**Beraia Nino**

**2013-2023 Scientific works carried out (by years)**

- **Monographs**

1. N. Beraya, E. Bochoridze, E. Gvaramia. Changing properties related to the accuracy of estimating regression coefficients of Simplex-lattice plans under experiment error conditions. Selected issues of modern science. Monograph. Part XVII. / Scientific Ed., S. Acutina. - M.: Publishing house "pero", 2015. - 125 PP. ISBN 978-5-00086-618-4.
2. E. Gvaramia, N. Beraia. Research on the properties of second-and Third-Order rotatable plans under experiment errors. Tbilisi: Technical University, 2013., 157 PP. ISBN 978-9941-20-319-0.

- **Articles**

1. Beraia N., Shekunov A., Timofeev P., Tokadze L. On the issue of effective use of information technologies in the adaptation of foreign students and the optimization of educational processes. Scientific discussion (Praha, Czech Republic), Vol 1, No 82, (2023), p. 32-36. ISSN 3041-4245; DOI: 10.5281/zenodo.10117504.
2. Beraia N. International cooperation as a factor in improving the quality of the educational process. The proceedings of The International Scientific-Practical Conference on "The Fourth Industrial Revolution and Innovative Technologies" dedicated to the 100th anniversary of the National Leader Heydar Aliyev, Part 1, Azerbaijan University of Technology, 2023, p.195-197. ISBN 9789952390032.
3. Beraia N., Tokadze L. Algorithm for generating experimental points for a quadratic model of three-component simplex- lattice plans under experimental errors. Deutsche internationale Zeitschrift für zeitgenössische Wissenschaft, №27 2022, p. 65-69. DOI: 10.24412/2701-8369-2022-27-65-69.
4. Beraia N., Tokadze L. Algorithm for generating experimental points for an incomplete cubic model of three-component simplex-lattice designs, subject to errors of measurement. Works. Automated control systems № 2(34), 2022, p. 96-100. ISSN 1512-3979 (print) EISSN 1512-2174 (online) DOI.org/10.36073/1512-3979.
5. L. Imnaishvili, M. Tevdoradze, N. Beraia. Evaluation of the achievement of learning outcomes of educational program based on the final project/theses. International Conference on Global Practice of Multidisciplinary Scientific Studies Dedicated to the 100th Anniversary of "Georgian Technical University - GTU", June 24-26, 2022/Tbilisi, Georgia, PROCEEDINGS BOOK, 923-931 pp. ISBN: 978-625-8323-63-4.
6. N. Beraya, L. Tokadze, I. Karoyan. The effect of measurement errors on the orthogonality property of the non-compositional three-level second-order box-Behnken central point plan. Science and innovation in the modern world: a collection of scientific articles. Part I / scientific editor, S. Acutina. - M.: Publishing house "pero", 2018, P.153-157. ISBN 978-5-00122-947-6 (general) ISBN 978-5-00122-948-3 (Part 1).
7. N. Beraya, L. Tokadze, I. Karoyan. Analysis of the influence of experimental errors on the D-optimality of the second-order Box-Bankin decomposed three-level plan. Theoretical and practical potential of modern science: a collection of scientific articles. Part I / scientific editor, S. PT. Acutina. - M.: Publishing house "pero", 2018. PG. 94-98. (ISBN 978-5-00122-915-5 (general) ISBN 978-5-00122-916-2 (Part 1)).
8. N.Beraia, E. Bochoridze, E. Gvaramia. The study of changes in the E-optimality property, while simultaneously placing different errors on components of First-Order and second-order plans. Modern science: theoretical and practical vision: materials of the VII international scientific-practical conference: collection of scientific papers/ scientific Ed. Rudakova J. A.- M.: Publishing house "pero", 2017, PG. 139-145.
9. N. Beraia, I. Karoyan, L. Tokhadze. Using the Kohren criterion to determine the presence of scattering and ejection in inter-laboratory comparison. In the world of scientific discoveries: Proceedings of the XXII international scientific and practical conference: collection of scientific papers / scientific editor S. PT. Acutina. - M.: Publishing house "pero", 2017, PG. 91-95.

10. N. Beraia, E. Bochoridze, E. Gvaramia. Investigating changes in the A-optimality property while simultaneously imposing different errors on the components of a second-order simplex plan. Current issues of modern science and education: materials of the IV international scientific-practical conference: collection of scientific papers / scientific Ed. Y. Rudakova, M.: Publishing house "pero", 2017, PG. 9-13.
11. N. Beraia, E. Bochoridze, E. Gvaramia. A study of changes in the orthogonality property of second-order two-component simplex plans when applying various errors. In the world of scientific discoveries: materials of the XXI international scientific and practical conference: collection of scientific papers / scientific Ed. S. Akutina, M.: Publishing house "pero", 2016, PG. 63-67.
12. N. Beraia, E. Bochoridze, E. Gvaramia. Replacing the covariational Matrix trace for a first-order two-component simplex plan by applying various errors. Modern science: theoretical and practical vision: materials of the V international scientific-practical conference: collection of scientific papers / scientific Ed. Y. Rudakova-M.: Publishing house "pero", 2016, PG.63-66.
13. N. Beraia, I. Karoyan, L. Tokadze. Construction and use of Juden diagrams in testing quality through inter-laboratory comparisons. Russia, Moscow: publishing house "pero". "Integration of Science and practice in modern conditions". Materials of the VI international scientific-practical conference: collection of scientific papers / scientific Ed. C. Grebenshchikov, 2016, PG.73-78.
14. I. Karoyan, N. Beraia, L. Tokadze. Determining the presence of scattering and ejection in inter-laboratory comparisons using the Grabbs criterion. Tbilisi, Georgian Engineering news, № 3, 2016, PG. 27-31.
15. 15. E. Bochoridze, N. Beraya, E. Gvaramia. Change in the D-optimality property of a first-order two-component simplex plan when applying various errors. Tbilisi, Georgian Engineering news, № 3, 2016, PG.23-26.
16. N. Beraia, E. Bochoridze, E. Gvaramia. The effect of measurement errors on a property that minimizes the maximum dispersion of predicted four-component simplex-lattice plans. Russia, M.: Publishing house "pero". "Integration of Science and practice in modern conditions". Proceedings of the III international scientific-practical conference, 2015, p. 105-113.
17. 17. N. Beraia, E. Gvaramia, E. Bochoridze. Study the properties related to the accuracy of determining the coefficients of the regression equation for third-order three-factor rotatable plans, taking into account errors in the means of measurement. Russia, Moscow, ИПУ РАН, ВСПУ-Proceedings of 2014, 2014, PG. 4408-4415.

- **Conferences**

1. N. Beraia. International cooperation as a factor in improving the quality of the educational process. Materials of the international scientific and practical conference on the topic "the Fourth Industrial Revolution and innovative technologies", dedicated to the 100th anniversary of the national leader Heydar Aliyev, Azerbaijan Technological University, ganja, 2023, May 3-4.
2. L. Imnaishvili, M. Tevdoradze, N. Beraia. Assessment of achievement of educational program learning outcomes based on final project/thesis. Evaluation of the achievement of learning outcomes of educational program based on the final project/theses. International Conference on Global Practice of Multidisciplinary Scientific Studies Dedicated to the 100th Anniversary of "Georgian Technical University - GTU", June 24-26, 2022.
3. N. Beraia, L. Tokadze, I. Karoyan. The effect of measurement errors on the orthogonality property of the non-compositional three-level second-order Box-Behnken central point plan. Science and innovation in the modern world. Russia, Taganrog, 2018, December 29.
4. N. Beraia, L. Tokadze, I. Karoyan. Analysis of the influence of experimental errors on the D-optimality of the second-order box-Benkin decomposed three-level plan. Theoretical and practical potential of modern science. Russia, Taganrog, 2018, December 19.
5. N. Beraia, E. Bochoridze, E. Gvaramia. The study of changes in the e-optimality property, while simultaneously placing different errors on components of First-Order and second-order plans. Modern science: theoretical and practical vision: VII international scientific-practical conference. Russia, Krasnodar, 2017, April 19.

6. N. Beraia, I. Karoyan, L. Tokadze. Using the Kohren criterion to determine the presence of scattering and ejection in inter-laboratory comparison. In the world of scientific discoveries: XXII international scientific and practical conference, Russia, Vladikavkaz, 2017, March 31.
7. N. Beraia, E. Bochoridze, E. Gvaramia. Investigating changes in the A-optimality property while simultaneously imposing different errors on the components of a second-order simplex plan. Current issues of modern science and education: IV international scientific-practical conference, Russia, Sochi, January 9.
8. N. Beraia, E. Bochoridze, E. Gvaramia. A study of changes in the orthogonality property of second-order two-component simplex plans when applying various errors. In the world of scientific discoveries: XXI international scientific and practical conference Russia, Krasnodar, 2016, December 26.
9. N. Beraia, E. Bochoridze, E. Gvaramia. Replacing the covariational Matrix trace for a first-order two-component simplex plan by applying various errors. Modern science: theoretical and practical vision: V international scientific-practical conference, Russia, Taganrog, 18 2016, August.
10. N. Beraya, Y. Karoyan, ll. Tokadze. Construction and use of Juden diagrams in testing quality through inter-laboratory comparisons. "Integration of Science and practice in modern conditions". VI international scientific-practical conference Russia, Taganrog, 2016, June 20.
11. 11. N. Beraia, E. Bochoridze, E. Gvaramia. The effect of measurement errors on a property that minimizes the maximum dispersion of predicted four-component simplex-lattice plans. "Integration of Science and practice in modern conditions". III international scientific-practical conference, 2015, February 28.
12. 12. N. Beraia, E. Gvaramia, E. Bochoridze. Study the properties related to the accuracy of determining the coefficients of the regression equation for third-order three-factor rotatable plans, taking into account errors in the means of measurement. ИПУ РАН, ВСПУ-2014, Russia, Moscow, 2014, June 19.

- **Textbooks**

1. N. Beraia, L. Tokadze, E. Gvaramia. Computer literacy. Manual in Russian. Tbilisi: "Technical University", 2022, - 297 P. ISBN 978-9941-28-923-1.
2. N. Beraia, E. Gvaramia, I. Karoyan. "Fundamentals of working with databases" (Access 2013). Auxiliary manual in Russian. Tbilisi: "Technical University", 2017, 182 P. ISBN 978-9941-20-785-3.
3. N. Beraia, E. Gvaramia, E. Bochoridze. Project management through MS Project 2013. Auxiliary manual in Russian. Tbilisi: "Technical University", 2017, 138 P. ISBN 978-9941-20-776-1.
4. I. Zedginidze, N. Beraia. Measuring methods for determining the quality of products. Part I: methods and means of measuring mechanical quantities (auxiliary manual). Tbilisi: publishing house "Technical University", 2013, 132 PP. ISBN 978-9941-20-357-2 (both parts), ISBN 978-9941-20-358-9 (first part).
5. I. Zedginidze, N. Beraia. Measuring methods for determining the quality of products. Part II: methods and means of measuring time, linear and angular quantities (auxiliary manual). Tbilisi: publishing house "Technical University". 2013., 206 PP. ISBN 978-9941-20-357-2 (both parts), ISBN 978-9941-20-359-6 (second part).