# Lia Gachechiladze
## List of scientific works (Last 10 year)

| # | Name of scientific works | Printed or Handwriting | Publishing house, magazine (number, year) or a copy of the copyright certificate | Printed tab or number of pages | Co-author's last name |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | Transact-SQL Language 1. I Part. (Methodical guidelines) | Printed | Tbilisi, Publishing House "Technical University", 2014. ISBN 978-9941-20-446-3 | p. 50 | R. Samkharadze,N. Jojua, M. Kurdadze |
| 2 | Transact-SQL Language 2. II Part. (Methodical guidelines) | Printed | Tbilisi, Publishing House "Technical University", 2014. ISBN 978-9941-20-447-0 | p. 62 | R. Samkharadze,N. Jojua, |
| 3 | Project database. (Methodical guidelines) | Printed | Tbilisi, Publishing House "Technical University", 2014. ISBN 978-9941-20-139-4 | p. 24 | R. Samkharadze,N. Jojua |
| 4 | Project project in object-oriented programming (Methodical guidelines) | Printed | Tbilisi, Publishing House "Technical University", 2014. ISBN 978-9941-20-139-4 | p. 42 | R. Samkharadze,N. Jojua |
| 5 | Methods of teaching some issues of higher mathematics | Printed | New technologies in education: Materials of the XVI International Scientific and Practical Conference (January 8, 2014.): Collection of scientific papers / Scientific ed. Doctor of Pedagogical Sciences, Professor I. A. Rudakova. – M.: Publishing house "Sputnik+", 2014. – 420 p. | P. 321-323 | |
| 6 | An infrared spectral method of moisture determination model | Printed | Tbilisi, "Georgian Technical University", Papers. Automated Control Systems. N2(18). 2014. ISSN 1512-3979 | p. 138-141 | Nozadze Ts., R. Samkharadze, Rosnadze T. |
| 7 | Distributed Complex Network in the Field of Management of Modes of Power System | Printed | Abstracts. 9th Silk Road International Conference on Business, Economics, International Relations and Education. May 23-25. 2014. Tbilisi, Georgia. | 5 p. | D. Chikovani, L. Gachechiladze, Z. Jojua |
| 8 | Program Maple capabilities and its use in Mathematics Teaching Matters | Printed | "Technical University of Georgia", works. Automated management systems N1(19). 2015 | p. 121-124 | M. Kevkhishvili, E. Kamkamidze |
| 9 | Innovative devices in teaching physics and mathematics in secondary schools | Printed | Tbilisi, "Technical University of Georgia", works. "Business-engineering", №1, 2015 | p. 188-191 | M. Kevkhishvili, E. Kamkamidze |
| 10 | Procedural model of experimental researches in infrared moisture meter | Printed | Tbilisi, "Georgian Technical University", Papers. „Business engineering", №1, 2015 | p. 162-164 | Nozadze Ts., Rosnadze T., Gachechiladze L. |
| 11 | Information system for teaching higher mathematics | Printed | Tbilisi, "Technical University of Georgia", works. "business engineering", №1, 2015 | p. 185-187 | |

| 1 | 2 | 3 | 4 | 5 | 6 |
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| 12 | Development of a software tutorial for teaching matrix and vector multiplication | Printed | "Technical University of Georgia", works. Automated management systems. №1(19). 2015. | p. 125-127 | |
| 13 | Structure of Higher Mathematics Teaching Software | Printed | Archil Eliashvili Management Systems Institute of Georgia Technical University. A collection of works. №19, 2015. თბილისი. ISSN 0135-0765 | p. 159-163 | M. Kiknadze |
| 14 | Tests collection in the course "Transact-SQL Language" (A guidebook) | Printed | Tbilisi, "IT-Consulting Scientific Center" of GTU, 2016. ISBN 978-9941-0-8559-8 | 292 p. | R. Samkharadze |
| 15 | Development of a research prototype of an expert system for infrared moisture meter (Monograph) | Printed | Selected issues of modern science. Monograph. Part XX. / Scientific Editor. Prof. S.P. Akutina. - M.: Publishing house "Pero", 2016. – 259 p. ISBN 978-5-906851-56-7. | p. 134-165 | Nozadze Ts., R. Samkharadze, Kurdadze M., Nozadze S. |
| 16 | SQL Server (Book) | Printed | Tbilisi, Publishing house "Technical University", 2016. ISBN 978-9941-20-661-0 | p. 453 | R. Samkharadze |
| 17 | Development of Interface of Technologist of Power System | Printed | 11th International Silk Road Conference on Innovations in Business, Education and Sciences. May 20-21, 2016. Tbilisi, Georgia. ISBN 978-9941-0-9681-5. | p. 313-316 | R. Sankharadze, D. Chikovani, M. Kalabegishvili |
| 18 | Methods for developing programs for differentiated learning | Printed | IX International Scientific Conference "Education Management: Current Challenges and Development Perspectives" 18-19 November, 2016. Gori. Gori State Teaching University. | p. 29-31 | I. Gigiberia, R. Samkharadze |
| 19 | Using of Queue theory in computer learning (Monograph) | Printed | Tbilisi, "IT-Consulting Scientific Center" of GTU, 2017. ISBN 978-9941-0-9643-3 | p. 93 | R. Samkharadze, M. Kurdadze |
| 20 | Modeling the process of reducing system fluctuations in a computer network | Printed | Georgian Technical University. Papers. №1(503). 2017. ISSN 1512-0996. | p. 63-68 | R. Samkharadze, G. Kobakhidze |
| 21 | Development of Distributed Complex Network for Representation of Knowledge Base (Impact Factor) | Printed | Chinese Business Review, Sep. 2017, Vol. 16, No. 9, 464-470 doi: 10.17265/1537-1506/2017.09.005. | p. 464-470 | A. Prangishvili, M. Tervdoradze, R. Samkharadze, N. Lolashvili |
| 22 | Distance learning for students with special educational needs | Printed | Georgian Technical University. Papers. Automared Control Systems. № 2(24). 2017. ISBN 1512-3979-27-493-0 | p. 47-53 | I. Gigiberia, R. Samkharadze, M. Tevdoradze |
| 23 | Programming on C++ Language (Book) | Printed | "IT-Consulting Scientific Center" of GTU, 2018. ISBN 978-9941-27-493-0 | p. 247 | R. Samkharadze |

| 1 | 2 | 3 | 4 | 5 | 6 |
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| 24 | Develop of a training program for learning distribution of operating system resources | Printed | Georgian Technical University. Papers. №1(507). 2018. ISSN 1512-0996. | p. 32-41 | R. Samkharadze, I. Gigiberia |
| 25 | Develop of a training program for learning distribution of operating system resources | Printed | Georgian Technical University. Papers. №1(507). 2018. ISSN 1512-0996. | p. 42-50 | R. Samkharadze Kalabegishvili |
| 26 | Work with databases using ADO.NET technology (Based on C# Language) (Book) | Printed | "IT-Consulting Scientific Center" of GTU, 2018. ISBN 978-9941-8-0628-5 | p. 100 | R. Samkharadze |
| 27 | Modeling the process of visualization of certain functions of the operating system kernel (Monograph. Part V) | Printed | Scientific Ed. Dr. ped. sciences, prof. S.P. Akutin. - M .: Publishing House "Pero", 2018. - 228 p. ISBN 978-5-00122-192-0 (Total.) ISBN 978-5-00122-840-0 (Ч.5) | p. 31-51 | Samkharadze R.I., Benashvili A.M., Gochitashvili L.I. |
| 28 | Development of Methodology of the Bank Branches' Optimal Placement | Printed | Journal of Business. International Black Sea University. Volume 7  Issue 1. 2018. ISSN: 2233-369X  e-ISSN: 2346-8297 | P. 45-48 | R. Samkharadze, M. TEVDORADZE, M. KALABEGISHVILI |
| 29 | Programming for Windows (Based on C# Language) | Printed | "IT-Consulting Scientific Center" of GTU, 2019. ISBN 978-9941-8-1067-1 | P. 104 | R. Samkharadze |
| 30 | Administration of SQL Server Databases (Book) | Printed | International Black Sea University Ltd. 2019. ISBN 978-9941-8-1038-1 | P. 480 | R. Samkharadze |
| 31 | Virtual memory management model | Printed | Tbilisi, "Technical University of Georgia", works. "business engineering", №1-2, 2019 | p. 98-100 | |
| 32 | Algorithms of visualization management processes of operative memory | Printed | Georgian Technical University. Papers. №1(511). 2019. ISSN 1512-0996. | P. 65-72 | R. Samkharadze, M. Kurdadze |
| 33 | Algorithms of visualization resources management of operating system | Printed | Georgian Technical University. Papers. №1(511). 2019. ISSN 1512-0996. | P. 73-79 | R. Samkharadze, M. Kalabegishvili |
| 34 | Development of an information-teaching system for teaching higher mathematics (monograph) | Printed - დო | "IT-consulting scientific center" of GTU, 2019. ISBN 978-9941-8-1331-3 | p. 84 | |
| 35 | Simulation of visualization of memory management processes | Printed | III International Scientific Conference "Globalization and Current Challenges in Business". Georgian Technical University. 24-25.05.2019. | P. 279-282 | R. Samkharadze, M. Kiknadze |

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| 36 | Modeling the distribution of operating system resources | Printed | III International Scientific Conference "Globalization and Current Challenges in Business". Georgian Technical University. 24-25.05.2019. | P. 302-304 | R. Samkharadze,. Kiknadze |
| 37 | Working with database using ADO.N E T technology (Based on C ++) (Textbook) | Printed | "IT-Consulting Scientific Center" of GTU, 2019. ISBN 978-9941-8-1546-1 | P. 55 | R. Samkharadze |
| 38 | Development of security norms for electronic payment systems (Monograph) | Printed | "IT-Consulting Scientific Center" of GTU, 2019. ISBN 978-9941-8-1545-4 | P. 70 | K. Jhamurashvili, R. Samkharadze |
| 39 | SQL Server (Textbook) | Printed | GTU. Publishing House „Technical University". 2019. ISBN 978-9941-28-393-2 | P. 502 | R. Samkharadze |
| 40 | Modeling loads on lines in computer networks in the case of a single non-critical line | Printed | Georgian Technical University. Proceedings. Automated Control Systems. № 2(29). 2019. ISBN 1512-3979-27-493-0 | P. 82-85 | R. Samkharadz, S. Mikeladze, M. Kevkhishvili |
| 41 | Method for reducing system fluctuations in computer networks | Printed | Georgian Technical University. Proceedings. №1 (515), 2020. ISSN 1512-0996. DOI:https://doi.org/10.36073/1512-0996 | p. 40-45 | R. Samkharadz, S. Mikeladze |
| 42 | Load simulation on lines in computer networks in case of one critical line | Printed | Georgian Technical University. Proceedings. №1 (515), 2020. ISSN 1512-0996. DOI:https://doi.org/10.36073/1512-0996 | p. 46-51 | R. Samkharadz, S. Mikeladze |
| 43 | SIMULATION OF VISUALIZATION A DISK SCHEDULING OPERATIONS | Printed | International Scientific Conferences. Conferencii. Education, Law, Business. Collection of scientific articles. Cartero Publishing House. Madrid, Spain. 2020. 104 p. ISBN 978-2-5494-0322-3 | p. 74-76 | R. Samkharadze |
| 44 | Modelling of Processes Visualization of Operative Memory Management and Distribution of Resources of an Operating System | Printed | 14th International Silk Road Conference on Globalization: Trends and Perspectives. Silk Road 2019. Conference Proceedings. October 11-12, 2019. Tbilisi, Georgia. International Black Sea University, LLC. ISBN 978-9941-8-2211-7 | p. 241-245 | Samkharadze R., Kurdadze M., Kalabegishvili M. |
| 45 | Develop a methodology for resolving conflicts between product rules on the example of power system management (monograph) | Printed | GTU "IT-Consulting Scientific Center", 2020. ISBN 978-9941-8-2188-2 | p. 73 | R. Samkharadze, D. Chikovani, M. Kevkhishvili |

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| 46 | Programming for Windows (based on C ++ language) (auxiliary guide) | Printed | GTU "IT-Consulting Scientific Center", 2020. ISBN 978-9941-8-2191-2 | p. 83 | R. Samkharadze, M. Kevkhishvili |
| 47 | Programming on C++ Language (Textbook) | Printed | GTU "IT-Consulting Scientific Center", 2020. ISBN 978-9941-8-2190-5 | p. 294 | R. Samkharadze, L. Gochitashvili |
| 48 | Theory of building software simulators (monograph) | Printed | GTU "IT-Consulting Scientific Center", 2020. ISBN 978-9941-8-2189-9 | p. 216 | R. Samkharadze, L. Gochitashvili, M. Kalabegishvili |
| 49 | VIRTUAL STORAGE MANAGEMENT VISUALIZATION ALGORITHMS | Printed | International Scientific Conferences. Business Management, Economics and Social Sciences. 23.10.2020. Conference proceedings. Agenda Publishing House LTD · London, UK · 2020. – 204 p. ISBN 978-2-5494-0318-8 | P. 197-199 | R. Samkharadze |
| 50 | DEVELOPMENT A TRAINING SYSTEM FOR TEACHING THE CALCULATING OF THE DETERMINANT OF A MATRIX | Printed | International Scientific Conferences. Economics, Business and Social Sciences. 25.12.2020. Conference proceedings. Verlag SWG imex GmbH Nuremberg, Germany · 2020. – 204 p. ISBN 978-2-5494-0318-8 | P. 178-180 | |
| 51 | Problems of computer networks and methods of their solution (methodical instructions) | Printed | GTU "IT-Consulting Scientific Center", 2021. ISBN 978-9941-8-2462-3 | P. 39 | R. Samkharadze |
| 52 | DEVELOPMENT A TRAINING SYSTEM FOR TEACHING THE CALCULATING OF THE INDEFINITE INTEGRAL | Printed | International Scientific Conferences. Research and Practice. 25.06.2021. Confer ence proceedings. Lardy Publishing House Paris, France, 2021. 164 p. ISBN 978-2-5355-4891-7 | p. 145-148 | R. Samkharadze, M. Kevkhishvili |
| 53 | DEVELOPMENT A TRAINING SYSTEM FOR TEACHING THE CALCULATING OF A FUNCTION'S DERIVATIVE | Printed | International Scientific Conferences. Research and Innovation. 26.03.2021. Conference proceedings. Yunona Publishing New York, USA 2021. – 203 p. ISBN 978-0-9860467-9-8 | P. 198-202 | R. Samkharadze |

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| 54 | DEVELOPMENT OF AN ALGORITHM FOR QUICK DETERMINATION AND CALCULATION OF THE NUMBER OF WORKING STATES OF STRUCTURAL-COMPLEX SYSTEMS | Printed | The VII International Scientific and Practical Conference «Innovative trends in science, practice and education», February 22 – 25, 2022, Munich, Germany. ISBN - 979-8-88526-758-8 DOI - 10.46299/ISG.2022.I.VII | 484-487 p. | R. Samkharadze |
| 55 | DEVELOP OF A TRAINING SYSTEM FOR TEACHING MATRIX INVERSION | Printed | The IX International Scientific and Practical Conference «Advancing in Research, Practice and Education», March 08 – 11, 2022, Florence, Italy. ISBN - 979-8-88526-745-8 DOI - 10.46299/ISG.2022.I.IX | 78-81 p. | R. Samkharadze |
| 56 | DEVELOPMENT OF AN INFORMATION SYSTEM FOR TRAINING PLANNING WORK WITH MAGNETIC DISKS | Printed | MODERN PROBLEMS IN SCIENCE Proceedings of the X International Scientific and Practical Conference Vancouver, Canada March 15 – 18, 2022. ISBN - 979-8-88526-746-5 DOI - 10.46299/ISG.2022.I.X | 186-190 p. | R. Samkharadze |
| 57 | INFORMATION SYSTEM FOR TEACHING VIRTUAL MEMORY MANAGEMENT | Printed | MULTIDISCIPLINARY ACADEMIC NOTES. THEORY, METHODOLOGY AND PRACTICE. Proceedings of the XVII International Scientific and Practical Conference. Tokyo, Japan May 03 – 06, 2022. ISBN – 979-8-88526-741-0 DOI – 10.46299/ISG.2022.1.17 | 531-534 p. | R. Samkharadze |
| 58 | ANALYSIS AND DIRECTIONS OF USE OF EXPERT SYSTEMS IN THE FIELD OF ENERGY | Printed | Transactions. Georgian Technical University. Automated Control Systems. 1(33), 2022. | 94-100 | Roman Samkharadze, Mirian Kalabegishvili, Marina Kurdadze |
| 59 | MySQL Server (The guidbook) | Printed | GTU "IT-Consulting Scientific Center", 2022. ISBN 978-9941-8-4822-3 | 67 p. | Roman Samkharadze |
| 60 | Expert systems in infrared moisture (Monograph) | Printed | "IT-consulting scientific center" of GTU, 2022. ISBN 978-9941-8-4892-6 | 116 p. | Tsiuri Nozadze, Roman Samkharadze, Tamar Rosnadze |
| 61 | Visual C#.NET (Manual) | Printed | Georgian Technical University. © Publishing house "Technical University", 2022 ISBN 978-9941-28-883-8 | 600 p. | Roman Samkharadze |

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| 62 | Critical analysis of human factor cyber-attacks | Printed | Georgian Technical University. Faculty of Business Technologies. Government and society. Tbilisi. XVI International Scientific Conference. Publishing House "Technical University", 2022. ISBN 978-9941-28-289-7 | P. 276 - 283 | Sakhvadze G, Samkharadze R., Kiknadze M. | |
| 63 | PRODUCTION MODEL FOR DIAGNOSIS OF PATIENTS WITH NEUROLOGICAL COMPLAINTS | Printed | The 11th International scientific and practical conference "Problems of the development of science and the view of society" (March 21 – 24, 2023) Graz, Austria. International Science Group. 2023. 435 p. ISBN – 979-8-88896-521-4 DOI – 10.46299/ISG.2023.1.11 | 382-388 p. | Samkharadze R., Kiknadze M., Cholikidze M. | |
| 64 | THE DEVELOPMENT OF EXPERT SYSTEM FOR DISEASE DIAGNOSIS IN CLINICAL NEUROLOGY | Printed | The 14th International scientific and practical conference "Development, education, culture: integration trends in the modern world" (April 11 – 14, 2023) Oslo, Norway. International Science Group. 2023. 585 p. ISBN – 979-8-88955-325-0 DOI – 10.46299/ISG.2023.1.14 | 491-494 p. | Samkharadze R., Kiknadze M., Cholikidze M. | |
| 65 | A collection of tests on the subject "Algorithmization Fundamentals and Programming Elements" | Printed | "IT-consulting scientific center" of GTU, 2023 ISBN 978-9941-8-5445-3 | P. 106 | Roman Samkharadze, Marina Kurdadze, Mirian Kalabegishvili | |
| 66 | DEVELOPMENT OF A PRODUCTION MODEL FOR THE DIAGNOSIS OF CARDIOVASCULAR DISEASES | Printed | International Scientific and Practical Conference "Theoretical Foundations Of Scientists And Modern Opinions Regarding The Implementation Of Modern Trends". San Francisco, USA. June 27 – 30, 2023. ISBN – 979-8-88992-684-9 DOI – 10.46299/ISG.2023.1.25 | 416-419 p. | Samkharadze R., Rosnadze T. | |
| 67 | Algorithm for making logical conclusions | Printed | Education. Quarterly refereed and peer-reviewed scientific journal. GTU. 2(41)2023. ISSN 2346-8300. DOI: https://doi.org/10.36073/2346-8300 | P. 162-166 | Samkharadze R., Kiknadze M., Cholikidze M. | |

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| 68 | Planning and Automation of Information Security Awareness Training (**Impact Factor**) | Printed | Georgian Scientists. Vol. 5 Issue 3, 2023 https://doi.org/10.52340/gs.2023.05.04.05. E-ISSN 2667-9760 | P. 48-54 | Samkharadze Roman, Kiknadze Mzia, Sakhvadze Giorgi, Acharadze Guram |
| 69 | Enguri HPP Arch Dam Temperature Field Analysis | Printed | Scientific_Technical Journal, "BUILDING". #2(66), 2023. ISSN 1512-3936. DOI:thhps://doi.org/10.36073/1512-3936 | P. 57-62 | M. Kalabegishvili, D. Chania, M. Sadunishvili, R. Samkharadze |
| 70 | DEVELOPMENT OF A TRAINING SYSTEM FOR TEACHING MATRIX DETERMINANT CALCULATION | Printed | International Scientific and Practical Conference "Scientific Projects On Improving The Environment". Brussels, Belgium. October 17 – 20, 2023. ISBN – 979-8-89145-191-9 DOI – 10.46299/ISG.2023.2.25 | P. 123-126 | Gachechiladze L. |

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