

## Scientific and Teaching-Methodical Works List

**Mzia Kiknadze**

| #                          | Name of Scientific Works                                                                       | Publication, Journal (Number, Year)<br>gamomcemloba, Jurnal (nomeri, weli) and ISBN/ISSN/E-ISSN                                                                                                                                                                  | Pages     | Co-authors surnames and names                                                        |
|----------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------|
| 1                          | 2                                                                                              | 3                                                                                                                                                                                                                                                                | 4         | 5                                                                                    |
| <b>Scientific Articles</b> |                                                                                                |                                                                                                                                                                                                                                                                  |           |                                                                                      |
| 1.                         | “Innovative model design for the management of regional sustainable development”               | Essays On Economics & International Relations<br>First Edition, November 2023<br>Ijopec Publication No: 2023/05<br>ISBN: 978-1-913809-33-1                                                                                                                       | pp. 59-68 | Mzia Kiknadze,<br>David Kapanadze,<br>Lily Petriashvili                              |
| 2.                         | “Digitalization of Railway Transportation as a Factor for Improving the Quality of the Service | Conference Book, International Conference on Applied Mathematics & Computer Science (ICAMCS); IEEE Catalog Number: CFP23T98-ART; ISBN: 979-8-3503-2426-6; DOI 10.1109/ICAMCS59110.2023.00031                                                                     |           | L. Petriashvili, Z. Modebadze, T. Lominadze, M. Kiknadze, N. Otkhozoria, T. Zhvania, |
| 3.                         | Deep Learning with Incentives under Constraints                                                | Bulletin of the Georgian National Academy of Sciences „MOAMBE”, Vol.17, n.3, 2023                                                                                                                                                                                | p 22-26   | Archil Prangishvili, Oleg Namicheishvili, Zhuzhuna Gogiashvili                       |
| 4.                         | Planning and Automation of Information Security Awareness Training ( <b>Impact Factor</b> )    | Georgian Scientists. Vol. 5 Issue 3, 2023<br><a href="https://doi.org/10.52340/g.s.2023.05.04.05">https://doi.org/10.52340/g.s.2023.05.04.05</a> . E-ISSN 2667-9760                                                                                              | P. 48-54  | Samkharadze R, Sakhvadze Giorgi, Gachechiladze Lia, Acharadze Guram                  |
| 5.                         | Production model for diagnosis of patients with neurological complaints                        | 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   | Samkharadze R. Cholikidze M., Gachechiladze L                                        |
| 6.                         | The development of expert system for disease diagnosis in clinical neurology                   | The 14th International Scientific and practical conference “Development, education, culture: integration trends in the modern world” (April 11 – 14, 2023) Oslo,                                                                                                 | 491-494 p | Samkharadze R. Cholikidze M., Gachechiladze L.                                       |

|     |                                                                                                         |                                                                                                                                                                                                                                                                                                                      |              |                                                              |
|-----|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------|
|     |                                                                                                         | Norway. International Science Group. 2023. 585 p.<br>ISBN – 979-8-88955-325-0<br>DOI – 10.46299/ISG.2023.1.14                                                                                                                                                                                                        |              |                                                              |
| 7.  | “Analysis Of Factors Affecting On E-Governance And Development Of A Cognitive Model Of Its Development” | Innovative Economics and Management", Vol 9 No 3 (2022), ISSN 2449-2418; E-ISSN 2449-2604, DOI prefix: 10.46361                                                                                                                                                                                                      | pp. 126-134  | David Kapanadze, T. Zhvania, Lili Petriashvili,              |
| 8.  | Planning and automation of information security awareness training                                      | 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                                                                                                      | pp.276 - 283 | Samkharadze R, Sakhvadze Giorgi, Gachechiladze Lia           |
| 9.  | THE DEVELOPMENT OF EXPERT SYSTEM FOR DISEASE DIAGNOSIS IN                                               | 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., Gachechiladze L. |
| 10. | Machine Intelligence In The Service Of Human Intelligence”                                              | XIII Annual International Conference of the Union of Mechanics of Georgia, Batumi, August 24-26, 2022 ,                                                                                                                                                                                                              |              | Namicheishvili O., Gogiashvili J., Kiknadze M., Gvaramia E.  |
| 11. | Factors Affecting Sustainable Development and Modelling                                                 | Springer International Publishing<br>Published in: Recent Developments in Mathematical, Statistical and Computational Sciences, 2021<br>Print ISBN 978-3-030-63590-9<br>Online ISBN 978-3-030-63591-6<br>DOI <a href="https://doi.org/10.1007/978-3-030-63591-6_61">https://doi.org/10.1007/978-3-030-63591-6_61</a> | pp. 669-679  | Z.Gasitashvili, T. Zhvania D. Kapanadze                      |
| 12. | Critical analysis of human factor cyber-attacks                                                         | Technical University of Georgia, Faculty of Business Technologies. From the series of monographs "Globalization and modern challenges of business", publishing house "Technical University", Tbilisi 2022,                                                                                                           |              | Samkharadze R, Sakhvadze G., Gachechiladze L                 |
| 13. | Analysis and methodology of factors affecting the sustainable                                           | "Innovations and contemporary challenges" of the international scientific-practical conference dedicated to the 100th anniversary of the Georgian                                                                                                                                                                    |              | Z.Gasitashvili. M.Kiknadze, N. tsiklauri                     |

|     |                                                                                                                    |                                                                                                                                                    |             |                                                                        |
|-----|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------|
|     | development of the region                                                                                          | Technical University and the 65th anniversary of the IMS faculty<br>2022                                                                           |             |                                                                        |
| 14. | Pattern recognition reliability prediction for compact patterns                                                    | Materials of the International scientific-practical conference: Modern trends in science and education. Sofia, 2021                                | pp. 68-73   | T. Todua,<br>T. Zhvania,<br>D. Kapanadze                               |
| 15. | Survey of some Tendencies of Deep Learning                                                                         | Bulletin of the Georgian National Academy of Sciences „MOAMBE”,<br>ISSN - 0132 - 1447<br>2022 Vol.16No.3                                           | pp. 17-21   | Archil Prangishvili,<br>Oleg Namicheishvili,<br>Zhuzhuna Gogias-hvili  |
| 16. | Analysis of factors affecting organizational systems, by using the example of the development of conflict regions. | Materials of the International scientific-practical conference: Innovative processes in the scientific environment Prague, 2021.                   | pp. 63-71   | ,<br>T. Todua,<br>D. Kapanadze.                                        |
| 17. | BIG DATA ANALYSIS AND USE                                                                                          | XI International scientific-practical conference «MODERN ASPECTS OF SCIENCE AND PRACTICE», November 30-December 03, 2021, Melbourne, Australia     | pp. 514-515 | M. Magradze<br>Kiknadze M.,                                            |
| 18. | "Philosophy of Deep Learning"                                                                                      | "Engineering News of Georgia" 2021, N 1, Vol. 92,                                                                                                  | pp. 63-67   | Archil Prangishvili,<br>Oleg Namicheishvili,<br>Zhuzhuna Gogias-hvili  |
| 19. | About output signal generation in recurrent neural networks"                                                       | Bulletin of the Georgian National Academy of Sciences „MOAMBE”,<br>Vo. 15, N 2,                                                                    | pp. 40-46   | Archil Prangishvili,<br>Oleg Namicheishvili,<br>Zhuzhuna Gogias-hvili  |
| 20. | On long-short-term memory in recurrent neural networks                                                             | XXXV International Extended Sessions of the Ivane Javakhishvili Tbilisi State University Ilia Vekua Institute of Applied Mathematics Seminar 2021  |             | Oleg Namicheishvili,<br>Zhuzhuna Gogias-hvili'<br>G. Acharadze         |
| 21. | Model for the Sustainable Development of The Georgian Regions                                                      | Contemporary Business Challenges in a Globalized World (v.3)<br>ISBN:978-620-4-73532-0<br>2022                                                     | pp. 36-48   | .Prangishvili, O.<br>namicheishvili,<br>Z.gasitashvili,<br>D. Verulava |
| 22. | About the Algorithms of Strategic Management                                                                       | Publisher: Springer<br>International Publishing<br>Published in: Recent Developments in Mathematical, Statistical and Computational Sciences, 2021 | pp. 647-654 | Manana Chumburidze, ·<br>Nino Topuria, Elza Bitsadze                   |

|     |                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                             |               |                                          |
|-----|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------|
|     |                                                                                                     | <a href="https://link.springer.com/chapter/10.1007/978-3-030-63591-6_59?fbclid=IwAR0j94FGfJzxvfwp-OT8Vx58OmKp0Ty-b0uN_zqVLZYCcIr-sKgo8L2cqcU">https://link.springer.com/chapter/10.1007/978-3-030-63591-6_59?fbclid=IwAR0j94FGfJzxvfwp-OT8Vx58OmKp0Ty-b0uN_zqVLZYCcIr-sKgo8L2cqcU</a><br>Print ISBN 978-3-030-63590-9<br>Online ISBN 978-3-030-63591-6<br>DOI: 10.1007/978-3-030-63591-6_59 |               |                                          |
| 23. | Data mining concept, using and data processing stages                                               | GTu, Scientific Works Automated Control Systems N1 (32). Tbilisi, 2021                                                                                                                                                                                                                                                                                                                      | pp. 165-169   | D.Kapanadze<br>T.Todua                   |
| 24. | Formation of Similarity Measures For Pattern Recognition Problems                                   | International Aegan Symposium on Innovation Technologies and Engineering.Proceedings book. ISBN: 978-625-7720-27-4. Izmir, Turkey, 2021                                                                                                                                                                                                                                                     | pp. 61-66     | T. Todua<br>M. Kiknadze<br>D. Kapanadze  |
| 25. | Modification of the electronic tender system for the promotion of small and medium-sized businesses | Globalization and modern challenges of business, collection of proceedings of IV International Scientific Conference, second part 2020                                                                                                                                                                                                                                                      | pp. 201-206   | A. Kobiashvili<br>R. Kutateladze         |
| 26. | Implementation of electronic testing in the teaching process of Georgian Technical University       | Scientific Letters of Academic Society of Michal Baludansky. Vol. 6. Slovakia.2019                                                                                                                                                                                                                                                                                                          | pp. 40-46,    | D. Kapanadze,<br>T. Todua,<br>T. Zhvania |
| 27. | Development of a mathematical model of decision-making in complex organizational systems            | Scientific Journal of the National University of Georgia 2019, November                                                                                                                                                                                                                                                                                                                     | pp. 69-80     | Z. Gasitashvili<br>G. Acharadze          |
| 28. | Visualization modeling of RAM management processes                                                  | Technical University of Georgia International Conference "Globalization and Contemporary Challenges of Business" Proceedings, May 2019                                                                                                                                                                                                                                                      | 279-283<br>83 | R. Samkharadze<br>L.Gachechiladze        |
| 29. | Modeling of distribution of operating system resources                                              | Technical University of Georgia International Conference "Globalization and Contemporary Challenges of Business" Proceedings, May 2019                                                                                                                                                                                                                                                      | 302-305       | R. Samkharadze<br>L.Gachechiladze        |
| 30. | The problem of decision-making in decision-making bodies using a formal neuron                      | Technical University of Georgia International Conference "Globalization and Contemporary Challenges of Business" Proceedings, 2019                                                                                                                                                                                                                                                          | 272-279       | I.Iremadze<br>T.Naskidashvili            |

|     |                                                                                              |                                                                                                                                                                                                                                                                                                                                                       |                |                                                                               |
|-----|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------|
| 31. | Multifactor Analysis of Business Processes Using OLAP Tools                                  | Conference Proceedings VIII International Scientific And Practical Conference “INTERNET and SOCIETY”, 7-8 Jule, 2017, Kutaisi, Georgia<br>ISBN 978 9941- 408-85-4,<br>Conference Materials                                                                                                                                                            | pp.<br>190-193 | Lily Petriashvili,<br>Taliko Zhvania                                          |
| 32. | Some Problems of the Regional Development in Georg                                           | Novapublishers, Information and Computer Technology, Modeling and Control,<br><a href="https://www.novapublishers.com/catalog/product_info.php?products_id=62205&amp;osCsid=0d790650a1b1fd21a5aff385f1be9547">https://www.novapublishers.com/catalog/product_info.php?products_id=62205&amp;osCsid=0d790650a1b1fd21a5aff385f1be9547</a><br>NOVA, 2017 | Chapter<br>33  | A. Prangishvili, O. Namicheishvili, Z. Gasitashvili, M. Kiknadze, D. Verulava |
| 33. | კონფლიქტების შიდასახელმწიფოებრივი რეგულაციის მოდელის დამუშავება                              | VIII საერთაშორისო სამეცნიერო და პრაქტიკული კონფერენცია “ინტერნეტი და საზოგადოება” (INSO2017<br><a href="https://inso.ge/inso2017/wp-content/uploads/2017/07/2-gasitashvili-kirtadze-kircxalia.pdf">https://inso.ge/inso2017/wp-content/uploads/2017/07/2-gasitashvili-kirtadze-kircxalia.pdf</a>                                                      |                | ზ.გასიტაშვილი<br>გ. კირცხალია                                                 |
| 34. | Fuzzy Expressions in Knowledge Representation                                                | Novapublishers, Information and Computer Technology, Modeling and Control,<br><a href="https://www.novapublishers.com/catalog/product_info.php?products_id=62205&amp;osCsid=0d790650a1b1fd21a5aff385f1be9547">https://www.novapublishers.com/catalog/product_info.php?products_id=62205&amp;osCsid=0d790650a1b1fd21a5aff385f1be9547</a>               | Chapter<br>18  | M. Kiknadze,<br>A.Kobiashvili,<br>N.Giorgobiani and<br>J.Gogiashvili          |
| 35. | Structuring and "weighing" of the goals in the task of sustainable development of the region | Georgian Engineering News, ISSN 1512-0287, 2016, № 2, V. 78, Tbilisi,                                                                                                                                                                                                                                                                                 | pp. 25-31.     | A. Prangishvili, O. Namicheishvili, Z. Gasitashvili                           |
| 36. | Models for the Sustainable Development of the Georgian Regions                               | PROCEEDINGS of the International Scientific Conference Dedicated to Academician Iveri Prangishvili's 85 <sup>th</sup> Anniversary «Information and Computer Technologies, Modeling, Control (ICT-MC 2015)». ISBN 978-9941-20-575-0 2015, Tbilisi,                                                                                                     | pp. 169-175    | A. Prangishvili, O. Namicheishvili, Z. Gasitashvili, M. Kiknadze,             |
| 37. | Conceptual Investigation of the Regional System                                              | PROCEEDINGS of the International Scientific Conference Dedicated to Academician Iveri Prangishvili's 85 <sup>th</sup> Anniversary «Information and Computer Technologies,                                                                                                                                                                             | pp. 163-168.   | A. Prangishvili, O. Namicheishvili, Z. Gasitashvili                           |

|     |                                                                                                  |                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                |
|-----|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------|
|     |                                                                                                  | Modeling, Control (ICT-MC 2015)». ISBN 978-9941-20-575-0 2015, Tbilisi,                                                                                                                                                                                                                                                                         |            |                                                                                |
| 38. | Conceptual Approach to Regional Development of Georgia                                           | Novapublishers, Information and Computer Technology, Modeling and Control,<br><a href="https://www.novapublishers.com/catalog/product_info.php?products_id=62205&amp;osCsid=0d790650a1b1fd21a5aff385f1be9547">https://www.novapublishers.com/catalog/product_info.php?products_id=62205&amp;osCsid=0d790650a1b1fd21a5aff385f1be9547</a><br>2016 | Chapter 32 | A. Prangishvili, O. Namicheishvili, Z. Gasitashvili, D. Verulava               |
| 39. | Aspects Of Using Cloud Technologies In Virtual Learning Environment                              | International Conference on Education in Mathematics, Science & Technology. PROCEEDING BOOK, Turkey, 2016                                                                                                                                                                                                                                       | pp. 79-82  | T.Kapanadze,, T Zhvania, G.Tandilashvili                                       |
| 40. | ორგანიზაციულ სისტემებზე მოქმედი ფაქტორების ანალიზი კონფლიქტური რეგიონების განვითარების მაგალითზე | სტუ, არჩილ ელიაშვილის მართვის სისტემების ინსტიტუტის შრომათა კრებული # 20 2016 თბილისი.                                                                                                                                                                                                                                                          | 214-220    | ზურაბ გასიტაშვილი, მ. კიკნაძე, ზვიად ჯანყარაშვილი                              |
| 41. | Analysis of relationships among the characterizing factors of regional stable development        | Journal of Technical Science & Technologies International Black Sea University 2016 #1                                                                                                                                                                                                                                                          | 15-18      | Z.Gasitashvili, M. Kiknadze, Z. Jankharashvili                                 |
| 42. | Analysis of relationships among the characterizing factors of regional stable development        | Journal of Technical Science & Technologies International Black Sea University 2016 #1                                                                                                                                                                                                                                                          | 15-18      | Z.Gasitashvili, M. Kiknadze, Z. Jankharashvili                                 |
| 43. | <b>Conceptual Approach to Regional Development of Georgia</b>                                    | Information and Computer Technologies – Theory and Practice: Proceedings of the International Scientific Conference ICTMC-2015 Devoted to the 85th Anniversary of I.V. Prangishvili 2016- September Nova science publishers                                                                                                                     |            | Archil Prangishvili, Oleg Namicheishvili, Zurab Gasitashvili, Darejan Verulava |
| 44. | Some Problems of the Regional Development in Georgia                                             | Information and Computer Technologies – Theory and Practice: Proceedings of the International Scientific Conference ICTMC-2015 Devoted                                                                                                                                                                                                          |            | Archil Prangishvili, Oleg Namicheishvili, Zurab Gasitashvili, Darejan Verulava |

|     |                                                                                                                  |                                                                                                                                              |             |                              |
|-----|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------|
|     |                                                                                                                  | to the 85th anniversary of I.V. Prangishvili<br>2016- September Nova science publishers                                                      |             |                              |
| 45. | ორგანიზაციულ სისტემებზე მოქმედი ფაქტორების ანალიზი და მოდელის დამუშავება რეგიონის მდგრადი განვითარების მაგალითზე | გლობალიზაცია და ბიზნესი ევროპის სასწავლო უნივერსიტეტი სამეცნიერო-პრაქტიკული ჟურნალი                                                          |             | ლ.პეტრიაშვილი                |
| 46. | ინტერაქტიული სამგანზომილებიანი რეკონსტრუქცია RGB 3D გამოსახულების საფუძველზე                                     | სტუ-ს შრომები მართვის ავტომატიზებული სისტემები, 2016 # 1(21)                                                                                 |             | მ. კიკნაძე, ი. მაკასარაშვილი |
| 47. | Determining task priorities (Tasks) in real-time systems                                                         | Georgian Technical University, Archil Eliashvili Institute of Management Systems Scientific workbook ISSN 0135-0765, 195Nº 18, 2014, Tbilisi | pp. 239-243 | L.Petriashvili<br>T Zhvania  |

| Manuals and Monographs |                      |                                                                                                                                                                                                                                                                  |        |  |
|------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--|
| 1.                     | Collective Monograph | Contemporary Business Challenges in a Globalized World (Volume 4) // Collective Monograph by Rusudan Kutateladze (Author), & 2 more.Saarbrücken, Saarland, Germany; April 5, 2023. LAP Lambert Academic Publishing, ISBN-13: 978-6206154303, ISBN-10: 6206154300 | 196 p. |  |
| 2.                     | Collective Monograph | Contemporary Business Challenges in a Globalized World (Volume 3) Research, Study, Examination, Collective Monograph By David Gurgenedze, LAP Lambert Academic Publishing January 6, 2022, ISBN-13:                                                              | 284 p. |  |

|    |                                                                         |                                                                        |                       |                           |
|----|-------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------|---------------------------|
|    |                                                                         | 978-6204735320, ISBN-10: 6204735322                                    |                       |                           |
| 3. | Risk analysis and management<br>რისკების ანალიზი<br>დამართვა            | ublishing house "Technical University", 2021<br>ISBN 978-9941-28-825-8 | სახელმძღვანელო        | ე.როჭიკაშვილი             |
| 4. | კვლევის მეთოდოლოგია<br>ინფორმაციულ და<br>საკომუნიკაციო<br>ტექნოლოგიებში | საგამომცემლო სახლი<br>„ტექნიკური<br>უნივერსიტეტი“ 2021                 | სახელმძღვანელო<br>300 | ა. კობიაშვილი             |
| 5. | ოპერაციული სისტემა<br>Linux                                             | საგამომცემლო სახლი<br>„ტექნიკური<br>უნივერსიტეტი“ 2020                 | სახელმძღვანელო<br>290 | ი. Makas<br>arashvi<br>li |