	Engineer

4.1 Teaching Activity

Date	Institution	Position
1980-up today	Georgian Technical University (in Georgian, Russian and English)	Associate Professor, Professor
2012-2015	European Research Center of Tbilisi State University (in English)	Professor
1996-2006, 2025 (Spring semester)	Tbilisi State University (in Georgian)	Professor
2011 (Autumn semester)	Black sea University (Tbilisi, Georgia) (in English)	Professor
2006-2007 (Spring semester)	Tbilisi Economic Relations Government University (in Georgian and Russian)	Invited professor
2007-2012, 2015 (Spring semester)	Abdus Salam School of Mathematical Sciences of GC University Lahore (Pakistan) (in English)	Foreign Professor

4.2 Work Abroad (Long-term visits to international universities or research centers)

Date	Place and Institution
2007-2012, 2015 (Spring semester)	Full Professor of Abdus Salam School of Mathematical Sciences of GC University Lahore, Pakistan.

5. Scientific Interests

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Mathematical Statistics, Data Analysis (Environmental, Agricultural, Medical), Mathematical Modeling and Simulation, New Computer Technologies Development, System Analysis (Environmental Water Pollution), Computing Mathematics, Machine Learning.

6. Publications (Total number)

267 (Among them: 1) 8 monographs published in Georgia (2), Ukraine (1), USA (4), UK (1); 2) 5 Text book published in Georgia (1), Indonesia (1); 3) 138 articles refereed journals; 4) 116 refereed conference publications)

6.1 Citation Index

Scopus, h index: 197 citations by 89 documents, h- Index 7
 Google Scholar, h index: 667, h- Index 13
 Web of Sciences, h index: 129, h- Index 5 (corresponds to the beginning of 2021)

6.2 Monographs

Years	
1989	Kachiashvili K.J. (1989) <i>Bayesian algorithms of many hypothesis testing</i> . Ganatleba, Tbilisi, 144 p. (In Russian)
1991	Primak A.V., Kafarov V.V. and Kachiashvili K.J. (1991) <i>System Analysis of Control and Management of Air and Water Quality</i> . Naukova Dumka, Kiev, 360 p. (Science and technical progress) (In Russian)
2007	Kachiashvili K.J., Gordeziani D.G. and Melikdzhanian D.I. (2007) <i>Mathematical models, methods and algorithms of control and regulation of water quality in rivers</i> . Georgian Technical University, Tbilisi, 251 p. (In Russian)
2012	Kachiashvili K.J. and Melikdzhanian D.I. (2012) <i>Advanced Modeling and Computer Technologies for Fluvial Water Quality Research and Control</i> . Nova Science Publishers, Inc., New York, 348 p. (In English) Scopus ID: 84891970149 .
2015	Kachiashvili K.J., Melikdzhanian D.I. and Prangishvili A.I. (2015) <i>Computing Algorithms for Solutions of Problems in Applied Mathematics and Their Standard Program Realization</i> . Part 1-Deterministic Mathematics. Nova Science Publishers, Inc., New York, 372 p. (In English) Scopus ID: 84954116350 .
2015	Kachiashvili K.J., Melikdzhanian D.I. and Prangishvili A.I. (2015) <i>Computing Algorithms for Solutions of Problems in Applied Mathematics and Their Standard Program Realization</i> . Part 2- Stochastic Mathematics. Nova Science Publishers, Inc., New York, 358 p. (In English) Scopus ID: 84954167503 .
2018	Kachiashvili K.J. (2018) <i>Constrained Bayesian Methods of Hypotheses Testing: A New Philosophy of Hypotheses Testing in Parallel and Sequential Experiments</i> . Nova Science Publishers, Inc., New York, 361 p. (In English) Scopus ID: 85048844177 .
2023	Kachiashvili K.J. (2023) <i>Testing Statistical Hypotheses with Given Reliability</i> . Cambridge Scholars Publishing, UK, 322 p. (In English) ISBN (10): 1-5275-1063-8, ISBN (13): 978-1-5275-1063-0

6.3 Principal Papers (no more than 50)

Years	
2025	Kachiashvili, K.J., Kachiashvili, J.K., SenGupta, A. (2025) Solving ANOVA problem with restricted Type I and Type II error rates. <i>AIMS Mathematics</i> , 10(2): 2347-2374. IF 1.8, SJR 0.456 Q2 doi: 10.3934/math.2025109
2025	Kachiashvili K.J., Kachiashvili J.K. and Kvaratskhelia V.V. (2025) Automatic Recognition of Human Psychological State Based on EEG Data. <i>Contemporary Mathematics (Singapore)</i> , 6(3), 3117-3134. IF 2.5, SJR 0.238 Q1 doi: https://doi.org/10.37256/cm.6320256144
2024	Kachiashvili, K.J., SenGupta, A. (2024) Constrained Bayesian Method for Testing Equi-Correlation Coefficient. <i>Axioms</i> , Volume 13, Issue 10, 722, 1-21. https://doi.org/10.3390/axioms13100722 IF 1.9, SJR 0.388
2024	Kachiashvili, K.J., SenGupta, A. (2024) Constrained Bayesian Methods for Union-Intersection and Intersection-Union Hypotheses Testing Problems. <i>Iran J Sci.</i> , Vol. 48, pages 1579–1594. https://doi.org/10.1007/s40995-024-01693-x IF, SJR 0.27, Q2
2024	Kachiashvili, K. J., Kachiashvili, J. K. and Kvaratskhelia V.V. (2024). Automatic Diagnosis of Lung Diseases (Pneumonia, Cancer) with given Reliabilities on the Basis of an Irradiation Images of Patients. <i>International Journal of Statistics in Medical Research</i> , 13, 64-97. DOI: 10.6000/1929-6029.2024.13.07 SJR 0.252, Q2

2024	Kachiashvili, K. J., Mukhopadhyay, N., & Kachiashvili, J. K. (2024). Constrained Bayesian method for testing composite hypotheses concerning normal distribution with equal parameters. <i>Sequential Analysis</i> , Vol. 43, Issue 2 , Pages 147-178. IF 0.567, SJR 0.414 https://doi.org/10.1080/07474946.2024.2326222
2024	Kartlos Kachiashvili, Joseph Kachiashvili and Ashis SenGupta (2024) Consideration of Directional Hypotheses in Pairs for Making a Decision with Given Reliability. <i>Bulletin of TICMI</i> , 28(2), 73-96. SJR 0.121
2023	Kachiashvili, K., Kvaratskhelia, V., Prangishvili, A. (2023). Comparison of Constrained Bayesian and Classical Methods of Testing Statistical Hypotheses in Sequential Experiments. (Pages 289-306) In: Zgurovsky, M., Pankratova, N. (eds) System Analysis and Artificial Intelligence. Studies in Computational Intelligence, vol 1107. Springer, Cham. https://doi.org/10.1007/978-3-031-37450-0_17 , Print ISBN978-3-031-37449-4, Online ISBN978-3-031-37450-0. Indexed by SCOPUS. (Indexed by SCOPUS, DBLP, WTI Frankfurt eG, zbMATH, SCImago. All books published in the series are submitted for consideration in Web of Science.)
2022	Kachiashvili, K.J. and Kvaratskhelia, V.V. (2022) The Use of Imitation Models at Developing and Introducing Information-Control Systems. <i>Journal of Software Engineering and Applications</i> , 15(7), 240-247. doi: 10.4236/jsea.2022.157014 . Google-based IF 0.99 .
2021	Kachiashvili K.J. (2021) Existing Approaches and Development Perspectives for Inferences. <i>International Journal of Statistics in Medical Research</i> , 10, 63-71. SJR 0.252, Q2
2020	Kachiashvili K.J. (2020) Information Technologies for Control and Management of Environmental Water Quality. <i>Acta Scientific Microbiology</i> , 3(11): 89-94. IF 1.282
2020	Kachiashvili K.J. and Kachiashvili J.K. (2020) Indexes for Classification of Populations According to the Intensity of Cancer Diseases. <i>Advances in Cancer Research & Clinical Imaging</i> , 2(4), 1-6. ACRCI.MS.ID.000543. DOI: 10.33552/ACRCI.2020.02.000543. CIF 4.341
2020	Kachiashvili K.J., Kachiashvili J.K. and Prangishvili I.A. (2020) CBM for Testing Multiple Hypotheses with Directional Alternatives in Sequential Experiments. <i>Sequential Analysis</i> , 39:1, 115-131, DOI: 10.1080/07474946.2020.1727166 IF 0.567, SJR 0.414
2019	Kachiashvili K.J. (2019) An Example of Application of CBM to Intersection-Union Hypotheses Testing. <i>Biomed J Sci & Tech Res</i> , 19(3), p. 14345-14346. BJSTR. MS.ID.003304. IF 1.095
2019	Kachiashvili K.J., Prangishvili I.A. and Kachiashvili J.K. (2019) Constrained Bayesian Methods for Testing Directional Hypotheses Restricted False Discovery Rates. <i>Biostat Biometrics Open Acc J</i> 9(3): BBOAJ.MS.ID.555761. IF 1.287
2018	Kachiashvili K.J., Bansal N.K. and Prangishvili I.A. (2018) Constrained Bayesian Method for Testing the Directional Hypotheses. <i>Journal of Mathematics and System Science</i> , 8, 96-118, doi: 10.17265/2159-5291/2018.04.002 IF 0.675
2018	Kachiashvili K.J. (2018) On One Aspect of Constrained Bayesian Method for Testing Directional Hypotheses. <i>Biomed J Sci & Tech Res</i> , 2(5). BJSTR.MS.ID.000821. DOI: 10.26717/BJSTR.2018.02.000821 IF 1.095
2018	Kachiashvili K.J. and Melikdzhanian D.I. (2018) Estimators of the Parameters of Beta Distribution, <i>Sankhya B: The Indian Journal of Statistics</i> , 81(2), 350-373, DOI: 10.1007/s13571-018-0157-2 IF 0.85
2018	Kachiashvili K.J. and Prangishvili A.I. (2018) Verification in biometric systems: problems and modern methods of their solution, <i>Journal of Applied Statistics</i> , 45(1), 43-62, DOI: 10.1080/02664763.2016.1267122 IF 1.404
2017	Kachiashvili K.J. (2017) The Impact of Applied Agricultural Technologies on the Productivity of Agricultural Lands. <i>International Journal of Research Studies in Agricultural Sciences (IJRSAS)</i> , Volume 3 Issue 4, pp. 9-21. ISSN 2454-6224, ISSN 2327-3321, UIF 0.5833
2016	Kachiashvili K.J. (2016) Constrained Bayesian Method of Composite Hypotheses Testing: Singularities and Capabilities. <i>International Journal of Statistics in Medical Research</i> , Vol. 5, No. 3, pp. 135-167. SJR 0.252, Q2
2016	Kachiashvili K.J. (2016) EDITORIAL: Inference in Clinical Experiments. <i>International Journal of Statistics in Medical Research</i> , Vol. 5, No. 3, pp. 133-134. SJR 0.252, Q2
2016	Kachiashvili K.J. and Topchishvili A.L. (2016) Estimators of the Parameters of Irregular Right-Angled Triangular Distribution. <i>Model Assisted Statistics and Applications</i> , 11, 179-184. DOI 10.3233/MAS-150362 Impact Score 0.8, SJR 0.368
2015	Kachiashvili, K.J. (2015) Constrained Bayesian Method for Testing Multiple Hypotheses in Sequential Experiments. <i>Sequential Analysis: Design Methods and Applications</i> , Vol. 34, Issue 2, 171-186 DOI: 10.1080/07474946.2015.1030973 IF 0.567, SJR 0.414
2014	Kachiashvili K.J. (2014) Comparison of Some Methods of Testing Statistical Hypotheses. Part I. Parallel Methods. <i>International Journal of Statistics in Medical Research</i> , 3, 174-189. SJR 0.252, Q2
2014	Kachiashvili K.J. (2014) Comparison of Some Methods of Testing Statistical Hypotheses. Part II. Sequential Methods. <i>International Journal of Statistics in Medical Research</i> , 3, 189-197. SJR 0.252, Q2
2014	Kachiashvili K.J. (2014) The Methods of Sequential Analysis of Bayesian Type for the Multiple Testing Problem. <i>Sequential Analysis</i> , 33(1), 23-38 DOI: 10.1080/07474946.2013.843318 IF 0.567, SJR 0.414
2014	Kachiashvili K.J. (2014) Investigation of the method of sequential analysis of Bayesian type. <i>Journal of Advances in Mathematics</i> . Vol. 18, No. 1, p. 1367-1380. IF 1.688
2013	Kachiashvili, K.J. & Mueed, A. (2013) Conditional Bayesian Task of Testing Many Hypotheses, <i>Statistics: A Journal of Theoretical and Applied Statistics</i> , 47, 2, 274-293. IF 1.051

2012	Kachiashvili K.J., Hashmi M.A. and Mueed A. (2012) Quasi-optimal Bayesian procedures of many hypotheses testing. <i>Journal of Applied Statistics</i> , Vol. 40, No. 1, 103–122. IF 1.404
2012	Kachiashvili K.J., Hashmi M. A. and Mueed A. (2012) Sensitivity Analysis of Classical and Conditional Bayesian Problems of Many Hypotheses Testing. <i>Communications in Statistics—Theory and Methods</i> , Volume 41, Issue 4, 591–605. IF 0.893
2012	Kachiashvili K.J. and Hashmi M.A. (2012) Computation of the Multivariate Normal Integral over a Complex Subspace, <i>Applied Mathematics</i> , Vol. 3 No. 5, 489-498. IF 0.61
2012	Kachiashvili K.J., Hashmi M. A. and Mueed A. (2012) The Statistical Risk Analysis as the Basis of the Sustainable Development. <i>Int. J. of Innovation and Technol. Management</i> (World Scientific Publishing Company), Vol. 9, No. 3, 1250024 (2012) [10 pages] DOI: 10.1142/S0219877012500241 IF 1.8, SJR 0.395
2012	Kachiashvili K.J. (2012) Comparison Analysis of the Wald's and the Bayes Type Sequential Methods for Testing Hypotheses. <i>International Journal of Mathematical and Computational Sciences</i> , Vol:6, No:10, 1432-1436. IF, SJR 0.152
2011	Kachiashvili K.J. and Melikdzhanian D.I. (2011) Modern Software for the Environmental Modeling and Statistical Data Analysis. <i>Procedia Computer Science</i> , WCIT-2010, 3, 439-443. SJR 0.569
2010	Kachiashvili K.J. and Melikdzhanian D.I. (2010) SDpro – The Software Package for Statistical Processing of Experimental Information. <i>International Journal Information Technology & Decision Making (IJITDM)</i> , Vol. 9, No 1, 115-144. IF 2.22
2010	Kachiashvili K.J. and Hashmi M.A. (2010) About Using Sequential Analysis Approach for Testing Many Hypotheses. <i>Bulletin of the Georgian Academy of Sciences</i> , 4(2): 20-25. ISSN 1321447, Impact Score 0.27, SJR 0.19
2009	Kachiashvili K.J. and Melikdzhanian D.I. (2009) Software for Determination of Biological Age. <i>International Journal Current Bioinformatics</i> , 4(1): 41-47. IF 3.543
2009	Kachiashvili K.J. and Melikdzhanian D.I. (2009) Software Realization Problems of Mathematical Models of Pollutants Transport in Rivers. <i>International Journal Advances in Engineering Software</i> , 40, 1063-1073. IF 4.141
2008	Kachiashvili K.J., Hashmi M. A. and Mueed A. (2008) The statistical risk analysis as the basis of the sustainable development. <i>Proceedings of the 4th IEEE International Conference on Management of Innovation & Technology (ICMIT2008)</i> , Bangkok, Thailand, 1210-1215. SJR 0.113
2007	Kachiashvili K.J., Gordeziani D.G., Lazarov R.G. and Melikdzhanian D.I. (2007) Modeling and simulation of pollutants transport in rivers. <i>International Journal of Applied Mathematical Modelling (AMM)</i> , 31, 1371-1396. IF 5.129
2006	Kachiashvili K.J. and Melikdzhanian D.I. (2006) Identification of River Water Excessive Pollution Sources. <i>International Journal of Information Technology & Decision Making</i> , World Scientific Publishing Company, Vol.5, Issue 2, 397-417. IF 2.5, SJR 0.723 Q1
2006	Kachiashvili K.J. and Melikdzhanian D.I. (2006) Parameter optimization algorithms of difference calculation schemes for improving the solution accuracy of diffusion equations describing the pollutants transport in rivers. <i>International Journal Applied Mathematics and Computation</i> , 183, 787-803. IF 4.091
2006	Dasenakis M., Botsou F., Paraskevopoulou V., Chikviladze C. and Kachiashvili, K.J. (2006) Transport of pollutants in two estuarine systems on the coast of Georgia. <i>Chemistry and Ecology</i> , 22(5), pp. 379-393. IF 2.244, SJR 0.46 Q2
2005	Kachiashvili K.J. and Melikdzhanian D.I. (2005) Restoration of some nonlinear functional dependences with the help of the generalized technique of identification. <i>Applied Mathematics and Informatics (AMIM)</i> , Vol. 10, No. 1, 53-89. SJR
2004	Kachiashvili K.J. and Nakani D.V. (2004) The research of dependences of nitrates contents in agricultural fields soils and maize corn and sizes of harvests from used fertilizers. <i>Reports of Enlarged Session of the Seminar of I. Vekua Institute of Applied Mathematics</i> , Vol. 19, No. 1, 43-48. SJR
2003	Kachiashvili K.J. (2003) Generalization of Bayesian Rule of Many Simple Hypotheses Testing. <i>International Journal of Information Technology & Decision Making</i> , World Scientific Publishing Company, Vol. 2, No. 1., 41-70. IF 2.5, SJR 0.723 Q1
2001	Kachiashvili K.J. and Melikdzhanian D.I. (2001) Construction of confidence intervals for mathematical expectation of random variables of a certain type. <i>Industrial laboratory</i> , No. 3, Vol. 67, 59-63. SJR 0.103(2003), IF
2001	Kachiashvili K.J., Gordeziani D.G. and Melikdzhanian D.I. (2001) Mathematical models of dissemination of pollutants with allowance for of many sources of effect. <i>Proceeding of the Urban Drainage Modeling Symposium</i> , May, 20-24, Orlando, Florida, 692-702. SRJ 0.158
2001	Kachiashvili K.J. and Stepanishvili V.A. (2001) The automated system of monitoring of quality fluvial and sewages. <i>Proceeding of the Urban Drainage Modeling Symposium</i> , May 20-24, Orlando, Florida, 843-847. SRJ 0.158
2001	Kachiashvili K.J. and Melikdzhanian D.I. (2001) Interpolation of Nonlinear Function of the Certain Class. <i>Bulletin of the Georgian Academy of Sciences</i> . Vol. 163, No. 3, 444- 447. Impact Score 0.27, SJR 0.19
2000	Kachiashvili K.J. and Melikdzhanian D.I. (2000) Methodology of nonlinear regressions identification by modified method of least squares. <i>Industrial laboratory</i> , 5, 157-164. SJR 0.103(2003), IF
2000	Kachiashvili K.J. (2000) Automation of Research in the Field of Ecology. Tbilisi International Center of Mathematics and Informatics: <i>Bulletin of TICMI</i> , Vol. 4, Tbilisi University Press, 6-12. SJR 0.11

2000	Kachiashvili K.J. and Melikdzhanian D.I. (2000) New method of construction of confidence intervals for mathematical expectations. Tbilisi International Center of Mathematics and Informatics: <i>Bulletin of TICMI</i> , Vol. 4, Tbilisi University Press, 12-17. SJR 0.11
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6.4 Textbooks, Additional Manuals, and other Methodological Literature and Training means

Years	
2004	Kachiashvili K.J. (2004) <i>Models of computer-aided management. Statistical models</i> . Georgian Technical University, Tbilisi, 137 p. (text-book) (In Georgian and Russian)
2013	Kachiashvili K.J. and Nurani B. (2013) <i>Statistical Models and Simulation by SPSS</i> . Publisher "Alfabeta", Bandung, Indonesia, 353 p. (text-book) (In English)
2013	Kachiashvili K.J. (2013) <i>Business Process Modeling</i> , Georgian Technical University, 237 p. (electronic text-book translated from English) (In Georgian)
2021	Kachiashvili K.J. (2021) <i>Machine learning methods and algorithms (methodical instructions for seminar work)</i> . "IT Consulting Scientific Center" of GTU, Tbilisi, M. Kostava 77 (In Georgian).
2024	Kachiashvili K.J. (2024) <i>Machine Learning</i> . Publishing House "Technical University", Tbilisi, M. Kostava 77 (In Georgian).

6.5 Participation in Scientific Symposiums, Conferences for the last 5 years

Years	Title	Name of Event
2025	Automatic recognition of human psychological state on the basis of EEG-based data.	The Sixth IEEE International Image Processing, Applications and Systems Conference (IPAS'6), 9-11 January 2025, Lyon, France.
2025	Constrained Bayesian method for testing composite hypotheses concerning normal distribution with equal parameters.	XXXIX International Enlarged Sessions of the Seminar of Ilia Vekua Institute of Applied Mathematics of Ivane Javakhisvili Tbilisi State University. April 23-25, 2025, Tbilisi.
2024	Imitation Models of the Pollutants Transport in the Environmental Water Objects.	The International Conference on Applied Science and Engineering (ASEFORUM2024), March 04-06, 2024, Florence, Italy.
2024	Comparison of Constrained Bayesian and Classical Methods of Testing Statistical Hypotheses in Sequential Experiments	XXXVIII International Enlarged Sessions of the Seminar of Ilia Vekua Institute of Applied Mathematics of Ivane Javakhisvili Tbilisi State University, Tbilisi, Georgia, April 22-24, 2024, p. 45.
2024	Artificial intelligence methods for testing human psychological state.	The International Workshop on Data Analytics and Mathematical Modeling, 26-28 of June, 2024, Tbilisi, Georgia.
2024	Artificial intelligence methods for recognizing human emotion.	10th Global Webinar on Applied Science, Engineering and Technology, July 03-04, 2024, USA-India.
2024	Mathematical Models for Solving Environmental Water Objects Pollution Problems and their software realization.	XV Annual International Meeting of the Georgian Mechanical Union, Book of Abstracts, 29-31.09.24. Program 16.
2024	Quasi-optimal Rule of Testing Directional Hypotheses and Its Application to Big Data.	XIV International Conference of the Georgian Mathematical Union Dedicated to the 100 th Anniversary of the Georgian Mathematical Union. Batumi, September 2-7, p. 106, 2024.
2024	Artificial Intelligence Method for Lung Diseases (Pneumonia, Cancer) Diagnosis with given Reliabilities.	The Tenth International Conference on Statistics for the Twenty-First Century – ICSTC-2024, December 15-16, Trivandrum, India.
2023	Quasi-optimal Rule of Testing Directional Hypotheses.	XXXVII International Enlarged Sessions of the Seminar of Ilia Vekua Institute of Applied Mathematics of Ivane Javakhisvili Tbilisi State University, Tbilisi, Georgia, 19-22 April, 2023. pp. 42-43.
2023	Constrained Bayesian Methods for Testing Union-Intersection and Intersection-Union Hypotheses.	The International Level Webinar "Recent Trends in Statistical Theory and Applications (WSTA 2023)" in

		connection with "National Statistics Day Celebrations 2023", 29 June - 02 July, 2023, Trivandrum, India.
2023	The automatization of the medical diagnosis on the basis of an X-ray images of a patient with the restrictions of both possible errors on the desired levels.	The International Conference "Distributed Computing and Grid Technologies in Science and Education", 3-7 July, 2023, Dubna, Russia. Organized by the JINR Meshcheryakov Laboratory of Information Technologies.
2023	Automatic Diagnosis of Diseases on the Basis of an Irradiation Images of a Patient with Restrictions Both Type of Errors.	The 4th International Conference on Modern Management based on Big Data (MMBD2023), August 1-4, 2023, Seoul, South Korea.
2023	Automatic Diagnosis of Lung Disease on the Basis of an X-Ray Images of a Patient with Given Reliability.	XIII International Conference of the Georgian Mathematical Union, Batumi, September 4-9, 2023.
2023	New Approach to Testing Union-Intersection and Intersection-Union Hypotheses.	Annual on-line conference of the Georgian-America University "Stochastics", 15-16 November, 2023.
2023	Testing Hypotheses concerning Equi-Correlation Coefficient of a Standard Symmetric Multivariate Normal Distribution.	International Conference "Ninth International Conference on Statistics for Twenty-first Century – 2023 [ICSTC-2023]", 15-18 December 2023, Trivandrum, India.
2022	One Approach for Testing Asymmetrical Hypotheses.	XII International Conference of the Georgian Mathematical Union, August 29 – September 3, 2022. BOOK OF ABSTRACTS, p. 117, Batumi, Georgia.
2022	Simulation models describing pollution processes in the environmental water objects.	XIII Annual International Meeting of the Georgian Mechanical Union, 24 - 26 August, 2022. Book of Abstracts, p. 153, Batumi, Georgia.
2022	Methods of Testing Hypotheses Concerning Normal Distribution with Equal Parameters.	Webinar "Recent Trends in Statistical Theory and Applications (WSTA 2022)", 29 June to 02 July, 2022, Trivandrum, India.
2022	Computing the value of a multivariate normal distribution function with a given precision.	Conference dedicated to the memory of academician Niko Vakhania „Analysis, Stochastics, Computing (ASC) - 2022“, 21-22 December, 2022, Tbilisi, Georgia.
2021	Constrained Bayesian Methods for Testing Directional Hypotheses.	Seventh International Conference on Statistics for Twenty-first Century [ICSTC-2021]", 15-19 December, 2021, Trivandrum, India.
2021	Existing Approaches and Development Perspectives for Inferences.	The XXXV International Enlarged Sessions of the Seminar of Ilia Vekua Institute of Applied Mathematics of Ivane Javakhisvili Tbilisi State University, Tbilisi, Georgia, 21-24 April, 2021.
2021	Testing hypotheses concerning equal parameters of normal distribution.	XI International Conference of the Georgian Mathematical Union, 23-28 August, Batumi, Georgia. Book of Abstracts, 115.
2021	Parameters' Estimation of Some Irregular Probability Distributions.	International Conference „Recent Trends in Statistical Theory and Applications (WSTA 2021)“, 29 June to 01 July, 2021, Trivandrum, India.
2020	Constrained Bayesian Methods for Testing Different Types of Hypotheses.	Sixth International Conference on Statistics for Twenty-first Century-2020 (ICSTC 2020), December 16-19, 2020, Trivandrum, India.
2020	Quasi-optimal rule of testing directional hypotheses.	International conference "Strategic Management, Decision Theory & Data Science", Kolkata, India, 4-6 January, 2020. 45-46.
2020	Modeling of Multidimensional Gaussian Markov Real Processes Having Memory with Given Accuracy.	XI Annual International Meeting of the Georgian Mechanical Union, Batumi, Georgia, 27-29 August, 2020. 96-97.
2020	Identification of regression dependences at passive and active experiments.	The XXXIV International Enlarged Sessions of the Seminar of Ilia Vekua Institute of Applied Mathematics of Ivane Javakhisvili Tbilisi State University, Tbilisi, Georgia, 16-19 September, 2020. 41-42.

7. Inventions (Author's Certificate, Patents)

Years	Name
1981	Inventor's certificate N.1016693, Int. Cl. 01 k 7 /00 <i>Temperature measuring device</i> /V.A. Agamirov, G. K. Arutyunov, K. J. Kachiashvili (USSR), N17, 5 p.: 2 fig.

8. International and Local Scientific grants

Years	Name
1997-1998	Methods, algorithms and programs of optimization of metrological maintenance of quality control of substances, Part I
1998-1999	Methods, algorithms and programs of optimization of metrological maintenance of quality control of substances, Part II
2005	The grant of the Ministry of education and Science of Georgia (Georgian National Science Foundation) "Development and research of prognosis and optimal decision-making application program package for control and management of environmental objects"
2005	The grant of the Ministry of education and Science of Georgia (Georgian National Science Foundation) "Economic-ecological models elaboration for farmer's agriculture sustainable development and their realization as program packages (on the example of several rayons of Samegrelo region)"
1998-2000	Manager of the project of ISTC (International Science and Technology Center) G-047 "Identification of River Water Pollution Sources by Means of Automated Control Systems"
2000-2002	The project of INTAS – GEORGIA – 1738 (2000 - 2001) "Transport of pollutants at the sea by small rivers"
1998-2000	Greece – Georgia Joint Research and Technology Project "Transport of Pollutants From Land Base Sources to the Sea"
2002	USTC (Ukrainian Science and Technology Center) Project for carrying out of the international seminar "Research and Management of Environmental Charges in Growing Economics" organized by UNESCO Venice Office, Georgian Academy of Sciences, Tbilisi State University and USTC (Ukrainian Science and Technology Center).
15.08.2002-31.03.2003	Consultant of the World Bank ARET Project in the frame of the component of Environmental Protection.
2003 – 2004	Georgia-USA (CRDF/GRDF) joint project "Development and research of deterministic and stochastic mathematical models for control and management of pollution level of fluvial waters and their realization by application package"
05.08.2003-31.01.2005	Consultant of the World Bank ARET Project in the frame of the component of Environmental Protection.
2004 – 2007	Grant of International Scientific and Technology Center (ISTC) # G-895 "Prolongation of Expected Life Span and Improvement of Life Quality Basing on the Experience of Caucasian Longevity and Georgian Traditional Medicine".
01.07.2005-31.10.2006	Consultant of the World Bank ARET Project in the frame of the component of Environmental Protection
2008-2009	"Mathematical Models and Algorithms for Dynamic Control of Maximum Allowable Discharge (MAD) in Rivers with Ecological and Economic Constraints". Grant of Higher Education Commission of the Ministry of Education and Science of Pakistan.
2008-2009	"Ship Hull Deformation Monitoring (the Hybrid Deflection Monitoring System), ECO-NET" project number 18860NM. Partner countries: France, Estonia and Georgia.
04.2014-04.2016	Grant № AR/183/4-100/13 of Shota Rustaveli National Scientific Foundation "Development of Effective Biometrical Technologies on the Example of Large-scale Electoral System".
2020	Studying measures to combat the spread of the coronavirus pandemic using statistical-analytical methods.
2020	Weather forecast for the national exam period in major cities of Georgia
2018-2022	Mathematical and computer models – theory and practice. Construction and implementation of computational algorithms.
01.10.2022 – 01.10.2025	Grant of European Commission/HORIZON EUROPE "Georgian Artificial Intelligence Networking and Twinning Initiative", Computer Science, Machine Learning, Project #101078950, WIDERA-2021-ACCESS-03 (Twinning), European Union.

01.07.202- 01.07.2028	Grant of European Commission/HORIZON EUROPE „FOsteRing innovation culture for a new generation of Georgian AI research community“ (FORGE-AI)
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9. Scientific-Commercial Activity, Implementation

Years	Name
1974-1991	I was the responsible executor and manager of many scientific-research projects, the cost of which amounted to many tens of millions of Soviet rubles. The annual economic effect obtained by implementing the work performed amounted to many tens of thousands of Soviet rubles.
1991-2025	The main projects completed since 1991 are listed in Table 8.
1985-2007	The special software packages of the programs for IBM-compatible personal computers are developed under my management: 1) Application package for experimental data processing (SDpro) (Version 3.1); 2) Automatic detection of river water emergency pollution sources (Version 2.0); 3) Application package for realization of mathematical models of pollutants transfer in rivers (Version 2.0); 4) Applied package for statistical hypotheses testing (Version 3.0); 5) Automated water quality control system (Version 2.1); 6) Package of program modules for applied tasks of computing mathematics (Version 5.0); 7) Software for Determination of Biological Age (Version 1.0) and others.
1991	The package “Automated water quality control system (Version 2.1)” (developed for the city Riga, Latvia) took the first place on the international forum “Informatics on the service of ecology and health” (Togliatti, Russia, 1991). In the work of this forum were participated a lot of firms from western Europe, America and Asia. The work was executed in the frame of ecological program of the Baltic Sea.
1999	The packages: “Automatic detection of river water emergency pollution sources (Version 2.0); “Application package for realization of mathematical models of pollutants transfer in rivers (Version 2.0); “Application package for experimental data processing (SDpro) (Version 3.1); Applied package for statistical hypotheses testing (Version 2.0) took the first place on the conference – exhibition of the program products created in Georgia “SofTEC’ 99” (Tbilisi, Georgia, 1999).
2002	Descriptions of these packages and methods realized in it are published in many scientific works and are reported on international conferences by the author. Also the mentioned descriptions are published on the web page of the data base CORDIS of EU (www.cordis.lu/marketplace , ftp://ftp.cordis.europa.eu/pub/focus/docs/res32.pdf) with suitable numbers (RCN): 27061, 27062, 27069, 27070, 27071, 27072, 27073, 31061 and the information is given in the appropriate journal “CORDIS focus. Technology opportunities today” Issue n° 35 – July 2002 (p. 18 - 19). The information about these packages is also published on the web page of the data base http://www.globaltechnoscan.com .

10. Other Activities

	Name	Years
Supervision of Theses work	1) Muntazim Abbas Hashmi, PhD, Pakistan Title of the thesis: “Bayesian Approach of Testing Many Hypotheses Concerning Parameters of Multivariate Normal Distribution”.	1) 2008-2011
	2) Abdul Mueed, , PhD, Pakistan Title of the thesis: “Generalization of Bayesian Approach of Testing Many Hypotheses as Conditional Optimization Problem”.	2) 2008-2011
	3) Ivery Prangishvili, PhD, Georgian Technical University Title of the thesis: “Directional Hypotheses Testing Using Constrained Bayesian Method”	3) 2019-2022
	4) Ioseb Kachiashvili, Master of Informatics, Georgian Technical University	4) 2019-2020

	Title of the thesis: "Classification of Georgian settlements according to the intensity of the spread of cancer" under his leadership at the Georgian Technical University, 2020.	
Participation in International, State and Regional Programs	<p>1. The World Bank ARET Project in the frame of the component of Environmental Protection. (http://ARETP.ge)</p> <p>2. "Ship Hull Deformation Monitoring (the Hybrid Deflection Monitoring System), ECO-NET" project number 18860NM, 2008-2009. Partner countries: France, Estonia and Georgia. Executor organizations: French Sea Research Institute (IFREMER), Tallinn University of Technology, the University of Tartu, Georgian Technical University. The funding is applied by IFREMER (France).</p> <p>3. "Mathematical Models and Algorithms for Dynamic Control of Maximum Allowable Discharge (MAD) in Rivers with Ecological and Economic Constraints". Grant of Higher Education Commission of the Ministry of Education and Science of Pakistan.</p>	<p>1. 2001-2007</p> <p>2. 2008-2009</p> <p>3. 2008-2009</p>

11. Membership in international scientific organizations

Years	Name
Since 2022	A member of American Mathematical Society.
Since 2024	Senior member of Hong Kong Society of Algorithms and Computing Technology (HKSACT).
Since 1993	Member of International Academy of Computer Science and Systems (Ukraine).
2021	The Lifetime Achievement Award in "International Scientist Awards on Engineering, Science and Medicine", Ooty, India

12. Awards and Prizes

Date	Name of Awards, Prizes
June 21, 2013	By Decree # 21/06/01 of June 21, 2013 of the President of Georgia he is awarded with THE ORDER OF HONOUR # 772. Certificate # 07214.
1991	Togliatti, Russia, international forum "Informatics on the service of ecology and health" the first place.
1999	The first place on the conference – exhibition of the program products created in Georgia "SofTEC' 99" (Tbilisi, Georgia).

13. Honorary Title

Date	Honorary Title
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<ol style="list-style-type: none"> 1. 1983 2. 2000 3. 1997-2000 4. 1997-2006 5. 2020 – 2022 6. Since 2020 7. Since 2020 8. 2015-2023 9. 2015-2023 10. Since 2021 11. 2014 – 2023 12. Since 2021 13. Since 2022 14. Since 2022 15. Since 2022 16. Since 2022 17. Since 1993 18. Since 1993 19. Since 1994 20. 2010 – 2025 21. Since 2021 22. Since 2021 23. Since 2021 	<ol style="list-style-type: none"> 1. High Attestation Board of USSR he has awarded Science Title of Superior Research Officer. 2. The great council of the Tbilisi State University gives him the title of professor. 3. Member of dissertation council Ph.M.01.08CN5 of Tbilisi State University. 4. Member of dissertation council T 05.13CN4 of Georgian Technical University. 5. Member of university dissertation council of Georgian Technical University in Informatics, Control and Instrument-Making. 6. Member of university academic council of Georgian Technical University. 7. Member of the Board of the Faculty of Informatics and Control Systems of the Georgian Technical University. 8. Member of SDSU to GTU Programs Transition Committee (“Transition Committee”). 9. Member of the ABET commission of the Georgian Technical University. 10. Member of the editorial board of the Georgian Technical University, Faculty of Informatics and Management Systems, majoring in Informatics. 11. Head of the educational program “Computer Science”. 12. A member of the Center for Innovation and High Technologies of the Georgian Academy of Sciences. 13. A Member of the Georgian Mathematicians' Union (GMU). 14. A Member of American Mathematical Society. 15. The head of the scientific-consulting group working on the project of the unified statistical base of socio-economic indicators at the Technical University of Georgia. 16. A Member of the joint working group stipulated by the memorandum of cooperation between the National Academy of Sciences of Georgia and the National Statistical Service of Georgia. 17. A member of International Academy of Computer Science and Systems (Ukraine). Secretary-academician of Georgian branch of this Academy. 18. A member of Georgian Academy of prophylactic medicine and human ecology. 19. A member of Georgian Ecological Academy. 20. A member of the No. 1 Sectoral Commission for Educational and Scientific Literature of the Faculty of Informatics and Control Systems of the Georgian Technical University. 21. A member of the Council of the Faculty of Informatics and Control Systems of the Georgian Technical University. 22. A member of the Sectoral Commission for the Evaluation of Research Work of the Niko Muskhelishvili Institute of Computational Mathematics. 23. Editor in chief, co-Editor in Chief, Associate Editor, Honorable Editor, Editorial Committee member, Review Board member of 37 Highly ranked international scientific journals.
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