

**Scientific papers of Oleg Namicheishvili  
as of 26 January 2024**

1. Bebiashvili Sh.L., Namicheishvili O.M. Some questions of the optimal redundancy, Bulletin of the Academy of Sciences of the Georgian SSR, **1965**, XXXYII: 3, pp. 551-558
2. Bebiashvili Sh.L., Namicheishvili O.M. What is redundancy? Science and technology, **1965**, no. 5, pp. 5-7
3. Bebiashvili Sh.L., Zhgenti T.G., Namicheishvili O.M. Concerning the germinability increasing of the crops through redundancy and optimum sowing (in Georgian and Russian languages), Abstracts of the III Republican methodological Conference of the physicists of the higher education institutions of the Georgian SSR, the Nikoloz Baratashvili Gori Pedagogical Institute., Tbilisi, **1965**, pp. 12-16
4. Baidashvili O.P., Bebiashvili Sh.L., Iaganashvili S.S., Namicheishvili O.M. Distribution law of the down time for automatic telephone equipment, Abstracts, Scientific and Technical Conference on reliability, quality and durability of the production, Tbilisi, **1965**, pp. 9-9
5. Bebiashvili Sh.L., Namicheishvili O.M. Concerning one case of the redundancy, Abstracts, Scientific and Technical Conference on reliability, quality and durability of the production, Tbilisi, **1965**, pp. 10-10
6. Bebiashvili Sh.L., Namicheishvili O.M. About the evaluation of the «price of reliability» in complex systems, Radio engineering, **1966**, vol. 21, no. 1, pp. 73-74
7. Bebiashvili Sh.L., Namicheishvili O.M. About the optimization of the method for augmentation of germinability by redundancy, Bulletin of the Academy of Sciences of the Georgian SSR, **1966**, XLII: 2, pp. 293-296
8. Bebiashvili Sh.L., Namicheishvili O.M. To the comparison of the methods of increasing complex systems reliability, Bulletin of the Academy of Sciences of the Georgian SSR, **1966**, XLIII: 2, pp. 301-308
9. Bebiashvili Sh.L., Namicheishvili O.M., Khuskivadze A.P. Determination of the structure and reliability of redundant systems with high efficiency, Proceedings of the Saint-Petersburg Electrotechnical University "LETI" (ETU), **1966**, iss. 56, part IY, pp. 40-42
10. Bebiashvili Sh.L., Namicheishvili O.M., Khuskivadze A.P. Concerning efficiency criteria of the devices for versatile systems, Proceedings of the Saint-Petersburg Electrotechnical University "LETI" (ETU), **1966**, iss. 56, part IY, pp. 43-50
11. Bebiashvili Sh.L., Namicheishvili O.M. Control tests of standard elements in forced regime, Bulletin of the Academy of Sciences of the Georgian SSR, **1967**, XLV, no. 2, pp. 325-332
12. Bebiashvili Sh.L., Namicheishvili O.M., Khuskivadze A.P. The average uptime of a complex system subject to the "importance" of its elements and scheduled preventive repairs, Proceedings of Academy of Sciences of USSR, Technical Cybernetics, **1967**, no. 2, pp. 60-65
13. Bebiashvili Sh.L., Iaganashvili S.S., Namicheishvili O.M. Distribution law of the down time for relay line, Abstracts, Third Scientific and Technical Conference on quality enhancement, reliability growth and durability improvement of the industrial goods, Saint-Petersburg, **1967**, part I, pp. 62-67
14. Bebiashvili Sh.L., Namicheishvili O.M. Optimal redundancy of the components in case of two failure types, Proceedings of the Saint-Petersburg Electrotechnical University "LETI" (ETU),

- 1968, iss. 71, pp. 151-152
15. Bebiashvili Sh.L., Namicheishvili O.M. One criterion for the appropriateness of planned preventive measures, Proceedings of the Saint-Petersburg Electrotechnical University "LETI" (ETU), 1968, iss. 71, pp. 119-121
  16. Lavrov A.N., Namicheishvili O.M. On some properties of the reliability resource, Proceedings of Academy of Sciences of USSR, Technical Cybernetics, 1968, no. 2, pp. 112-116
  17. Gugushvili J.T., Namicheishvili O.M. Concerning the substantiation of the Miner hypothesis, Bulletin of the Academy of Sciences of the Georgian SSR, 1968, vol. 51, no. 3, pp. 569-572
  18. Namicheishvili O.M. Some problems of the electronic equipment reliability theory/ Abstract of a candidate's thesis, specialty «Technical Cybernetics and Information Theory», Tbilisi: Tbilisi University Publishing House, 1968, 18 pages.
  19. Namicheishvili O.M. About one feature of the wear function, Proceedings of the Tbilisi State University, 1969, vol. 133, pp. 277-280
  20. Bebiashvili Sh.L., Namicheishvili O.M. Some aspects of the optimal redundancy problem, Proceedings of the Tbilisi State University, 1969, vol. 133, pp. 115-129
  21. Baidashvili O.P., Bebiashvili Sh.L., Iaganashvili S.S., Namicheishvili O.M. Failure-mode study in the course of time for some electromechanical systems, Proceedings of the Tbilisi State University, 1969, vol. 133, pp. 131-139
  22. Bebiashvili Sh.L., Zhgenti T.G., Namicheishvili O.M. Mathematical calculation pertinent to the density of plating for the grain crops, Journal of agricultural science, 1969, no. 2, pp. 105-109
  23. Bebiashvili Sh.L., Namicheishvili O.M. About the law of the recovery time distribution for the relay lines, Telecommunications, 1969, no. 8, pp. 77-80
  24. Bebiashvili Sh.L., Kikvilashvili G.B., Namicheishvili O.M. Some analysis of the reliability of the non-restorable systems with arbitrary structures and independent failures of the components, Abstracts: Georgian scientific and technical conference on the main issues of theory and practice of standardization, Tbilisi, 1970, pp. 18-19
  25. Bebiashvili Sh.L., Gugushvili J.T., Namicheishvili O.M. Method of the continuous loading for speedup of the Reliability Test, Abstracts: Georgian scientific and technical conference on the main issues of theory and practice of standardization, Tbilisi, 1970, pp. 23-24
  26. Namicheishvili O.M., Ezakeli V.I. To the question of optimal synthesis of recovered systems. Collected papers of the all-USSR Research and Design Institute of Automation of Production Processes in Industry «AVTOMATPROM»: *Automation of production processes in industry*, Rustavi, Georgia, 1970, iss. 7-8, pp. 223-229
  27. Bebiashvili Sh.L., Goldstein I.A., Namicheishvili O.M., Chukhman V.N., Ezakeli V.I. Evaluation of economic losses owing to hardware faults and the operating benefits of complex control systems for the metallurgical industry using the criteria of reliability. Collected papers of the all-USSR Research and Design Institute of Automation of Production Processes in Industry «AVTOMATPROM»: *Automation of production processes in industry*, Rustavi, Georgia, 1970, iss. 7-8, pp. 165-191
  28. Bebiashvili Sh.L., Gugushvili J.T., Magalashvili G.Z., Namicheishvili O.M. An approach to a problem of optimal synthesis of complex systems with repairable elements, Proceedings of the III All-USSR Intercollegiate scientific and technical Conference on the reliability improvement of electrical and radio engineering products, Tbilisi, 1970, iss. 1, pp. 5-6

29. Bebiashvili Sh.L., Zhgenti T.G., Gugushvili J.T., Namicheishvili O.M. The issue of *Accelerated Tests for Reliability Prediction*, Proceedings of the III All-USSR Interuniversity scientific and technical Conference on the reliability improvement of electrical and radio engineering products, Tbilisi, 1970, iss. 1, pp. 17-19
30. Bebiashvili Sh.L., Gugushvili J.T., Magalashvili G.Z., Namicheishvili O.M. N.M. Sediakin principle and its application to the problem of standby redundancy (without renewal), Proceedings of the III All-USSR Interuniversity scientific and technical Conference on the reliability improvement of electrical and radio engineering products, Tbilisi, 1970, iss. 1, pp. 35-37
31. Bebiashvili Sh.L., Gugushvili J.T., Magalashvili G.Z., Namicheishvili O.M. About optimal synthesis of restorable systems, Proceedings of Academy of Sciences of USSR, Technical Cybernetics, 1971, no. 2, pp. 56-58
32. Gugushvili J.T., Namicheishvili O.M. Accelerated test method of the continuous loading for *reliability prediction*, Bulletin of the Academy of Sciences of the Georgian SSR, 1971, vol. 61, no. 1, pp. 45-48
33. Bebiashvili Sh.L., Gaskarov D.V., Gugushvili J.T., Namicheishvili O.M. Some prediction data of the faulty condition of the transistors by the instrumentality of noisiness on the basis of statistical theory of pattern recognition, Bulletin of the Academy of Sciences of the Georgian SSR, 1971, vol. 71, no. 1, pp. 81-84
34. Baidashvili O.P., Namicheishvili O.M. Asymptotic estimation of the error probability of a majority decision element (vote-taking element), Proceedings of Academy of Sciences of USSR, Technical Cybernetics, 1973, no. 2, pp. 75-76
35. Amaglobeli N.S., Ioseliani Ts.I., Namicheishvili O.M., Pitskhelauri T.G., Ustiashvili I.A., Shudra O.S. Bulletin of the Academy of Sciences of the Georgian SSR, 1974, vol. 73, no. 2, pp. 305-308
36. Bebiashvili Sh.L., Meskhishvili A.I., Namicheishvili O.M., Khomasuridze K.N. About one model of the nonrestorable system, Georgian National Conference: «Enhancement of the products quality and reliability», Book of Abstracts, Tbilisi, 19-20 July, 1974, pp. 50-51
37. Gugushvili J.T., Zhgenti I.D., Namicheishvili O.M. To the question of the threshold elements reliability, Book of Abstracts of IV All-USSR Intercollegiate scientific and technical Conference «Reliability of the control systems and management facilities», Leningrad, 1975, part 2, pp. 16-19
38. Gugushvili J.T., Zhgenti I.D., Namicheishvili O.M. The issue of accelerated tests for reliability prediction, Proceedings of Academy of Sciences of USSR, Technical Cybernetics, 1975, no. 2, pp. 96-99
39. Gugushvili J.T., Zhgenti I.D., Namicheishvili O.M. Chemical kinetic models of aging for reliability prediction. The fifth collected articles of young researchers of the Tbilisi State University: Series of physical, mathematical and natural sciences, Tbilisi, 1976, pp. 41-48
40. Bardavelidze B.M., Gugushvili J.T., Namicheishvili O.M. About one test of linearity for function of acceleration. In the collected articles: «Evaluation of characteristics of the complex systems quality and System analysis», Minsk, 1976, pp. 73-74
41. Bardavelidze B.M., Gugushvili J.T., Namicheishvili O.M. Some chemical kinetic models of aging. In the collected articles: «Evaluation of characteristics of the complex systems quality and System analysis», Minsk, 1976, pp. 91-92

42. Bebiashvili Sh.L., Namicheishvili O.M., Khomasuridze K.N. Reliability models for nonattended systems where the probabilities of transitions depend on System State, Proceedings of the Tbilisi State University, Series: Physics and Cybernetics, 1976, vol. 168, pp. 105-109
43. Bebiashvili Sh.L., Namicheishvili O.M., Khomasuridze K.N. Some non-markovian reliability models, Proceedings of the Tbilisi State University, Series: Physics and Cybernetics, 1976, vol. 168, pp. 111-114
44. Bardavelidze B.M., Gugushvili J.T., Namicheishvili O.M., Revishvili Sh.Sh. Analysis of the parametric reliability of the voltage divider, 10<sup>th</sup> Republican Conference of the physicists of the universities of the Georgian SSR, Abstracts' Book, Sukhumi, 1978, pp. 4-5
45. Bardavelidze B.M., Gugushvili J.T., Namicheishvili O.M., Revishvili Sh.Sh. Test planning for Weibull-Gnedenko distribution law, In the collected articles: «Evaluation of characteristics of the complex systems quality and System analysis», Minsk, 1978, pp. 197-199
46. Bardavelidze B.M., Gugushvili J.T., Namicheishvili O.M., Revishvili Sh.Sh. Comparative analysis of the maximum likelihood and least squares methods for estimation of the parameters in Weibull-Gnedenko distribution law, In the collected articles: «Evaluation of characteristics of the complex systems quality and System analysis», Minsk, 1978, pp. 203-204
47. Gugushvili J.T., Namicheishvili O.M., Revishvili Sh.Sh., Khomasuridze K.N. About the redundancy of the protection circuits for servosystems, In the collected articles: «Evaluation of characteristics of the complex systems quality and System analysis», Minsk, 1978, pp. 238-240
48. Bardavelidze B.M., Gugushvili J.T., Namicheishvili O.M., Revishvili Sh.Sh. The study of parametric reliability of electronic circuits, In the collected articles: «Evaluation of characteristics of the complex systems quality and System analysis», Minsk, 1978, pp. 266-267
49. Bebiashvili Sh.L., Kartsivadze G.A., Kobuladze N.S., Kuchava G.A., Namicheishvili O.M., Razmadze Z.G. Physical properties analysis that are sensitive to the change of state of the light-emitting diodes, In the collected articles: «Evaluation of characteristics of the complex systems quality and System analysis», Minsk, 1978, pp. 254-255
50. Bardavelidze B.M., Gugushvili J.T., Namicheishvili O.M., Revishvili Sh.Sh. To the question of parametric optimization of electronic circuitry, Electronics, Vilnius, 1979, special issue, pp. 79-84
51. Bebiashvili Sh.L., Gaskarov D.V., Gofman V.I., Gugushvili J.T., Kuchava G.A., Namicheishvili O.M., Kobuladze N.S. Reliability prediction of integrated circuits, Proceedings of the Tbilisi State University, Series: Physics, 1979, vol. 209, no. 8, pp. 127-128
52. Gugushvili J.T., Zhgenti I.D., Kobuladze N.S., Namicheishvili O.M. Reliability prediction of the light-emitting diodes, 8<sup>th</sup> scientific and technical workshop: Maintenance of electronic equipment and its components, evaluation and prediction of reliability indices for electronic products, Abstracts' Book, Ivano-Frankivsk, 1979
53. Bardavelidze B.M., Bebiashvili Sh.L., Gaskarov D.V., Gugushvili J.T., Kobuladze N.S., Kuchava G.A., Namicheishvili O.M. Reliability analysis of the integrated circuits, 8<sup>th</sup> scientific and technical workshop: Maintenance of electronic equipment and its components, evaluation and prediction of reliability indices for electronic products, Abstracts' Book, Ivano-Frankivsk, 1979
54. Bebiashvili Sh.L., Namicheishvili O.M. Optimization of tolerances for input parameters of

- electronic circuits, 11<sup>th</sup> Republican Conference of the physicists of the universities of the Georgian SSR, Abstracts' Book, Tbilisi, 1980, pp. 251-253
55. Bardavelidze B.M., Gugushvili J.T., Namicheishvili O.M. On the reliability and efficiency of the making systems that handle binary and continuous signals on basis of the threshold principle, In the collected articles: «Evaluation of characteristics of the complex systems quality and System analysis», Minsk, 1980, pp. 34-34
  56. Namicheishvili O.M., Revishvili Sh.Sh. Study on the parametric reliability of the voltage divider by computer, In the collected articles: *A study of some issues of computing*, Tbilisi: Tbilisi University Publishing House, 1981, iss. 3, pp. 31-52
  57. Beritashvili M.I., Namicheishvili O.M., Revishvili Sh.Sh. Planning an experiment for Weibull-Gnedenko distribution using simulation technique, In the collected articles: *A study of some issues of computing*, Tbilisi: Tbilisi University Publishing House, 1983, iss. 3, pp. 53-82
  58. Beritashvili M.I., Namicheishvili O.M., Revishvili Sh.Sh. Identification of random pulse streams in case of the equiprobability distribution of instantaneous amplitudes, In the collected articles: *A study of some issues of computing*, Tbilisi: Tbilisi University Publishing House, 1983, iss. 3, pp. 83-101
  59. Bebiashvili Sh.L., Zhgenti I.D., Kobuladze N.S., Namicheishvili O.M. Parametrical reliability prediction of electronic devices using simulation technique, 12<sup>th</sup> Republican Conference of the physicists of the universities of the Georgian SSR, Abstracts' Book, Kutaisi, 1981, pp. 90-92
  60. Bardavelidze B.M., Gugushvili J.T., Namicheishvili O.M. Statistical correlations analysis between the parameters of low-frequency resistive T-shaped equivalent circuit of the transistor, 12<sup>th</sup> Republican Conference of the physicists of the universities of the Georgian SSR, Abstracts' Book, Kutaisi, 1981, pp. 117-118
  61. Bebiashvili Sh.L., Kobuladze N.S., Kuchava G.A., Namicheishvili O.M. Parametric reliability of redundant circuits, Proceedings of the Tbilisi State University, Series: Physics, 1981, vol. 226, no. 12, pp. 165-166
  62. Bebiashvili Sh.L., Kobuladze N.S., Namicheishvili O.M. Probability calculation for fulfillment of conditions operability in the electronic circuit by method of discrete convolution, 37<sup>th</sup> all-USSR scientific session of the A.S. Popov scientific and technical society of Radiotechnics, Electronics and Communications, dedicated to the Day of the Radio. Abstracts' Book, Moscow, publishing house: Radio and Communications, 1982, part I, pp. 73-73
  63. Namicheishvili O.M., Sanadze T.I. Progress in the field of radio engineering in Georgia on the occasion of 60-anniversary of the USSR formation, Radio engineering, 1982, no. 12, pp. 15-20
  64. Bebiashvili Sh.L., Kuchava G.A., Namicheishvili O.M. Influence of temperature on parametric reliability of redundant equipment, 13<sup>th</sup> Republican Conference of the physicists of the universities of the Georgian SSR, Abstracts' Book, Tbilisi, 1982, pp. 39-40 effect of an electric field
  65. Bebiashvili Sh.L., Kobuladze N.S., Kuchava G.A., Namicheishvili O.M. Parametric reliability of the redundant circuits, Proceedings of the Tbilisi State University, Series: «Cybernetics. Applied mathematics», 1984 (issue of the previous year), vol. 236, no. 4, pp. 60-76
  66. Namicheishvili O.M. Теория надёжности, Tbilisi: Tbilisi University Publishing House, 1984, 240 pages /Textbook/

67. Bebiashvili Sh.L., Gugushvili J.T., Namicheishvili O.M. Optimum design of a bipolar transistor amplifier subject to the consideration of temperature changes in a given interval, 39<sup>th</sup> all-USSR scientific session of the A.S. Popov scientific and technical society of Radiotechnics, Electronics and Communications, dedicated to the Day of the Radio. Abstracts' Book, Moscow, publishing house: Radio and Communications, 1984, part II, pp. 47-47
68. Gugushvili J.T., Namicheishvili O.M. Mathematical models of the solver operation in computer-aided design system of electronic circuits, Proceedings of the Tbilisi State University, Series: «Cybernetics. Applied mathematics», 1984, vol. 251, no. 5, pp. 35-80
69. Kobuladze N.S., Namicheishvili O.M. Histogram determination of the continuous random variable by means of the discrete convolution method, Proceedings of the Tbilisi State University, Series: «Physics», 1985, vol. 253, no. 18, pp. 180-181
70. Berulava R.G. Varazi G.L., Namicheishvili O.M., Revishvili Sh.Sh. Analysis and optimization of linear electric circuits by means of the machine methods, In the collected articles: *A study of some issues of computing*, Tbilisi: Tbilisi University Publishing House, 1985, iss. 4, pp. 3-37
71. Bebiashvili Sh.L., Berulava R.G., Kuchava G.A., Namicheishvili O.M. Thermal stability of the resistance of redundant resistors, In the collected articles: *A study of some issues of computing*, Tbilisi: Tbilisi University Publishing House, 1985, iss. 4, pp. 54-71
72. Bebiashvili Sh.L., Berulava R.G., Kuchava G.A., Namicheishvili O.M. Frequency stability of phase shifter device, In the collected articles: *A study of some issues of computing*, Tbilisi: Tbilisi University Publishing House, 1985, iss. 4, pp. 72-80
73. Bardavelidze B.M., Namicheishvili O.M., Revishvili Sh.Sh. Optimum design of bias circuits for bipolar transistors subject to the consideration of temperature changes in a given interval, In the collected articles: *A study of some issues of computing*, Tbilisi: Tbilisi University Publishing House, 1985, iss. 4, pp. 81-108
74. Bardavelidze B.M., Bebiashvili Sh.L., Kobuladze N.S., Kuchava G.A., Namicheishvili O.M., Revishvili Sh.Sh. A program package to determine the distribution function of a random variable by means of the method of discrete convolution, State Fund of algorithms and programs of the USSR, registration numbe 50850000888, 1985, pp. 1-22. Newsletter: «Algorithms and Programs», All-Union Scientific and Technical Information Center, 1986, no. 4 (73)
75. Bardavelidze B.M., Gugushvili J.T., Namicheishvili O.M. 11<sup>th</sup> Symposium on the problem of redundancy in information systems, Abstracts' Book, Saint Petersburg State University of Aerospace Instrumentation, Saint Petersburg, 1986, part 3, pp. 143-145
76. Bebiashvili Sh.L., Kobuladze N.S., Kuchava G.A., Namicheishvili O.M., Revishvili Sh.Sh. Evaluation program of the error probability in threshold element, State Fund of algorithms and programs of the USSR, registration numbe 50860000718, 1986, pp. 1-20. Newsletter: «Algorithms and Programs», All-Union Scientific and Technical Information Center, 1987, no. 3
77. Namicheishvili O.M. Threshold redundancy of logic circuits, Radio engineering, 1986, no. 11, pp. 47-51
78. Namicheishvili O.M. Threshold redundancy in control computer systems, Tbilisi, publishing house «Ganatileba», 1988, 142 pages /[Monograph](#)/
79. Gogiashvili Zh.G., Dalakishvili K.M., Namicheishvili O.M. Design algorithm of reproducible electronic circuits, All-USSR Intercollegiate scientific and technical Conference «Improving



- the quality and reliability of products, computer software and instructional technologies», Abstracts' Book, Kuibyshev Polytechnical Institute, Kuibyshev, September, 1989, pp. 27-27
80. Bebiashvili Sh.L., Gugushvili J.T., Namicheishvili O.M., Kobuladze N.S. Modeling of physical problems on the computer, part 1, lectures, Tbilisi: Tbilisi University Publishing House, 1989, 152 pages /Textbook/
  81. Gogiashvili Zh.G., Dalakishvili K.M., Namicheishvili O.M. An intelligent system for optimum design of producible electronic circuits, All-USSR scientific and technical workshop of the A.S. Popov scientific and technical society of Radiotechnics, Electronics and Communications: «Creation of the intelligent CAD systems for super large scale integration circuits and electronic instrumentation» (September 12-14, 1990, Gelendzhik). Abstracts' Book, Moscow, publishing house: Radio and Communications, 1990, pp. 83-83
  82. Namicheishvili O.M. Threshold decision organs in control structures for technical systems, Abstract of a doctoral thesis, Specialty «05.13.01 - Control in technical systems», Tbilisi: Georgian Technical University Publishing House, 1990, pp. 1-56
  83. Gogiashvili Zh.G., Namicheishvili O.M., Revishvili Sh.Sh. Design of the combinational logic devices, a manual for university students, Tbilisi: Tbilisi University Publishing House, 1991, 228 pages /Textbook/
  84. Bardavelidze B.M., Gogiashvili Zh.G., Namicheishvili O.M. Statistical Radio Engineering, a manual for university students, Tbilisi: Tbilisi University Publishing House, 1992, 264 pages /Textbook/
  85. Namicheishvili O.M. Think piece: Assimilation of the microchip technology in developing countries, The First Georgian National Conference: «Production of arsenic and electronics development in Georgia based on arsenic-containing materials», May 5-8, 1992, Tbilisi
  86. Gogiashvili Zh.G., Dalakishvili K.M., Namicheishvili O.M. Mathematical modeling of physical phenomena, part 2, lectures, Tbilisi: Tbilisi University Publishing House, 1994, 184 pages /Textbook/
  87. Gogiashvili Zh.G., Dalakishvili K.M., Namicheishvili O.M. Minimax problem of the design for loader, deposit manuscript, Georgian Research Institution of scientific and technical information and engineering-and-economical studies, no. 1034-95 of 6.09.1995, Reference Information Collection, 26 pages.
  88. Gogiashvili Zh.G., Dalakishvili K.M., Namicheishvili O.M., Chikhradze G.Sh. Mathematical model for the reproducibility indicator of the electronic circuits, deposit manuscript, Georgian Research Institution of scientific and technical information and engineering-and-economical studies, no. 1035-95 of 6.09.1995, Reference Information Collection, 32 pages.
  89. Gogiashvili Zh.G., Dalakishvili K.M., Namicheishvili O.M., Chikhradze G.Sh. Design problem of the reproducible electronic circuits, deposit manuscript, Georgian Research Institution of scientific and technical information and engineering-and-economical studies, no. 1036-95 of 6.09.1995, Reference Information Collection, 48 pages.
  90. Namicheishvili O.M. Independent Georgia and third industrial revolution, Science and technology, 1995, no. 540, pp. 5-11
  91. Gagua M.G., Kuchava G.A., Muchiauri A.A., Namicheishvili O.M., Sobinina N.V., Khomasuridze K.N. Production method of high precision capacitors. **Patent diploma for utility model**. Official journal of the Georgian National Center of intellectual property, Tbilisi, 1996, no. 2 (7), pp. 125-126

92. Gogiashvili Zh.G., Dalakishvili K.M., Namicheishvili O.M. Laboratory workshop: Modeling of Physical Phenomena, Tbilisi: Tbilisi University Publishing House, 1996, 196 pages /Textbook/
93. Namicheishvili O.M. About mutual understanding of the Science and Faith, Science and technology, 1996, no. 541, pp. 19-23
94. Namicheishvili O.M., Panchvidze K.M. Binary and Fuzzy Signal Processing Using the Connectivity Analysis, Bulletin of the Georgian Academy of Sciences, 1997, vol.155, no. 2, pp. 180-184
95. Gogiashvili Zh.G., Kandashvili V.V., Namicheishvili O.M. Threshold redundancy of the Binary channels, deposit manuscript, Georgian Research Institution of scientific and technical information and engineering-and-economical studies, no.1138-97 of 1997, Reference Information Collection, 10 pages.
96. Gogiashvili Zh.G., Kandashvili V.V., Namicheishvili O.M. Machine synthesis of the threshold element by minimization technique of the objective function, deposit manuscript, Georgian Research Institution of scientific and technical information and engineering-and-economical studies, no. 1139-97, of 1997, Reference Information Collection, 13 pages
97. DalakiSvili K.M., Namicheishvili O.M. Optimum Synthesis of Reproductive Electronic Systems, Bulletin of the Georgian Academy of Sciences, 1997, vol.155, no. 3, pp. 344-349
98. Namicheishvili O.M. Appraisal problem of the novelty in science, Science and technology, 1997, no. 1-3 (542-544), pp. 40-51
99. Namicheishvili O.M., Tabatadze T.N. Models of the chemical kinetics theory for reliability prediction, Science and technology, 1997, no. 6 (547), pp. 46-53
100. Dalakisvili K.M., Gogiashvili Zh.G. Namicheishvili O.M. Threshold Redundancy of Binary Channels, Bulletin of the Georgian Academy of Sciences, 1998, vol. 157, no. 1, pp. 38-41
101. Gogiashvili Zh.G., Namicheishvili O.M. Computer synthesis of the threshold element by the use of the objective function minimization, Science and technology, 1998, no. 1-3 (548-550), pp. 50-56
102. Gogiashvili Zh.G., Namicheishvili O.M. Minimum upper estimate for the probability of the signal restoration error in case of threshold redundancy of binary channels, Science and technology, 1998, no. 4-6 (553-555; rather: 551-553), pp. 123-128
103. Gogiashvili Zh.G., Gugushvili J.T., Namicheishvili O.M., Kandashvili V.V. Theory of threshold redundancy / Research Monograph, Tbilisi: Tbilisi University Publishing House, 1998, 108 pages /Monograph/
104. Namicheishvili O.M., Shonia G.G. Adaptive Threshold Redundancy for Computing Systems, Bulletin of the Georgian Academy of Sciences, 1998, vol. 158, no. 3, pp. 383-385
105. Gogiashvili Zh.G., Dalakisvili K.M., Namicheishvili O.M. Minimal upper estimate for the error probability of the signal restoration in case of threshold redundancy of binary channels, Radio Engineering, 1999, no. 2, pp. 8-11
106. Gogiashvili Zh.G., Namicheishvili O.M. Threshold Redundancy of Binary Channels, Reports of Enlarged Sessions of the Seminar of I.Vekua Institute of Applied Mathematics, 1998, vol. 13, no. 4, pp. 33-37
107. Gogiashvili Zh.G., Namicheishvili O.M., Shonia G.G. Optimization of Weights for Threshold Redundancy of Binary Channels by the Method of (Mahalanobis') Generalised Distance, Proceedings of Tbilisi University, vol. 333: Physics, 1999, vol. 34, pp. 19-30



108. Gogiashvili Zh.G., Namicheishvili O.M. Computer-Aided Design for Reproducibility assurance of the Technical Systems: poster paper. Republican Scientific and Technical Conference-Exhibition SofTEC'99 «Applied program technologies». Presentations by means of stands and fairs, section II: Computer-Aided Design; stand F15, Tbilisi, June 22-23, 1999; Program, page 17
109. Khetashvili A, Namicheishvili O., Radchenko A. Creation of the Electronic Version of the Encyclopedia of Conjugation of the French Verbs: poster paper. Republican Scientific and Technical Conference-Exhibition SofTEC'99 «Applied program technologies». Presentations by means of stands and fairs, section VI: Information technologies in educational process; stand B8, Tbilisi, June 22-23, 1999; Program, page 22
110. Namicheishvili O.M., Tabatadze T.N. Non-standard models for reliability prediction of electronic products, Radio Engineering, 1999, no. 9, pp. 78-84
111. Namicheishvili O.M., Shonia G.G. Structural analysis of the display circuits of the critical state of the inputs of the threshold element with relay adaptation, CompuLog: All-Russia magazine on information science and related matters (communications, hardware and software, science, business), 1999, January-February, no. 1 (31), pp. 45-51
112. Namicheishvili O.M. A brief overview of the Informatics development, Science and technology, 1999, no. 10-12 (564-566), pp. 26-30
113. Gogiashvili Zh.G., Namicheishvili O.M., Chonia G.G. Optimization of Weights for Threshold Redundancy of Binary Channels by the Method of (Mahalanobis') Generalised Distance. MMR'2000 - Second International Conference on Mathematical Methods in Reliability: Methodology, Practice and Interference; Université Victor Segalen Bordeaux 2; Bordeaux, France, July 4-7, 2000; Abstracts' Book, vol. 1, pp. 463-466
114. Gogiashvili Zh.G., Namicheishvili O.M. Introduction to computer science, Tbilisi: Tbilisi University Publishing House, 2000, 142 pages /Textbook/
115. Namicheishvili O.M., Tsiskaridze V.K. Data structures, Tbilisi: Tbilisi University Publishing House, 2001, 78 pages /Textbook/
116. Namicheishvili O.M., Tabatadze T.N., Chikhradze G.Sh. Turbo Pascal, part I, Tbilisi: Tbilisi University Publishing House, 2002, 272 pages /Textbook/
117. Namicheishvili O.M., Tabatadze T.N., Chikhradze G.Sh. Turbo Pascal, part II, Tbilisi: Tbilisi University Publishing House, 2003, 352 pages /Textbook/
118. Gogiashvili Zh.G., Namicheishvili O.M., Chonia G.G. Continuous adaptation of threshold devices, Georgian Engineering News, ISSN 1502-0287, Tbilisi, 2004, no. 4, pp.11-12.
119. Gogiashvili Zh.G., Namicheishvili O.M., Chonia G.G. Relay adaptation of threshold devices, Georgian Electronic Scientific Journal (GESJ): Computer science and Telecommunications, Tbilisi, 2004, no. 2 (4), pp. 17-24
120. Gogiashvili Zh.G., Namicheishvili O.M., Chonia G.G. Continuous Adaptation of Threshold Devices according to Algorithm of the Unified Encouragement and Individual Punishment (UEIP), Proceedings of I. Javakhishvili Tbilisi State University, vol. 357, ISSN 1512-1461, PHYSICS, 2004, vol. 39, pp. 174-181
121. Gogiashvili Zh.G., Namicheishvili O.M., Shonia G.G. Cyclic Adaptation of Threshold Elements, Bulletin of the Georgian Academy of Sciences, 2004, vol. 170, no. 3, pp.485-487
122. Bardavelidze B., Gogiashvili Zh., Megrelishvili R., Namicheishvili O., Tabatadze T., Chikhradze G. Reliability definition by means of computer for nonrestorable system, which

contains the elements with two independent states of failure, The 3<sup>rd</sup> Workshop on Information Technology & Its Disciplines, Symposium on Information Technology Development (WITID2006), Isfahan (Iran), January 16-18, 2006, Paper ID №FP127:

<http://www.itrc.ac.ir/witid2006/Accepted%20Papers.htm>

123. Bardavelidze B., Gogiashvili Zh., Namicheishvili O. Reliability definition by means of computer for nonrestorable system, which contains the elements with two independent states of failure, Georgian Engineering News, ISSN 1502-0287, Tbilisi, 2006, no. 3, pp. 153-155.
124. Bardavelidze B., Gogiashvili Zh., Namicheishvili O., Chikhradze G. Circuits of electrical protection in computer systems, Georgian Electronic Scientific Journal (GESJ): Computer science and Telecommunications, Tbilisi, 2006, no. 2 (9), pp. 119-130
125. Bardavelidze B., Gogiashvili Zh., Namicheishvili O., Chikhradze G. Philosophy and History of Informatics, Tbilisi: Publishing House «Universal», 2006, 190 pages /**Monograph**/
126. Bardavelidze B., Gogiashvili Zh., Namicheishvili O. Graphs and Algorithms / Lectures (with exercises), Tbilisi: Publishing House «Universal», 2006, 244 pages /**Textbook**/
127. Archil Prangishvili, Oleg Namicheishvili, Archil Elizbarashvili. Neural networks, Tbilisi: Publishing House «Technical University», 2007, 164 pages /**Textbook**/
128. Namicheishvili O., Gogiashvili Zh., Bardavelidze B. Introduction to topology of the electric circuits, Tbilisi: Publishing House «Universal», 2008, 190 pages /**Textbook**/
129. Namicheishvili O., Gogiashvili Zh., Bardavelidze B. Introduction to informatics, Tbilisi: Publishing House «Universal», 2008, 140 pages /**Textbook**/
130. Oleg Namicheishvili, Archil Elizbarashvili, Guranda Charkseliani. Adaptation in the system redundancy on basis of the formal neuron model, Proceedings of the Sukhumi State University, vol. IV, Series «Mathematics and Computer science», Tbilisi: Sukhumi State University Publishing House, 2008, pp. 77-93
131. Oleg Namicheishvili, Archil Elizbarashvili Mathematical theory of redundancy based on the model of formal neuron, Georgian Electronic Scientific Journal (GESJ): Computer science and Telecommunications, Tbilisi, 2009, no. 4 (21), pp. 136-189
132. Archil Elizbarashvili, Oleg Namicheishvili. Mathematical Theory of Redundancy Based on Formal Neuron Model, European Computing Conference (ECC'09) sponsored by World Scientific and Engineering Academy and Society (WSEAS), Tbilisi, Georgia, June 26-28, 2009, pp. 381-385.
133. Archil Elizbarashvili, Oleg Namicheishvili. Maintenance of reliability with a threshold element, Bulletin of St. Andrew the First-Called Georgian University of the Patriarchy of Georgia, Tbilisi, 2009, no. 2, pp. 45-49
134. Archil Prangishvili, Oleg Namicheishvili. Talk on the Philosophy of Science, Tbilisi: Publishing House «Technical University», 2009, 432 pages /**Monograph**/
135. Giorgi Gachechiladze, Igor Kveselava, Revaz Mishveladze, Giorgi Mchedlishvili, Oleg Namicheishvili, Soso Sigua, Archil Prangishvili, Avtandil Dzamashvili. Culturology (Study of culture: manual), Tbilisi: Publishing House «Technical University», 2010, 426 pages /**Textbook**/
136. Oleg Namicheishvili, Michael Chincharauli. Ad hoc networks simulation by the instrumentality of NS2. International Conference «Information and Computing Technologies», dedicated to the memory of eminent representatives of the Georgian scientific School of computer science professors Helen Dekanosidze and Murman Tsuladze, May 2-6, 2010, Tbilisi / Organizer: Niko

- Muskhelishvili Institute of computational mathematics and *Saint Andrew* the First-Called *Georgian University* of the Patriarchate of *Georgia* (SANGU). Work Program, pp. 5-5.
137. Prangishvili A.I., Namicheishvili O.M., Kajaia T.N., Elizbarashvili A.M. and Ramazashvili M.T. Formal Neuron Model for Redundancy of Digital Communication Channels, *Georgian Engineering News*, ISSN 1512-0287, Tbilisi, 2010, no. 2, vol. 54, pp. 9-17.
  138. Prangishvili A.I., Namicheishvili O.M., Kajaia T.N., Ramazashvili M.T. Cyclic adaptation without feedback, *Georgian Engineering News*, ISSN 1512-0287, Tbilisi, 2010, no. 3, vol. 55, pp. 16-19.
  139. Prangishvili A.I., Namicheishvili O.M. Formal neuron and model its adaptation in the theory of redundancy. International Scientific Conference «Information and Computer Technologies, Modelling, Control» Devoted to the 80th Anniversary of Academician I.V. Prangishvili, Tbilisi, November 1-4, 2010. Abstracts' Book, pp. 59-60
  140. Archil Prangishvili, Oleg Namicheishvili. C++ for all, Tbilisi: Publishing House «Technical University», 2010, 464 pages /[Textbook](#)/
  141. Archil Prangishvili, Oleg Namicheishvili. Threshold Redundancy of Binary Sensors, International Scientific Conference «Philosophy and Synergy of Information: Sustainability and Security», 20-24 April 2011, Tbilisi, Georgia, Main Sponsor of the Conference: NATO Science for Peace and Security (SPS) Programme, Programme & Abstracts, Tbilisi-Spring-2011, pp. 53-54.
  142. Archil Prangishvili, Oleg Namicheishvili. Threshold Redundancy of Binary Sensors, Proceedings of the NATO Advanced Research Workshop on Philosophy and Synergy of Information: Sustainability and Security, Tbilisi, Georgia, 20-24 April, 2011, Edited by Paata J. Kervalishvili and Sousana A. Michailidis; NATO Science for Peace and Security Series, Sub-Series E: Human and Societal Dynamics.-Amsterdam: IOS Press, 2012, pp. 88-99.
  143. Prangishvili A.I., Namicheishvili O.M. Formal neuron and model its adaptation in the theory of redundancy. International Scientific Conference «Information and Computer Technologies, Modelling, Control» Devoted to the 80th Anniversary of Academician I.V. Prangishvili, Tbilisi, November 1-4, 2010. Proceedings of the International Conference «ICTMC-2010», Tbilisi: Publishing House «Technical University», 2011, pp. 10-13
  144. Archil Prangishvili, Oleg Namicheishvili, Michael Ramazashvili. Algebraic Theory of the Binary Sensors Dependability, Proceedings of the International Conference «Modern Algebra and its Applications», September 19-25, 2011, Batumi, Georgia, vol. 2, ISBN 978-9941-0-3726-9, ISBN 978-9941-0-3727-6 (V. 2), pp. 123-131.
  145. Archil Prangishvili, Oleg Namicheishvili, Zhuzhuna Gogiashvili, Michael Ramazashvili. Mathematical Theory of the Binary Sensors Dependability. Georgian Mechanical Union. II Annual Meeting of the Georgian Mechanical Union. Dedicated to the 105<sup>th</sup> Birthday Anniversary of Ilia Vekua (23.IV.1907-2.XII.1977). Book of Abstracts. December 15-17, 2011; January 16, 2012. Tbilisi: Tbilisi University Press, ISSN 2233-355X, pp. 36-37 (and pp. 77-79 in Georgian).
  146. Archil Prangishvili, Oleg Namicheishvili, and Michael Ramazashvili. «Dependability of Binary Sensors», in pp. 1–18 of the book: Tamar Lominadze, Ivane Gorgidze (Editors), *Research of New Trends in Informational Technologies*, Series: Media and communications: technologies, policies and challenges, New York: Nova Science Publishers, 2012, ISBN: 1620814587, 165 pages.

147. Archil Prangishvili, Zurab Tsveraidze, and Oleg Namicheishvili. Programming in Haskell. Tbilisi: Publishing House «Technical University», 2012, 290 pages /**Textbook**/
148. Archil Prangishvili, Zurab Tsveraidze, Badri Bardavelidze, and Oleg Namicheishvili. Laboratory Practicum: Functional Programming Language Haskell, Tbilisi: Publishing House «Technical University», 2012, 150 pages /**Textbook**/
149. Archil Prangishvili, Zurab Tsveraidze, and Oleg Namicheishvili. Programming in Haskell (Multimedia presentation), Electronic textbook, Faculty of Informatics and Control Systems, 2012, 278 slides /**Textbook**/  
[https://gtu.ge/book/prezentacia\\_daprogrameba\\_HASKELL\\_enaze.pdf](https://gtu.ge/book/prezentacia_daprogrameba_HASKELL_enaze.pdf)
150. Archil Prangishvili, Oleg Namicheishvili, Giorgi Zhgenti, Levan Cholikidze. Parameter optimization of voltage divider in accordance with the criterion of the reproducibility. Proceedings of the international scientific conference «Basic paradigm of science and technology development in the 21st century», dedicated to the 90-anniversary of the Georgian Technical University, September 19-21, 2012, Tbilisi. Tbilisi: Publishing House «Technical University», 2012, pp. 92-105
151. Archil Prangishvili, Oleg Namicheishvili, Giorgi Zhgenti, Levan Cholikidze. Mathematical model for reproducibility index of electronic circuit. Proceedings of the international scientific conference «Basic paradigm of science and technology development in 21 century», dedicated to the 90-anniversary of the Georgian Technical University, September 19-21, 2012, Tbilisi. Tbilisi: Publishing House «Technical University», 2012, pp. 80-91
152. Archil Prangishvili, Oleg Namicheishvili. Formal Neuron and the Models of its Adaptation in the Redundancy Theory, pp. 1-9. In this book: Information and Computer Technologies - Theory and Practice: Proceedings of the International Scientific Conference ICTM-2010, Devoted to the 80th Anniversary of I.V. Prangishvili, Series: Computer Science, Technology and Applications, Nova Science Publishers, New York, 2012, 664 pages, ISBN: 978-1-61324-870-6
153. Chincharauli M.G., Namicheishvili O.M. Security issues in mobile ad hoc networks. Georgian Engineering News, ISSN 1512-0287, Tbilisi, 2013, no. 1, pp. 5-18
154. Prangishvili A., Namicheishvili O., Zhgenti G., Cholikidze L. Design problem of the reproducible electronic circuitry. Georgian Electronic Scientific Journals (GESJ): Computer Sciences and Telecommunications, ISSN 1512-1232, Tbilisi: Publishing House «Technical University», Electronic Media Department, 2013, no. 2 (38) [2013.06.30], pp. 55-88
155. Archil Prangishvili, David Gorgidze, Oleg Namicheishvili, Michael Ramazashvili. Accelerated testing of durability and fatigue failure. Georgian Electronic Scientific Journals (GESJ): Computer Sciences and Telecommunications, ISSN 1512-1232, Tbilisi: Publishing House «Technical University», Electronic Media Department, 2013, no. 2 (38) [2013.06.30], pp. 89-119
156. Prangishvili A., Namicheishvili O., Zhgenti G., Cholikidze L. Initial data uncertainty during system design. Georgian Engineering News, ISSN 1512- 0287, Tbilisi, 2013, no. 3, vol. 67, pp. 9-15
157. Prangishvili A.I., Namicheishvili O.M., Gogiashvili M.A. Adaptation of formal neuron by the Widrow-Hoff algorithm. Georgian Engineering News, ISSN 1512-0287, Tbilisi, 2013, no. 3, vol. 67, pp. 16-22
158. Prangishvili A.I., Namicheishvili O.M., Gogiashvili M.A. Two Methods of Obtaining a Minimal Upper Estimate for the Error Probability of the Restoring Formal Neuron. Georgian

- Engineering News, ISSN 1512-0287, Tbilisi, 2013, no. 4, vol. 67, pp. 11-18
159. Archil Prangishvili, Oleg Namicheishvili, Maia Gogiashvili. Adaptation Models of Formal Neuron // Georgian Electronic Scientific Journals (GESJ): Computer Sciences and Telecommunications, 2013, no. 3 (39), pp. 118-152  
(<http://gesj.internet-academy.org.ge/download.php?id=2200.pdf>).
  160. A.I. Prangishvili, O.M. Namicheishvili, M.A. Gogiashvili. Two Methods of Obtaining a Minimal Upper Estimate for the Error Probability of the Restoring Formal Neuron. Recent Advances in Mathematical Methods, Mathematical Models and Simulation in Science and Engineering, Proceedings of the 2014 International Conference on Mathematical Methods, Mathematical Models and Simulation in Science and Engineering (MMSSE 2014), Interlaken, Switzerland, February 22-24, 2014, Edited by Maria Isabel Garcia-Planas, George Vachtsevanos, Gen Qi Xu, Mathematics and Computers in Science and Engineering Series - 23, pp. 37-41.
  161. A.I. Prangishvili, O.M. Namicheishvili, M.A. Gogiashvili. Two Methods of Obtaining a Minimal Upper Estimate for the Error Probability of the Restoring Formal Neuron. International Journal of Engineering and Technical Research (IJETR), ISSN: 2321-0869, Volume-02, Issue-02, February 2014, pp. 64-68:  
[https://www.erpublication.org/page/view\\_issue/volume2-issue2](https://www.erpublication.org/page/view_issue/volume2-issue2)  
[https://www.erpublication.org/published\\_paper/IJETR021233.pdf](https://www.erpublication.org/published_paper/IJETR021233.pdf)
  162. A.I. Prangishvili, I.A. Gorgidze, O.M. Namicheishvili, M.A. Gogiashvili. Two Methods of Obtaining a Minimal Upper Estimate for the Error Probability of the Restoring Formal Neuron // XII All-Russian meeting on governance, dedicated to the 75 anniversary of the V.A. Trapeznikov Institute of Control Sciences of Russian Academy of Sciences (RAS), Proceedings of the XII All-Russian meeting on governance, Moscow, Russia, June 16-19, 2014, pp. 4018-4027:  
<http://vspu2014.ipu.ru/node/7095>, <http://vspu2014.ipu.ru/proceedings/prcdngs/4018.pdf>
  163. A.I. Prangishvili, I.A. Gorgidze, O.M. Namicheishvili, M.A. Gogiashvili. Incremental adaptation of the restoring formal neuron. In collected papers: The theory of active systems TAS-2014, Materials of a international theoretical and practical conference, November 17-19, 2014, Moscow / Edited by Doctor of Technical Science V.N. Burkov. Scientific Electronic Edition [http://www.mtas.ru/upload/library/tas2014/TAS\\_2014.pdf](http://www.mtas.ru/upload/library/tas2014/TAS_2014.pdf) Moscow: V.A. Trapeznikov Institute of Control Sciences of Russian Academy of Sciences, pp. 69-70. Website of the Conference <http://www.mtas.ru/seminar/tas2014/>
  164. Archil Prangishvili, Levan Imnaishvili, Oleg Namicheishvili. Expert systems (Intelligent assistants), Tbilisi: Publishing House «Technical University», 2015, 158 pages /Textbook/
  165. Prangishvili A.I., Kvirikashvili S.G., Namicheishvili O.M. Public relations in social management structure, Georgian Engineering News, ISSN 1512-0287, Tbilisi, 2015, no. 1, vol. 73, pp. 21-25
  166. Prangishvili A.I., Kvirikashvili S.G., Namicheishvili O.M. The Internet in the capacity of PR implementation and toolkit. Georgian Engineering News, ISSN 1512-0287, Tbilisi, 2015, no. 1, vol. 73, pp. 26-30
  167. Prangishvili A.I., Namicheishvili O.M. Accelerated testing of the products on durability and fatigue destruction. 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. 20-25
168. Archil Prangishvili, Oleg Namicheishvili, Zurab Gasitashvili, Darejan Verulava, Mzia Kiknadze. 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, Modeling, Control (ICT-MC 2015)», ISBN 978-9941-20-575-0, 2015, Tbilisi, pp. 163-168.
  169. Archil Prangishvili, Oleg Namicheishvili, Zurab Gasitashvili, Darejan Verulava, Mzia Kiknadze. 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.
  170. Prangishvili A.I., Gogiashvili Zh.G. Namicheishvili O.M., Ramazashvili M.T. The basic paradigm of expert systems. 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. 316-321.
  171. Prangishvili A.I., Namicheishvili O.M. Threat evaluation by the use of integrated conditional probabilities, Georgian Engineering News, ISSN 1512-0287, 2015, no. 4, vol. 73, pp. 11-17
  172. Prangishvili A.I., Namicheishvili O.M., Gasitashvili Z.A., Verulava D.I., Kiknadze M.G. Structuring and «weighing» of objectives in the task of sustainable development of the region. Georgian Engineering News, ISSN 1512-0287, 2016, no. 2, vol. 78, pp. 25-31
  173. Archil Prangishvili, Oleg Namicheishvili *Accelerated Testing of Devices on Durability and Fatigue Failure* World Journal of Engineering and Technology – WJET, 2016, vol. 4, no. 2, Irvine (CA), USA; Scientific Research Publishing Inc., pp. 200-205
  174. O. Namicheishvili, A. Prangishvili. Linear Mathematical Theory of Accelerated Life Testing, Journal of Mathematical Sciences, July 2016, vol. 216, iss. 4, pp 580–585.
  175. A. Prangishvili, O. Namicheishvili. «Accelerated Test Models», in Chapter 2 of the book: Ivane Gorgidze, Tamar Lominadze, Maka Khartishvili and Ketevan Makhashvili (Editors), *Information and Computer Technology, Modeling and Control*, ISBN: 978-1-53612-094-3, Series: Computer Science, Technology and Applications, New York: Nova Science Publishers, 2017.
  176. Z. Gasitashvili, O. Namicheishvili, T. Dvali, L. Gochitashvili, M. Ramazashvili and L. Lekiashevili, «Communication in the Internet of Things», in Chapter 30 of the book: Ivane Gorgidze, Tamar Lominadze, Maka Khartishvili and Ketevan Makhashvili (Editors), *Information and Computer Technology, Modeling and Control*, Series: Computer Science, Technology and Applications, New York: Nova Science Publishers, 2017, ISBN: 978-1-53612-094-3.
  177. A. Prangishvili, O. Namicheishvili, Z. Gasitashvili, D. Verulava, M. Kiknadze, M. Ramazashvili, and L. Lekiashevili, «Conceptual Approach to Regional Development of Georgia», in Chapter 32 of the book: Ivane Gorgidze, Tamar Lominadze, Maka Khartishvili and Ketevan Makhashvili (Editors), *Information and Computer Technology, Modeling and Control*, Series: Computer Science, Technology and Applications, New York: Nova Science Publishers, 2017, ISBN: 978-1-53612-094-3.
  178. A. Prangishvili, O. Namicheishvili, Z. Gasitashvili, D. Verulava, M. Kiknadze, M. Ramazashvili, and L. Lekiashevili, «Problems of the Regional Development in Georgia», in Chapter 33



- of the book: Ivane Gorgidze, Tamar Lominadze, Maka Khartishvili and Ketevan Makhashvili (Editors), *Information and Computer Technology, Modeling and Control*, Series: Computer Science, Technology and Applications, ISBN: 978-1-53612-094-3, New York: Nova Science Publishers, 2017.
179. Oleg Namicheishvili, Iveri Prangishvili, Jr. «Restoration of a Planar Image by Neural Network», *American Journal of Engineering Research (AJER)*, Volume 6, Issue 8, 2017, pp. 345-359: [http://www.ajer.org/v6\(08\).html](http://www.ajer.org/v6(08).html); [http://www.ajer.org/papers/v6\(08\)/ZP0608345359.pdf](http://www.ajer.org/papers/v6(08)/ZP0608345359.pdf)
  180. Archil Prangishvili, Oleg Namicheishvili. Use of Neuron Networks in «Smart Home» Systems, Plenary report. The Conference devoted to the 90<sup>th</sup> anniversary of Professor K. Kamkamidze «Digital Technologies: Today and Challenges», Georgia, Tbilisi, May 28, 2018
  181. Guram Acharadze, Zhuzhuna Gogiashvili, Oleg Namicheishvili. Using of Kohonen neural net for data clusterization. Section report. The Conference devoted to the 90<sup>th</sup> anniversary of Professor K. Kamkamidze «Digital Technologies: Today and Challenges», Georgia, Tbilisi, May 28, 2018.
  182. Guram Acharadze, Oleg Namicheishvili. Research of Kohonen's self-organizing maps by using of Matlab system. Section report. The Conference devoted to the 90<sup>th</sup> anniversary of Professor K. Kamkamidze «Digital Technologies: Today and Challenges», Georgia, Tbilisi, May 28, 2018.
  183. Prangishvili A. I., Namicheishvili O. M. «Notes on Error Back-Propagation Learning». Georgian Electronic Scientific Journals (GESJ): Computer Sciences and Telecommunications, ISSN 1512-1232, Tbilisi: Publishing House «Technical University», Electronic Media Department, 2018, no. 2 (54) [2018.04.08], pp. 57-75: [http://gesj.internet-academy.org.ge/ru/list\\_artic\\_ru.php?b\\_sec=comp](http://gesj.internet-academy.org.ge/ru/list_artic_ru.php?b_sec=comp)
  184. Oleg Namicheishvili, Zhuzhuna Gogiashvili. *Engineering Ethics*. - Tbilisi: Publishing House «Technical University», 2019, 186 pages. ISBN: 978-9941-28-503-5 /Textbook/
  185. Maia Gogiashvili, Oleg Namicheishvili, Archil Prangishvili, and Michael Ramazashvili. «Construction of Neural Networks for the Approximation of a Function of One Variable», PROCEEDINGS of the 9<sup>th</sup> Eurasian Multidisciplinary Forum, September 4-5, 2019, Batumi, Georgia, organized by European Scientific Institute (ESI) and Grigol Robakidze University, pp.93(103)-111(121)
  186. Prangishvili A.I., Namicheishvili O.M., Ramazashvili M.T. Construction of Neural Networks for the Approximation of a Function of One Variable, Georgian Engineering News, ISSN 1512-0287, 2019, vol. 89, pp. 7-20
  187. Archil Prangishvili, Oleg Namicheishvili, Michael Ramazashvili. An overview of deep learning libraries, Work of GTU: Computer Science, ISSN 1512-0996, N2 (516), 2020, pp. 24-49, Tbilisi: Publishing House «Technical University».
  188. Archil Prangishvili, Oleg Namicheishvili, Michael Ramazashvili. Convolutionary neural networks. Works of GTU: Computer Science, ISSN 1512-0996, 2020, no. 3 (517), pp. 33-56, Tbilisi: Publishing House «Technical University»
  189. Archil Prangishvili, Oleg Namicheishvili. *Block Codes*, Tbilisi: Publishing House «Technical University», 2020, 376 pages. ISBN 978-9941-28-564-6 /Textbook/
  190. Archil Prangishvili, Oleg Namicheishvili, Zhuzhuna Gogiashvili. *Deep Learning*, Tbilisi: Publishing House «Technical University», 2020, 155 pages. ISBN 978-9941-28-612-4 /Textbook/
  191. O. Namicheishvili, Zh. Gogiashvili, G. Acharadze. «Visualization and Interpretation of Signs

- in Convolutional Neural Networks». Report at an XI Annual International Meeting of the Georgian Mechanical Union, August 27-29, 2020, Batumi, Georgia. Book of Abstracts, p. 107  
Organizers: Georgian Mechanical Union and Ivane Javakhishvili Tbilisi State University
192. Archil Prangishvili, Nino Mchedlishvili, Oleg Namicheishvili, *Artificial Neural Networks: Computer Modeling*, ISBN 978-9941-20-582-8 Tbilisi: Publishing House «Technical University», 2020, 347 pages /**Textbook**/
  193. Archil Prangishvili, Oleg Namicheishvili, Zhuzhuna Gogiashvili, Mzia Kiknadze. To the Question of the Output Signal Generation in the Recurrent Neural Networks, Bulletin of the Georgian National Academy of Sciences, vol. 15, no. 2, April, May, June, 2021, pp. 40-46.
  194. Prangishvili A.I., Namicheishvili O.M., Gogiashvili Zh.G., Kiknadze M.G., Ramazashvili M.T. Philosophy of Deep Learning, Georgian Engineering News, ISSN 1502-0287, Tbilisi, 2021, no. 1, vol. 92. pp.63-67.
  195. Archil I. Prangishvili, Oleg M. Namicheishvili. Artificial Neural Networks to Predict the Outbreaks of Severe Acute Respiratory Syndrome, International scientific-practical conference dedicated to the 30th anniversary of the Engineering Academy of the USSR, Russian and International Academies of Engineering «Perspective Problems of Engineering Science». May 13, 2021, Moscow.
  196. Oleg Namicheishvili, Zhuzhuna Gogiashvili, Mzia Kiknadze, Guram Acharadze. On the Long Short-Term Memory in the Recurrent Neural Networks. XXXV International Enlarged Session of the Seminar of Ilia Vekua Institute of Applied Mathematics, Tbilisi, 21-23 April, 2021, p. 8.
  197. Oleg Namicheishvili, Ekaterine Gvaramia, Konstantine Kulijanov, Guram Acharadze. Deconvolutional Neural Networks. XXXV International Enlarged Session of the Seminar of Ilia Vekua Institute of Applied Mathematics, Tbilisi, 21-23 April, 2021, p. 9.
  198. Oleg Namicheishvili, Michael Ramazashvili. *Fundamentals of switching circuits*, Tbilisi: Publishing House «Technical University», 2021, 200 pages /**Textbook**/
  199. Archil Prangishvili, Oleg Namicheishvili, Zhuzhuna Gogiashvili, Mzia Kiknadze. Survey of some Tendencies of Deep Learning, Bulletin of the Georgian National Academy of Sciences, ISSN-0132-1447, vol. 16, no. 3, 2022, pp.17-22.
  200. Archil Prangishvili, Oleg Namicheishvili, Michael Ramazashvili. *A Guide to Organization Theory: with Ready Tests, Crossword Puzzles, and Exercises*, Tbilisi: Publishing House «Technical University», ISBN 978-9941-28-710-4, 2022, 507 pages., UDC (Universal Decimal Classification) 65.0 /**Textbook**/
  201. Prangishvili A., Namicheishvili O., Gasitashvili Z., Verulava D., Kiknadze M. Models for the Sustainable Development of the Georgian Regions. In pp.40-51 of the: «Contemporary Business Challenges in a Globalized World: Research, Study, Examination», Volume 3 // **Collective Monograph**. Saarbrücken, Saarland, Germany; LAP LAMBERT Academic Publishing, 2022, 284 pages, UDC (Universal Decimal Classification) 332.05.
  202. Oleg Namicheishvili, Jujuna Gogiashvili, Mzia Kiknadze, Eka Gvaramia. *Machine Intelligence in the Services of Human Intelligence*, XIII Annual International Meeting of the Georgian Mechanical Union, Dedicated to 115 Birthday Anniversary and 45 Death Anniversary of Academician Ilia Vekua, Batumi, 24.08.2022-26.08.2022, Program, Parallel Sessions: Related Problems of Analysis, p. 29.
  203. Namicheishvili O., Gogiashvili J. *DOES ARTIFICIAL INTELLIGENCE HAVE A MIND?*

- Georgian Electronic Scientific Journal (GESJ): Computer Sciences and Telecommunications, Peer Reviewed Electronic Scientific Journal. Dedicated to the 100th anniversary of the Georgian Technical University. Publishers: Georgian Technical University and MICM – Muskhelishvili Institute of Computational Mathematics of the Georgian Technical University. Internet Academy 2001-2022, ISSN 1512-1232, 2022, no. 1 (61), pp. 32-39.
204. Oleg Namicheishvili, Jujuna Gogiashvili. *Matrix Calculus for Deep Learning: A Special Course*, Tbilisi: Publishing House «UNIVERSAL», 2022, 78 pages /**Textbook**/
  205. Oleg Namicheishvili, Jujuna Gogiashvili, *An overview of the latest trends in deep learning*, International Scientific-Practical Conference «Innovations and Modern Challenges - 2022», dedicated to the 100th anniversary of the Georgian Technical University and the 65th anniversary of the Faculty of Informatics and Control Systems, Tbilisi, 2022, November 18-19.
  206. Oleg Namicheishvili, Jujuna Gogiashvili, Michael Ramazashvili. *From Homo sapiens to Robo sapiens*, GEORGIAN ENGINEERING NEWS, no. 1, vol. 95, 2022, pp. 70-73, ISSN 1502-0287.
  207. Oleg Namicheishvili, Jujuna Gogiashvili, Michael Ramazashvili. Some selected examples of artificial intelligence, Georgian Engineering News, ISSN 1502-0287, no. 1, vol. 97, 2023, pp. 41-47,
  208. Archil Prangishvili, Oleg Namicheishvili, Jujuna Gogiashvili. *Which way to go: the road of trust or distrust in artificial intelligence ?* Tbilisi: Publishing House «UNIVERSAL», 2023, 136 pages /**Essay**/
  209. Oleg Namicheishvili, Jujuna Gogiashvili. Artificial Intelligence in the Service of Human Intelligence, Proceedings (Works) of the Georgian Technical University, ISSN 1512-0996, no 1 (527), 2023, pp. 38-49
  210. Report prepared as part of the project «Issues in Defining and Developing a National Artificial Intelligence Strategy»: «*Artificial Intelligence and Geopolitics*». The report was considered at the university seminar on March 6, 2023. Accepted for publication: Proceedings (Works) of the Georgian Technical University, ISSN 1512-0996, no 3 (529), 2023, pp.55-82
  211. Archil Prangishvili, Oleg Namicheishvili, Jujuna Gogiashvili. Machine learning in exercises, Collection of exercises with solutions, Tbilisi: UNIVERSAL Publishing House, 2023, 92 pages, ISBN 978-9941-33-418-4 /**Textbook**/
  212. Archil Prangishvili, Oleg Namicheishvili, Jujuna Gogiashvili. Introduction to Machine Learning, Course of Lectures, Tbilisi: Publishing House "Technical University", 2024, 374 pages /**Textbook is in print**/

**Note:** among 212 publications there are 5 monographs, 27 textbooks, of which one is electronic, one essay published as a book and one patent certificate related to a utility model. The remaining 178 publications are articles, one part of which is published in scientific journals in Georgia and the other part is published abroad. During the last ten years (2014-2023) 52 papers have been published.