

Prof. Dr. Gia Surguladze
Georgian Technical University (Tbilisi) – (2014-2024)
(BOOKS and ARTICLES IN JOURNALS)

1. Web-Application Building Technology with Microservice Architecture. Monogr., ISBN 978-9941-8-6333-2. GTU „IT-Consulting scientific center”, Tbilisi, 2024. -302 p. (in Georgian)
2. Software Development and Testing Technologies (CASE, UML, Agile). Monogr., ISBN 978-9941-8-6334-9. GTU. „IT-Consulting scientific center”, Tbilisi, 2024. -303 p. (in Georgian)
3. Gogichaishvili G., Topuria N., Petriashvili L., Surguladze G. The Importance of Neutral Content in Sentiment Analysis with Artificial Intelligence Model. Print Bulletin "Moambe", vol. 18, N 2. Georg. National Academy of Sciences. Tbilisi, 2024., pp.52-56 (**Impact Factor**)
4. Automated Construction Technology of Black Sea Ecomonitoring Information System. *IEEE International Black Sea Conference on Communications and Networking. 24–27 June 2024 // Tbilisi, Georgia*
5. Technology of Building a Network of Automated Workplaces of the Corporation (the first Georgian ERP system - 1990). ISBN 978-9941-8-5109-4. Monograph. GTU. "IT-Consulting Scientific Center". Vol., 2023, 331 p. (in Georgian)
6. Information Society and Didactics of Informatics. ISBN 978-9941-8-5443-9. Monograph. GTU. "IT-Consulting Scientific Center", Vol., 2023. 260 p.
7. The Information Society: Publisher Marketing and Machine Learning. ISBN 978-9941-8-5442-2. Monograph. GTU. "IT-Consulting Scientific Center", Vol., 2023. 216 p.
8. The historical role of the UNESCO chair of the Technical University of Georgia in the process of formation of the information society. Trans. of GTU. "Automated Control Systems- ACS"-N1(35), 2023. DOI: <https://doi.org/10.36073/1512-3979. pp. 5-10>
9. Nareshelashvili G. Information society and unified modeling of the educational process. International scientific-practical conference: "Modern challenges and achievements in information and communication technologies". 12-13.10 2023. GTU, Tbilisi, p. 11-19
10. Peculiarities of the development of databases of the company's management system. International scientific-practical conference: "Modern challenges and achievements in information and communication technologies". 12-13.10, 2023, GTU, Tb., p. 95-103
11. Information society and didactics of informatics. IX in the world. Conf. "Internet and Society" (INSO-2023). ISBN 978-9941-455-43-8. Kutaisi, 90th anniversary of Ak. Tsereteli University. 6-7.10. 2023, p. 5-9
12. Security and Machine Learning Algorithms. IX in the world. Conf. "Internet and Society" (INSO-2023). ISBN 978-9941-455-43-8. Kutaisi, 90th anniversary of Ak. Tsereteli University. 6-7.10. 2023, pp. 103-107
13. Application programming and data management. ISBN 978-9941-8-3810-1. State name, GTU. "IT-consult. Scientific Center". Vol., 2022, -135 p.

14. Fundamentals of software engineering. (Course project method. No.). ISBN 978-9941-8-3808-8 State name, GTU. "IT-consult. Scientific Center". Vol., 2022, -200 p.
15. Development of software products (course project method). ISBN 978-9941-8-3809-5. State name, GTU. "IT-consult. Scientific Center". Vol., 2022, -250 p.
16. Data warehouse construction technology for Internet business systems. ISBN 978-9941-8-0623-0, monograph. GTU, Tb., 2022. 200 p.
17. Global processes of economy's sustainable development, information society, systems and technologies. Kyiv, Ukraine, Nov. 2022. ISSN 1613-0073, pp. 224-234. <https://ceur-ws.org/Vol-3530/> (Impact Factor)
- 18. Designing Eco-Monitoring Information System for the Black Sea Coastline Based on Modern Digital Technologies.** Print Bulletin "Moambe", vol. 16, N 2. Georg. National Academy of Sciences. Tbilisi, 2022., pp.29-34 (**Impact Factor**)
19. Information Society and Interdisciplinary Didactics of Informatics. ISBN 978-1-8380555-5-4 (PDF). Education and science of today: intersectoral issues and development of sciences: Collection of scientific papers «ΛΟΓΟΣ» with Proceedings of the IV International Scientific and Practical Conference, Cambridge, December 9, 2022. **Cambridge**-Vinnytsia: P.C. Publishing House & European Scientific Platform, 2022. DOI [10.36074/logos-09.12.2022](https://doi.org/10.36074/logos-09.12.2022). ,pp. 114-117.
20. Lean management, DevOps, Agile Soft-ware Ddevelopment for Robotic Process Automation. Trans. of GTU, " Automated Control Systems", No 1(33), vol. 1, Tb., 2022. -pp.51-57. DOI: <https://doi.org/10.36073/1512-3979>
21. Technical University of Georgia is 100 years old - Some historical innovative scientific results in the Department of "Automated Control Systems (Software Engineering)". Trans. of GTU. "ACS"-N2(34), issue, 2022, pp. 7-26. DOI: <https://doi.org/10.36073/1512-3979>
22. Art-Production-Science (Historical Fragment) The first Georgian ERP system and development trends. Trans. of GTU. "ACS"-N2(34), issue, 2022, pp. 27-34. DOI: <https://doi.org/10.36073/1512-3979>
23. Building management information systems with clean architecture in ASP.NET Core environment. Trans. of GTU. "ACS"-N2(34), issue, 2022, p. 55-62. DOI: <https://doi.org/10.36073/1512-3979>
24. The Technical University of Georgia is 100 years old - the contribution of academician Gocha Chogovadze, the founder of the "Automated Management Systems" department, in the field of education and science development. Trans. of GTU. "ACS"-N1(33), vol.2, tb., 2022, p. 7-24. DOI: <https://doi.org/10.36073/1512-3979>
25. Distributed transaction management in microservices architecture using pattern approaches ("Saga Pattern"). Trans. of GTU. "ACS"-N1(32), Vol,1, Tb., 2022, p. 58-65. DOI: <https://doi.org/10.36073/1512-3979>
26. Creation of a single municipal "hotline" information base and automation of data management. Trans. of GTU. "ACS"-N1(32), Vol,1, Feb., 2022, p. 142-148. DOI: <https://doi.org/10.36073/1512-3979>

27. Innovative didactics of informatics: 100 books - for the 100th anniversary (history and reality). International Scientific-Practical Conference "Innovations and Modern Challenges". ISBN 978-9941-28-944-6. GTU, Tbilisi, November 18-19, 2022, pp. 11-16
28. Information society and interdisciplinary learning based on digital technologies. ISBN 978-9941-8-3338-0. Monograph. GTU, Tbilisi, 2021. 360 p.
29. Software development of corporate management systems (WCF/WPF, SOA). (Course project method. Myth.) - Master. 978-9941-8-2725-9. GTU, Tbilisi, 2021, 80 p.
30. Informatics - "Software Engineering" (undergraduate thesis method). 978-9941-8-2927-7. GTU, Tbilisi, 2021, 42 p.
31. The Chair of Automated Management Systems is 50 years old - its role in the field of education and science development. Trans. of GTU. "ACS"-N1(32), Vol,1,1. Tbilisi, 2021, pp. 13-20. DOI: <https://doi.org/10.36073/1512-3979>
32. Integrated information infrastructure of the higher educational institution of Georgia. Trans. of GTU. "ACS"-N1(32), Vol,1,1. Tbilisi, 2021, p. 145-150. DOI: <https://doi.org/10.36073/1512-3979>
33. Designing an integrated decision using Azure SQL and Power Platform. Trans. of GTU. "ACS"-N1(32), Vol,1,1. Tbilisi, 2021, p. 139-144. DOI: <https://doi.org/10.36073/1512-3979>
34. Innovative approaches to database security. Improvement of educational institution management processes using information technologies. Trans. of GTU.: "ACS"-N1(32), Vol,1,2. Tbilisi, 2021, p. 347-351. DOI: <https://doi.org/10.36073/1512-3979>
35. Modeling of Emergency Medical Service in Flu Season: Algorithm for Dispatching Ambulance Units. Georg. National Academy of Sciences. Bulletin "Moambe", vol. 12, N.4. Tb., 2018, pp. 47-52.
36. Applied software engineering: contemporary challenges and its role in the formation of the information society. Trans. of GTU. "ACS", 2020, N2(31). Vol., p.7-11. DOI: <https://doi.org/10.36073/1512-3979>
37. Christosashvili Kh. Teaching the solution of some practical management problems using the theory of queues. Trans. of GTU. "ACS", 2020, N2(31). Vol., p.7-11. DOI: <https://doi.org/10.36073/1512-3979>
38. Implementation of a Prediction Model with Cloud Services. Bulletin "Moambe", vol. 14, N.3, Georg. National Academy of Sciences. Tbilisi, 2020, pp.29-35 (impact factor)
39. Building an information system supporting logistics management. ISBN 978-9941-8-2487-6. Monograph. GTU. "IT-consulting center". Tb., 2020. -350 p. (B5)
40. Quality management of software applications: testing and optimization. ISBN 978-9941-20-629-2. Monograph. GTU. "IT-consulting center". Tb., 2020. -363 p.
41. Contemporary challenges of "informatics" as an interdisciplinary science and strategic tasks of the doctoral program of the Technical University of Georgia. "Automated control systems", N1(30). 2020. pp. 5-10; DOI: <https://doi.org/10.36073/1512-3979>
42. Basics of mobile application development (Java, Android). Monograph.-title., ISBN 978-9941-8-2488-3. GTU. "IT Consulting Scientific Center". 2020. -176 p.

43. User Interface Development (AngularJS, ReactJS). ISBN 978-9941-8-0625-4. GTU. "Techn.Univ.", Tb., 2019. -106 p.
44. Visual C # programming for information systems (on the platform of Visual Studio .NET 2019). ISBN 978-9941-8-1708-3. GTU. "Techn.Univ.", Tb., 2019. -200 p.
45. Software Quality Management: Testing and Optimization. ISBN 978-9941-20-629-2. GTU. "Techn.Univ.", Tb., 2019. -250 p.
46. Development of Software Applications using Virtualization. ISBN 978-9941-8-0627-8. GTU. "Techn.Univ.", Tb., 2019. -159 p.
47. Virtual Reality and modern Information Technologies. ISBN 978-9941-8-0626-1. GTU. "Techn.Univ.", Tb., 2018. -112 p.
48. Black Sea Ecological Monitoring and Research Information System. ISBN 978-9941-8-0624-7. GTU. "Techn.Univ.", Tb., 2018. -204 p.
49. Hybrid Software Technologies and Data Engineering for Management Information Systems. ISBN 978-9941-20-790-7. Monogr., GTU, Tbilisi, 2017. -1001 p.
50. Visual Programming (C#.NET, Workflow Foundation.NET). ISBN 978-9941-20-880-5. GTU, Tbilisi, 2017. -232 p.
51. Network Architecture for Business. ISBN 978-9941-0-9842-0. GTU, Tbilisi, 2017. -269 p.
52. Introduction to NoSQL Databases. ISBN 978-9941-0-9642-6. GTU, Tbilisi, 2017. -152 p.
53. Data Management Modern Technologies (Oracle, MySQL, MongoDB,Hadoop). ISBN 978-9941-27-176-2. GTU, Tbilisi, 2017. -202 p
54. Corporate Management Systems Programming Technology. ISBN 978-9941-0-9843-7. Monogr., GTU, Tbilisi, 2017. -104 p.
55. Programming Hybrid Technologies and Data Management. ISBN 978-9941-0-8692-2. GTU, Tbilisi, 2016. -272 p.
56. The Basics of Software Systems Management. ISBN 978-9941-20-651-1. GTU, Tbilisi, 2016. 350 p.
57. Software Project Management (Laboratory Practice). ISBN 978-9941-0-8558-1. GTU, Tbilisi, 2016. -180 p
58. Modeling and Automation of Business Processes for Organizational Management. ISBN 978-9941-8259-7. Monogr., GTU, Tbilisi, 2016. -204 p.
59. Web-Applications Testing, Validation and Verification.. ISBN 978-9941-0-7682-4. Monogr., GTU, Tbilisi, 2015. -205 p.
60. Windows Development of Corporate Management Systems: WPF, WF and WCF Technologies. Part. 1-3. ISBN 978-9941-0-7103-4, GTU, Tbilisi, 2015. -490 p.
61. Modeling and Analysis of Enterprise Resource Management Busniness Process. ISBN 978-9941-20-557-6. Monogr., GTU, Tbilisi, 2015. 167 p. http://gtu.ge/book/gia_sueguladze/GiaSurgul_BPMN_ERP_2014.pdf
62. Construction of Information Systems with Multimedia Databases. ISBN978-9941- Monogr., GTU, Tbilisi, 2014. 345 p. http://gtu.ge/book/gia_sueguladze/2giasurg.pdf

63. International Experience in Information Systems Management (BSI, ITIL, COBIT). ISBN978-9941-20-458-6. GTU, Tbils, 2014. 320 p.
64. Automation of Web-portal and Database Construction Processes for the Black Sea Ecosystem Monitoring. International Journal of Environmental and Ecological Engineering. World Academy of Scientific (WASET). v.12, N1, 2018, pp.169-174
65. Formation of Big Data Research Center. Transact.of GTU, "Automated Control Systems-2(26), Tb., 2018, pp.189-191.
66. Construction of the Multimedia Databases and Users Interfaces for Ecological System of Black Sea with Orm/Erm. in ebook "Information and Computer Technology, Modeling and Control". ISBN: 978-1-53612-094-3. Series: Computer Science, Technology and Applications. Nova Science Publishers. © Copyright, 2017, 3rd Quarter. USA. Chapt.45, - pp.1-8
67. From Information Systems to Information Society. Transact. of GTU "Automated Control Systems". ISSN 1512-3979. N1(23). 2017, pp. 7-16.
68. Data Storage and Processing Distributed Systems. Transact. of GTU "Automated Control Systems". ISSN 1512-3979. N1(23). 2017. Pp.79-83
69. Mobile Means of Communications in Emergency Situations. Transact. of GTU "Automated Control Systems". ISSN 1512-3979. N1(23). 2017. Pp. 205-210 Web-Service Implementation of the Black Sea Rivers for Estuaries Monitoring System. Transact. of GTU "Automated Control Systems". ISSN 1512-3979. N2(22). 2016. Pp. 190-193
70. Management Information Systems and Software Engineering: Innovations in University Education. Transact. of GTU "Automated Control Systems". ISSN 1512-3979. N1(21). 2016. Pp.9-24
71. Construction of Corporate Application with Service-Oriented Software Technologies. Transact. of GTU "Automated Control Systems". ISSN 1512-3979. N1(21). 2016. Pp.230-235.
72. Assessment of Information Security Risks of Business Processes for Financial Organization and ITServices. Transact. of GTU "Automated Control Systems". ISSN 1512-3979. N1(21). 2016. Pp.248-253
73. Modelling of Designing a Conceptual Schema for Multimodal Freight Transportation Information System. World Academy of Scientific, Engineering and Technology, v.9, N11. ISSN 1307-6892. 2015. pp. 204-207.
74. Construction of Multimodal Freight Forwarding MIS using CASE Design and Hybrid Programming Technologies. Transactions of Georgian Technical University „Automated Control Systems“, No 2(20), 2015. pp.96-107.
75. Software Development Life Cycle in the Latest Versions of Visual Studio.Net Framework Package. Transactions of Georgian Technical University „Automated Control Systems“, No 2(20), 2015. pp.212-222.
76. Models and Methods for Assessing Organizational-technical Level and Credit Risks of a Manufacturing Company. Transactions of Georgian Technical University „Automated Control Systems“, No 1(19), 2015. pp.128-142.
77. Construction of Electronic Election System with Multimedia Databases and Client-Server Architecture. GESJ: Computer Science and Telecommunications, 2014, N2(42). ISSN 1512-1232, Impact Factor: 0.8125. pp.39-85.
78. Construction of Management Information Systems of Distributed Business Processes Based on Petri Networks and Object-Role Modeling. Bulletin of Georg. National Academy of Sciences "Moambe", vol. 8, N1. Tbilisi. 2014. pp. 58-64.

79. Modern Information Technologies in Management of Marketing Processes and Production.
ISSN1512-3979. Trans.of GTU "Automated Control Systems", N1(17), 2014. p.64-71.

80. Design of Information System on Based of Object-Role Modelling and Service-Oriented
Architecture. ISSN 1512-3979. Trans.of GTU "Automated Control Systems", N1(17), 2014. pp.32-45.