

Miodrag Rašković

(November 3, 1951 – February 15, 2025)

Biography

Miodrag Rašković was born on November 3, 1951, in Kragujevac, and passed away on February 15, 2025, in Belgrade. He completed elementary school and high school in Kragujevac with excellent grades in 1970. That same year, he enrolled in the mathematics program at the Faculty of

Natural Sciences and Mathematics in Belgrade (Prirodno-matematički fakultet, Beograd). He graduated in 1975 and immediately began his postgraduate studies at the same institution. He earned his master's degree in 1978 with a thesis titled "Foundations of Non-Standard Analysis" and his doctorate in 1983 at the same faculty with a dissertation titled "Logics with Measure in Leibniz's Universe" (supervisor Prof. Žarko Mijajlović). In 1980, he spent four months at the University of Warsaw as a scholarship recipient from the Polish government, and in 1986, he spent three months at the University of Wisconsin, Madison (USA).

He was appointed as a teaching assistant at the Faculty of Sciences and Mathematics in Kragujevac (Prirodno-matematičkoi fakultet, Kragujevac) in 1976, promoted to assistant in 1979, to assistant professor in 1984, to associate professor in 1989, and to full professor in 1996. He worked at the Faculty of Sciences and Mathematics in Kragujevac until 2003. From 2003 to 2005, he was a professor at the Faculty of Education in Belgrade (Učiteljski fakultet, Beograd). He worked at the Mathematical Institute of the Serbian Academy of Sciences and Arts from 2006, when he was elected as a research professor in 2006, until his retirement on November 3, 2018.

He was a member of the Scientific-Teaching Council of the University of Kragujevac (Naučno-nastavno veće Univerziteta u Kragujevcu), a member of the Committee for Mathematics of the Republic Council for Science (Odbor za matematiku Republičke zajednice za nauku), a member of the Council of experts the University of Kragujevac (Stručno veće Univerziteta u Kragujevcu), and the Chairman of the Institute of Mathematics at the Faculty of Sciences and Mathematics in Kragujevac (1993-1999). He served as the President of the Managing Board of the Mathematical Institute (1993–1998) and as the Head of the Department of Mathematics and Mathematical Education (Katedra za matematiku i metodiku nastave matematike) at the Faculty of Education in Belgrade.

Since 1970's he was an active participant in the Mathematical Logic Seminar, which has been held at the Mathematical Institute. He was the founder and leader of the General Mathematics Seminar at the Faculty of Natural Sciences and Mathematics in Kragujevac. In 2000, he established the Seminar on Probabilistic Logics at the Mathematical Institute and led it until February 13, 2025. He was the initiator and chairman of the Program Committee for the conference "Probabilistic Logics and Applications," which was held annually from 2011 to 2017.

Research

The research interest for Miodrag Rašković included model theory, non-standard analysis, measure theory, non-classical logics, cylindrical algebras, and education, history and philosophy of mathematics. During his scientific career, he achieved outstanding results, among which the method of middle models stands out. This method was used to prove the completeness of several logical systems and solved some problems posed by the well-known mathematician J. H. Keisler. Additionally, he obtained important results by applications of non-standard analysis to solve functional equations. Concerning logics with probabilitic operators he proposed the use of infinitary inference rules to obtain the corresponding strongly complete axiomatizations, and the use of probability functions with non-standard domains to model nonmonotonic reasoning. Within the Seminar on Probabilistic Logics he formed an internationally recognized research group in the field of reasoning under uncertainty, which brought together numerous collaborators from

Belgrade, Novi Sad, Kragujevac, and Niš. More than 10 doctoral dissertations were defended within the work of this group.

In the doctoral thesis of M. Rašković, the first part presented the construction of Loeb's measure as well as its original application to functional equations, while the second part was an original contribution to the field of probabilistic logic, where a logic is considered that, instead of the usual quantifiers, employs measure quantifiers, yielding well-known results from model theory such as completeness, Robinson's consistency, and so on, using non-standard analysis as a method in the proof of some theorems. The third part of the thesis was dedicated to the construction of measure theory within an alternative set theory, and some original theorems from model theory were proven within the framework of this highly suitable alternative set theory. The papers of M. Rašković, Completeness theorem for biprobability models (The Journal of Symbolic Logic, Vol. 51, No. 3, Sept. 1986, 586-590, 1986), and Completeness theorem for singular biprobability models (Proceedings of The American Mathematical Society, Vol. 102, No. 2, 389-392, 1988), introduced perhaps the most significant result achieved by M. Rašković: the method of middle models. By applying this method, well-known open problems were either fully or partially resolved, notably including Keisler's problem, which was related to the completeness theorem for biprobabilistic logics. In the paper On extendability of models of ZFfin set theory to the models of alternative set theory (Proceedings of a Conference Held in September 1981 at Jadwisin near Warsaw, Poland, eds. W. Guzicki, W. Marek, A. Pelc, and C. Rauszer, Warsaw University, 259-264, 1982), models of alternative set theory were analyzed, and conditions under which models of ZFfin could be extended to models of alternative set theory were examined, which generated interest among the creators of alternative set theory in Czechoslovakia. The monograph Probability Quantifiers and Operators by Miodrag Rašković and Radosav Đorđević (Vesta Company, Belgrade, 1996) summarized up the results achieved by M. Rašković up to that point in the fields of logics with non-classical quantifiers and non-standard analysis.

Miodrag Rašković delivered four lectures at a seminar in Madison (USA) and also gave lectures in Heidelberg and Warsaw. His results were cited in world-renowned leading monographs in four distinct areas of mathematics:

- N.H. Bingham, CM: Goldie, J.L. Teugels; Regular varation, Cembridge University Press (Miodrag Rašković. An application of non-standard analisys to functional equations, Publications de L'Institute Matematique, NS tome 37 (51), 23-24, 1985).
- Nigel Cutland (edt), Nonstandard Analysis and its Applications, Cembridge University Press,1988 (Miodrag Rašković. An application of non-standard analisys to functional equations, Publications de L'Institute Matematique, NS tome 37 (51), 23-24, 1985).
- J. Barwise, S. Feferman (edts), Model Theoretic Logics Springer-Verlag (in the Chapter XIV on probbailitz quantifiers, written by H.J. Keisler, it was noted that some of the problems listed in that chapeter had been solved in the papers Miodrag Rašković. Model theory for LAM logic, Publications de L'Institute Matematique, NS tome 37 (51), 17-22, 1985, and Miodrag Rašković, Rade Živaljević. Barwise Completeness Theorems for some Biprobability logics, Zeitschr. f. math. logik und grundlugen d. Math., Bd. 32, 133-135, 1986).
- Petr Hájek, Meatamathematics of Fuzzy Logic, Trends in Logic Studia Logica Library (the monograph Miodrag Rašković, Radosav Đorđević. Probability Quantifiers and Operators.Vesta Company, Beograd, 1996).

He participated in the scientific projects:

- 1978-1990, Project Mathematcs as an external member of the Mathematical Institute of the Serbian Academy of Sciences and Arts, where since 1989 he led the research theme Model theory and non-standard analysis,
- 1988-1990, Project Artificial Intelligence, and 1991 1995, Project Computer Science and Artificial Intelligence,
- 1996-2000, Project Mathematical Logic, Combinatorics and Information Processing: Foundations and Applications of Computer Science,
- 2002–2005, Project 1585, History and Philosophy of Mathematics,
- 2002–2005, Project 1379 Methods of Mathematical Logic for Decision Support in Real Life Situations,
- 2006–2010, Project 144013 Representations of logical structures and their application in computer science,
- 2006–2010, Project 144050 History and philosophy of mathematics and natural sciences,
- 2011–2018, Project III 044006, Development of new information and communication technologies, based on advanced mathematical methods, with applications in medicine, telecommunications, power systems, protection of national heritage and education, where he led the subproject Inteligent systems for clinical consulting, and
- 2011–2018, Project 174026 Representations of logical structures and formal languages and their application in computing.

Teaching

Miodrag Rašković taught the courses Algebra I and Algebra II, Algebra and Logic, Model theory, Nonstandard analysis and Mathematics teaching methodology, at the Faculty of Sciences and Mathematics in Kragujevac (1984-2006). He also taught Mathematics I at the Faculty of Mechanical Engineering in Kragujevac. At the Faculty of Mathematics in Belgrade, he lectured on Mathematical Logic and a special course on Non-Standard Analysis. He organized and taught mathematics at the "Nikola Tesla" University in Knin, Republic of Serbian Krajina. From 2003 onward, he taught Mathematics I, Mathematics II, and Algebra (for postgraduate students) at the Faculty of Education in Belgrade. He supervised the doctoral dissertations of Radosav Đorđević (Kragujevac, 1991), Zoran Ognjanović (Kragujevac, 1999), and Nataša Glišović (Beograd, 2018), as well as the master's theses of Predrag Tanović (Beograd, 1985), Milanka Bradić (Beograd, 1996), Silvana Marinković (Beograd, 1997), and Nebojša Ikodinović (Kragujevac, 2001).

Miodrag Rašković - Bibliography

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