



**Associate Professor
Mathematical Logic**

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Education:

- **University Diploma in Cybernetics (Physics-Cybernetics), Ivane Javakhishvili Tbilisi State University, 1965**
- **Ph.D, in Mathematical Logic, Algebra, Number Theory , Moscow State Pedagogical University, 1976**
- **Doctor of Sciences in Physics and Mathematics, Ivane Javakhishvili Tbilisi State University, 2006**

Teaching Courses:

- **Discrete Structures**
- **Foundations of Fuzzy Logic**
- **Algebraic Analysis of Many Valued Logic**
- **Algebraic Analysis of Non-Classical Logic**
- **Algebraic and Relational Analysis of Modal Logic**

Research Interests

- **many-valued logic, Lukasiewicz logic, algebraic logic, intuitionistic logic, modal logic and corresponding to them algebras**

Participation in Research Grant Projects (last 5 projects)

- **2011-2012, Structural and computational properties of logical structures, CNRS – SNRSF, Coordinator from Georgian side**
- **2012-2013, Structural and computational properties of logical structures II, CNRS – SNRSF, Coordinator from Georgian side**
- **2010 – 2012, Unification, Free Algebras and Projectivity in some Varieties of Algebras with residuations, SNRSF, Principal Investigator**
- **2012- 2016, Projectivity, unification and structurally completeness in the variety of monadic MV-algebras, SNRSF, Principal Investigator**

Selected List of Publications

№	Publication Title	Journal Title, Series Volume Issue (Year Published): Page(s) “, Book / Monograph Edition #, Series Publisher, Year Published
1	Formulas of One Propositional Variable in the Intuitionistic Logic With the Solovay Modality	Logic and Logical Philosophy, Vol. 17 (2008), No. 1–2, 111-127.
2	Projective MV-algebras	International Journal of Approximate Reasoning, v. 47 (2008), pp. 323-332.
3	Representations of monadic MV-algebras	Studia Logica, vol. 81, Issue October 15th, 2005, pp. 125-144.
4	On Monadic MV-algebras	APAL, Vol. 128, Issues 1-3 (August 2004), pp. 125-139.
5	A discrete representation of free MV-algebras	MATHEMATICAL LOGIC QUARTERLY, 56, No. 3, 279 – 288 (2010)
6	Gödel spaces and perfect MV-algebras	Journal of Applied Logic, Volume 13, Issue 3, 2015, pp. 270–284.
7	Multimodal epistemic Łukasiewicz logics with application in immune system	Soft Computing, Volume 19, Issue 11 (2015), pp. 3341-3351.
8	Free and Projective Bimodal Symmetric Gödel Algebras	Studia Logica, Vol. 103, No. 5, (2015), pp. 1-29.
9	Structural Completeness and Unification Problem of the Logic of Chang Algebra	Azerbaijan Journal of Mathematics V. 6, No 1, January, 2016, pp. 23-38
10	Fuzzy Logic of Quasi-Truth: An Algebraic Treatment	Springer, Series: Studies in Fuzziness and Soft Computing, Vol. 338, 117 pages, 2016. (monograph)
11	Algebraic analysis of Łukasiewicz-Tarski n-valued logical systems	Selected papers on Łukasiewicz Sentential Calculi, Wrocław, 81-91 (1977)