

Curriculum Vitae

Nebojša Ikodinović

PERSONAL DATA

Full name: Nebojša Ikodinović
Date of Birth: July 6, 1973, Serbia
Office Address: Nebojša Ikodinović
Office No. 835
Faculty of Mathematics
Studentski trg 16
11000 Belgrade
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Civil Status: Married, two children

EDUCATION AND ACADEMIC DEGREES

Ph. D. in Mathematics: Thesis: *Some Probability and Topological Logics*
University of Kragujevac, Serbia, March 2006
M. Sc. in Mathematics: Thesis: *Craig Interpolation Theorem for Probability Logic*
University of Kragujevac, Serbia, January 2001.
University education: Mathematics – Theoretical Mathematics and Applications
Faculty of Science, University of Kragujevac, 1992-96

POSITION HELD

2009 – Assistant Professor, Department of Algebra and Mathematical Logic, Faculty of Mathematics, University of Belgrade, Serbia
2006 – 2009 Assistant Professor, Department of Mathematics and Informatics, Faculty of Science, University of Kragujevac, Serbia
2001 – 2006 Assistant, Department of Mathematics and Informatics, Faculty of Science, University of Kragujevac
1997 – 2001 Teaching Associate, Department of Mathematics and Informatics, Faculty of Science, University of Kragujevac, Serbia

RESEARCH INTERESTS

- Mathematical logic; Applications of Mathematical Logic in Probability, Topology, Computer Science etc.
- Philosophy of Mathematics; Mathematics Teaching Methodology

SCIENTIFIC PUBLICATIONS

1. Nebojša Ikodinović, Zoran Ognjanović, Aleksandar Perović, Miodrag Rašković, *Hierarchies of probabilistic logics*, International Journal of Approximate Reasoning, Volume 55, Issue 9, 2014, 1830-1842
IF 2013: 1.997
2. Angelina Ilić-Stepić, Zoran Ognjanović, Nebojša Ikodinović, *Conditional p -adic probability logic*, International Journal of Approximate Reasoning, Volume 55, Issue 9, 2014, 1843-1865
IF 2013: 1.997
3. Nebojša Ikodinović, Miodrag Rašković, Zoran Marković, Zoran Ognjanović, *A first-order probabilistic logic with approximate conditional probabilities*, Logic Journal of IGPL, Volume 22 Issue 4, 2014, 539-564
IF 2012: 1.136
4. Nebojša Ikodinović, Miodrag Rašković, Zoran Marković, Zoran Ognjanović, *Logics with Generalized Measure Operators*, Journal of Multiple-Valued Logic and Soft Computing, Volume 20, Number 5-6, 2013, 527-555.
IF 2012: 1.047
5. Angelina Ilić-Stepić, Zoran Ognjanović, Nebojša Ikodinović, Aleksandar Perović, *A p -adic probability logic*, Mathematical Logic Quarterly, vol. 58 (4-5), 2012, 263-280.
IF 2012: 0.376
6. Vladimir Ristić, Radosav Đorđević, Nebojša Ikodinović, *Biprobability logic with conditional expectation*, Mathematical Logic Quarterly, Vol. 57 (4), 2011, 400-408.
IF 2012: 0.496
7. Zoran Ognjanović, Nebojša Ikodinović, *A logic with higher order conditional probabilities*, Publications de l'Institut Mathématique, ns. 82 (96), 2007, 141 -154
8. Nebojša Ikodinović, Miodrag Rašković, Zoran Marković, Zoran Ognjanović, *Measure Logic*, Lecture Notes in Computer Science (LNCS/LNAI), Vol. 4724, 2007, 128 - 138
IF 2005: 0.402
9. Radosav Đorđević, Nebojša Ikodinović, Žarko Mijajlović, *Completeness Theorem for Topological Class Models*, Archive for Mathematical Logic, 46, 2007, 1-8
IF 2007: 0.620
10. Zoran Ognjanović, Nebojša Ikodinović, Zoran Marković, *A logic with Kolmogorov style conditional probabilities*, Proceedings of the 5th Panhellenic logic symposium, Athens, Greece, July, 25-28, 2005, 2005, 111-116
11. Nebojša Ikodinović, Zoran Ognjanović, *A logic with coherent conditional probabilities*, Lecture Notes in Computer Science (Subseries: Lecture Notes in Artificial Intelligence) Vol. 3571, 2005, 726-736
IF 2005: 0.402 [M23]
12. Nebojša Ikodinović, *Craig interpolation theorem for classical propositional logic with some probability operators*, Publications de l'Institut Mathématique, ns. 69 (83), 2001, 27-33

BOOKS IN SERBIAN

1. N. Ikodinović, M. Stanić, M. Pavlović, S. Simić, *Mathematics for Engineers 3*, Faculty of Engineering, University of Kragujevac, 2011
2. M. Rašković, N. Ikodinović, *Stories of Large and Small Numbers – Counting, Measuring and Reasoning ...*, Mathematical Institute of the Serbian Academy of Sciences and Arts, Mathematical Society of Serbia, 2010

3. M. Stanić, N. Ikodinović, *Number Theory – A Collection of Problems*, the Institute for School Books and Teaching Aids, Belgrade, 2004
 4. N. Ikodinović, *Group Theory – A Collection of Problems*, Faculty of Science, University of Kragujevac, 2003
- ❖ Author or co-author of the textbooks for 5th to 8th grades of Primary School and for 1st and 2nd grade of Secondary School, published by Klett, Serbia, and approved by the Ministry

CONGRESSES AND CONFERENCES

- B. Lasković, M. Rašković, N. Ikodinović, *Some applications of nonstandard analysis to functional equations*, 13th Serbian Mathematical Congress, Serbia, 2014
- N. Ikodinović, M. Rašković, Z. Marković, Z. Ognjanović, *Probability logics and their applications*, Novi Sad Conference in Mathematical Logic and General Topology, Serbia, 2012
- A. Ilić Stepić, Z. Ognjanović, N. Ikodinović, *Conditional p-adic probability logic*, ECAI 2012, 20th European Conference on Artificial Intelligence, Workshop on Weighted Logics for Artificial Intelligence WL4AI, Montpellier, France, 2012
- N. Ikodinović, Z. Ognjanović, A. Perović, M. Rašković, *Hierarchies of probability logics*, ECAI 2012, 20th European Conference on Artificial Intelligence, Workshop on Weighted Logics for Artificial Intelligence WL4AI, Montpellier, France, 2012
- N. Ikodinović, *Non-Archimedean probability measures*, Probabilistic logics and applications, Mathematical Institute of the Serbian Academy of Sciences and Arts, Belgrade, Serbia, 2012
- N. Ikodinović, M. Rašković, Z. Marković, Z. Ognjanović: *A first-order probabilistic logic with approximate conditional probabilities*, Probabilistic logics and applications, Mathematical Institute of the Serbian Academy of Sciences and Arts, Belgrade, Serbia, 2011
- M. Rašković, Z. Marković, N. Ikodinović, *Probability logics and the range of probabilities*, International Conference on Numerical and Applied Mathematics, Kragujevac, Serbia, 2006
- N. Ikodinović, Z. Ognjanović, *A logic with higher order conditional probabilities*, *Relevance of Logic – To the Memory of Aleksandar Kron (1937-2000)*, Serbia, 2005.
- R. Djordjević, N. Ikodinović, *A Topological Class Logic*, XI Congress of mathematicians, Petrovac, Serbia and Montenegro, 2004.

PROJECTS

- 2011 – *Representations of logical structures and formal languages and their application in computing*, supported by the Ministry of Science, Technology and Development, Republic of Serbia, Fundamental Research Project 174026
- 2011 – *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*, supported by the Ministry of Science, Technology and Development, Republic of Serbia, Interdisciplinary Project III 044006
- 2006 – 2010 *Representations of logical structures and their application in computer science*, supported by the Ministry of Science and Environment Protection of Serbia and Montenegro, under grant 144013

2002 – 2005 *Methods of Mathematical Logic for Decision Support in Real Life Situation*, supported by the Ministry of Science, Technology and Development of Serbia and Montenegro, under grant 1379

- ❖ Participated in many projects of the Institute for Improvement of Education, Serbia (2011, 2012, 2013, 2014, 2015)

TEACHING EXPERIENCE

FACULTY OF MATHEMATICS, UNIVERSITY OF BELGRADE, 2009 –

UNDERGRADUATE STUDIES

- Introduction to Mathematical Logic
Course Notes in Serbian:
<http://www.matf.bg.ac.rs/p/nebojsa-ikodinovic/cas/1191/uml---skripta/>
- Mathematical Logic in Computer Science
- Theory of Algorithms
- Theory of Computability
- Discrete Structures 1
- Teaching Methodology in Mathematics and Computer Science

GRADUATE STUDIES (MASTER-DEGREE STUDIES)

- Selected Topics of Mathematical Logic
- Theoretical Computer Science

PHD STUDIES

- Theory of Automata and Formal Languages
 - Nonclassical Logics
 - Discrete Mathematics
- ❖ Several years of work with primary and high school students (11-18 years old), talents for mathematics; Preparation for national and international competitions

ACTIVITIES RELATED TO PH.D THESES

THESIS ADVISOR TO

- Vladimir Ristić, *Logics with integrals and conditional expectation operators*, Faculty of Science, University of Kragujevac, Serbia, 2013

MEMBER OF THE PH.D. JURIES

- Slavko Moconja, *Asymmetric regular types*, Faculty of Mathematics, University of Belgrade, accepted (supervisor: Predrag Tanović)
- Jelena Jovanović, *Locally Finite Varieties with semidistributivity congruence lattices*, Faculty of Mathematics, University of Belgrade, accepted (supervisor: Predrag Tanović)
- Angelina Stepić Ilić, *On the formalization of p -adic, qualitative and conditional probabilities*, Faculty of Mathematics, University of Belgrade, Serbia, 2012 (supervisor: Zoran Ognjanović)

- Dragan Doder, *Applications of infinitary logics in probabilistic-temporal reasoning and model theory*, Faculty of Mathematics, University of Belgrade, Serbia, 2011 (supervisor: Zoran Ognjanović)

LECTURES

SEMINARS

- *Nonmonotonic reasoning*, Seminar on Computer Science and Applied Mathematics, Mathematical Institute of the Serbian Academy of Sciences and Arts, 2015
- *Introduction to Group Theory*, Department of Mathematics of the Petnica Science Center, 2015
- *Nonstandard Analysis* (mini course), Seminar of Department of Algebra and Mathematical Logic, Faculty of Mathematics, University of Belgrade, 2014
- *Undecidable and Decidable Problems in Mathematics*, Department of Mathematics of the Petnica Science Center, 2013
- *Forcing with Random Variables*, Seminar of Department of Algebra and Mathematical Logic, Faculty of Mathematics, University of Belgrade, 2013
- *Generalized Quantifiers*, Seminar for Probability Logic, Mathematical Institute of the Serbian Academy of Sciences and Arts, 2013
- *Logics with Integrals*, Seminar for Probability Logic, Mathematical Institute of the Serbian Academy of Sciences and Arts, 2013
- *On mathematical problems for high school students*, Seminar on Mathematics and Computer Science Education in primary and secondary schools, Mathematical Society of Serbia, 2013
- *Visualization in school mathematics*, Seminar on Mathematics and Computer Science Education in primary and secondary schools, Mathematical Society of Serbia, 2012
- *Mathematical Induction and Recursion*, Seminar on Mathematics and Computer Science Education in primary and secondary schools, Mathematical Society of Serbia, 2011/2012
- *Laws of Thought and Forms of Reasoning in Mathematics*, Seminar on Mathematics and Computer Science Education in primary and secondary schools, Mathematical Society of Serbia, 2010
- *Geometry for Elementary School*, Seminar on Mathematics and Computer Science Education in primary and secondary schools, Mathematical Society of Serbia, 2009
- *Mathematics for Elementary School*, Seminar on Mathematics and Computer Science Education in primary and secondary schools, Mathematical Society of Serbia, 2008 (co-author S. Dimitrijević)
- *Introduction to Limits*, Seminar on Mathematics and Computer Science Education in primary and secondary schools, Mathematical Society of Serbia, 2006/2007

TALKS/ POPULAR LECTURES

- *Cauchy and Infinitesimals*, May Month of Mathematics, Center for the Promotion of Science, Belgrade, Serbia, 2013
- *Wonderful World of Infinity*, May Month of Mathematics, Center for the Promotion of Science, Belgrade, Serbia, 2012

OTHER PROFESSIONAL ACTIVITIES

- Editor-in-Chief of *Tangenta*, Publication of Mathematical Society of Serbia (a periodical on mathematics and computer science intended for students and teachers in secondary schools), 2003 – present
- Associate Editor of Kragujevac Journal of Mathematics, University of Kragujevac, Faculty of Science, 2007 – present
- Member of Programme Committee for Conference *Probabilistic logics and applications*, Mathematical Institute of the Serbian Academy of Sciences and Arts, Belgrade, Serbia, 2011, 2012, 2013, 2014
- Refereeing for the journals: *Mathematical Logic Quarterly*, *Publications de l'Institut Mathématique – Nouvelle Série*, *Matematički Vesnik*, *Yugoslav Journal of Operations Research* etc.
- Member of the Committee for Mathematical High School Competitions in Serbia, 2001 – 2011