



**Bezhan Ghvaberidze**

**Associate Professor**

**Theoretical Informatics**

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**Education:**

- **University Diploma in Mathematics (Computational Mathematics), Ivane Javakhishvili Tbilisi State University**
- **Ph.D, in Mathematical Cybernetics, Ivane Javakhishvili Tbilisi State University, I. Vekua Institute of Applied Mathematics**

**Teaching Courses:**

- **Operations Research**
- **Mathematical Programming**
- **Combinatorial Optimization**
- **Multicriteria Optimization**

**Research Interests**

- **Operations Research**
- **Discrete Multicriteria Optimization**
- **Fuzzy Optimization (Fuzzy covering and partitioning problems, vehicle routing problems)**

**Performed Selected projects**

- **2015-2017 The New Model of Vehicle Routes Planning in Extreme and Uncertain Environment (SRNF: AR/26/5-111/14).**
- **2014-2015 Intelligent Support System for Optimal Route Planning for Transportation of Goods (MTCU/23/4-102/13), (STCU-SRNSF#5891).**

## Selected Publications

1. G. Sirbiladze, **B. Ghvaberidze**, B. Matsaberidze and A. Sikharulidze, Multi-Objective Emergency Service Facility Location Problem Based on Fuzzy TOPSIS, Bulletin of the Georgian National Academy of Sciences, 11(1), 23-30, 2017.
2. G. Sirbiladze, **B. Ghvaberidze**, B. Matsaberidze, A New Fuzzy Model of the Vehicle Routing Problem for Extreme Conditions, Bulletin of the Georgian National Academy of Sciences, vol. 9, no. 2, 46-53, 2015 .
3. G. Sirbiladze, **B. Ghvaberidze**, B. Matsaberidze, Bicriteria Fuzzy Vehicle Routing Problem for Extreme Environment. Bulletin of the Georgian National Academy of Sciences, vol. 8, no. 2, 41-48, 2014.
4. G. Sirbiladze, **B. Ghvaberidze**, B. Matsaberidze, A. Sikharulidze and G. Mgeladze, A New Approach in Fuzzy Vehicle Routing Problem: Theoretical Foundations, Georgian International Journal of Science and technology, Vol. 6, N. 4, 339-352, 2014, Nova Science Publishers, Inc.
5. G. Sirbiladze, I. Khutsishvili and **B. Ghvaberidze**, Multistage decision-making fuzzy methodology for optimal investments based on experts' evaluations, *European Journal of Operational Research, Elsevier pub.*, 232, 2014, 169–177.
6. G. Sirbiladze, A. Sikharulidze, **B. Ghvaberidze**, and B. Matsaberidze, Fuzzy-Probabilistic Aggregations in the Discrete Covering Problem. Part I: Representation of the Most Typical Value (MTV) through Associated Probabilities . Georgian International Journal of Science and technology, Volume 6, Numbera 1-2, 1-18, 2012, Nova Science Publishers, Inc.
7. G. Sirbiladze, A. Sikharulidze, **B. Ghvaberidze**, and B. Matsaberidze, Fuzzy-Probabilistic Aggregations in the Discrete Covering Problem. Part II: The Use of MTV as a Tool to Aggregate an Uncertain Information in a Minimal Fuzzy Misbelief Criterion Representation of the Most Typical Value (MTV) through Associated Probabilities . Georgian International Journal of Science and technology, Volume 6, Numbera 1-2, 19-36, 2012, Nova Science Publishers, Inc
8. G. Sirbiladze, A. Sikharulidze, **B. Ghvaberidze** and B. Matsaberidze Fuzzy-probabilistic Aggregations in the Discrete Covering Problem. International Journal of General Systems. 2011, 40: 2, 169 -196.
9. G. Sirbiladze, **B. Ghvaberidze**, T. Latsabidze, B. Matsaberidze, Using Minimal Fuzzy Covering in Decision-making Systems. Information Sciences. An International Journal, 179, 2009, 2022-2027.
10. **B. Ghvaberidze**, On the Stability Locally Optimal Solution in Boolean Optimization Problem. Bulletin of the Georgian Academy of Science,3(1),60-61, 2009.
11. **B. Ghvaberidze**, Stability of Approximate Solutions of Boolean Optimization Problems. Bulletin of the Georgian Academy of Science,167(2),219-222, 2003.
12. G. Sirbiladze, **B. Ghvaberidze**, Possibility Analysis of the Fuzzy Covering Problem. Bulletin of the Georgian Academy of Science, 167(1), 47-50, 2003