

CURRICULUM VITAE

Name Nebojša Mudrinski
Date of Birth January 16th 1978
Citizenship Serbian
Marital status Single
Current Office Department of Mathematics and Informatics
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University of Novi Sad
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Website

Fields of Interests in Mathematics Universal Algebra, Clone Theory, Commutator Theory

Education Ph.D. in Mathematics, September 30th, 2009
Title: On Polynomials in Mal'cev Algebras
Advisors for Ph. D.:

Ph.D. Dragan Mašulović, full professor
Department of Mathematics and Informatics
Faculty of Sciences
University of Novi Sad
Serbia
dragan.masulovic@dmi.uns.ac.rs

Ph.D. Erhard Aichinger, associate professor
Institute for Algebra
Johannes Kepler University
Linz
Austria
erhard@algebra.uni-linz.ac.at

M.S. in Mathematics, May 24th, 2005
Postgraduate studies in Mathematics, 2001
(Master studies)
Algebra with Mathematical Logic
Department of Mathematics and Informatics
Faculty of Sciences
University of Novi Sad
G.P.A. 10.00 (on the scale of 10)
Advisor for Master thesis:
Ph.D. Igor Dolinka, full professor
Department of Mathematics and Informatics
Faculty of Sciences
University of Novi Sad
Serbia
igor.dolinka@dmi.uns.ac.rs

Department of Mathematics and Informatics
Faculty of Sciences

University of Novi Sad, 1997-2001
B.Sc. in Mathematics, June 29th, 2001
G.P.A. 9.93 (on the scale of 10)
Grammar School "Jovan Jovanović Zmaj"
Novi Sad
Mathematics classes, 1993-1997

Languages spoken English, German, Serbian (mother tongue)

Prizes Prize for the best student at the Faculty of Science,
Novi Sad, 2001
Prize "Mileva Marić Einstein" for the best student paper, Novi Sad, 2001

Professional Experience Associate Professor, 1st February 2015 – present
Assistant Professor, 1st February 2010 – 2015
Teaching assistant, 1st October 2001 – 31st August 2005, 2nd June 2006 - 19th
January 2007 and 1st October 2007 – 31st January 2010
Civil Service, 1st September 2005 – 1st June 2006
Department of Mathematics and Informatics
Faculty of Sciences
University of Novi Sad
Serbia

Post Doctoral Research Stay, 15th February – 15th September 2012
Johannes Kepler University
Linz
Austria

Teaching and research assistant, 22nd January - 30th September 2007
Institute for Algebra
Johannes Kepler University
Linz
Austria

Scholarships ÖAD one month scholarship
Johannes Kepler University, Linz, Austria
April 2005, October 2006, June 2008, July 2011
Supervisor: E. Aichinger

- Papers**
1. N. Mudrinski, *Uniform Mal'cev Algebras With Small Congruence Lattices*, Algebra Universalis, **72** (2014), 57-69.
 2. E. Aichinger, N. Mudrinski, *On Various Concepts of Nilpotence for Expansions of Groups*, Publicationes Mathematicae Debrecen, **83/4** (2013), 583-604.
 3. N. Mudrinski, *2-supernilpotent Mal'cev Algebras*, Monatshefte für Mathematik **172** (2013), 161-166.
 4. E. Aichinger, N. Mudrinski, *Sequences of Commutator Operations*, Order **30** (2013), 859-867.
 5. N. Mudrinski, *Notes on Endomorphisms of Henson Graphs and Their Complements*, Ars Combinatoria **96** (2010), 173-183.
 6. E. Aichinger, N. Mudrinski, *Types of Polynomial Completeness of Expanded Groups*, Algebra Universalis **60** (2009), 309-343.
 7. E. Aichinger, N. Mudrinski, *Polynomial Clones of Mal'cev Algebras With Small Congruence Lattices*, Acta Mathematica Hungarica **126** (2010), 315-

333.

8. E. Aichinger, N. Mudrinski, *Some Applications of Higher Commutators in Mal'cev Algebras*, Algebra Universalis **63** (2010), 367-403.
9. I. Dolinka, N. Mudrinski, *On Subdirect Decomposition and Varieties of some Rings with Involution, II*, Proceedings of the Novi Sad Algebraic Conference 2003, special issue of Novi Sad J. Math. **34** (2) (2004), 109-117.

Contributed Talks

1. "Undecidability of Automorphism Groups of Countable Homogeneous Graphs" 67th Workshop on General Algebra / 19th Conference for Young Algebraists, 26.-28. March 2004. Potsdam, Germany (joint work with: I. Dolinka) <http://atlas-conferences.com/c/a/n/j/01.htm>
2. "Some Results on Endomorphism Monoids of Countable Homogeneous Graphs", Logic Colloquium, 25.-31. July 2004. Torino, Italy (joint work with: I. Dolinka) <http://lc2004.unito.it/>
3. "Modular Lattices With Adjacent Projective Meet Irreducible Elements" International Conference on Lattice Theory in honor of the 70th birthday of George Grätzer and E. Tamás Schmidt, 6.-9. June 2006. Budapest, Hungary (joint work with: E. Aichinger) <http://www.renyi.hu/conferences/2006/grasch.html>
4. "Higher commutators in Mal'cev algebras: properties and applications" AAA 74, 7.-10. June 2007. Tampere, Finland (joint work with: E. Aichinger) <http://math.tut.fi/aaa74/>
5. "Higher commutators - properties and applications" Algorithmic complexity and universal algebra, 16.-20. July 2007. Szeged, Hungary (joint work with: E. Aichinger) <http://www.math.u-szeged.hu/confer/algebra/>
6. "Two Problems for Nilpotent – Supernilpotent Algebras" AAA 76, 22.-25. May 2008. Linz, Austria (joint work with: E. Aichinger) <http://www.algebra.uni-linz.ac.at/AAA76/>
7. "Some Applications of Higher Commutators in Mal'cev Algebras" 12th Serbian Mathematical Congress, 28. August – 2. September 2008. Novi Sad, Serbia (joint work with: E. Aichinger) <http://sites.im.ns.ac.yu/events/2008/smkongres/>
8. "Higher commutators and multilinear expanded groups" 21st International Conference on Near-rings, Near-fields and related topics, 26. July – 1. August 2009. Vorau, Austria (joint work with: E. Aichinger) <http://nearrings09.asc.tuwien.ac.at/>
9. "On Determining the Higher Commutator Operation in Certain Classes of Expanded Groups" AAA 79, 12.-14. February 2010. Olomouc, Czech Republic (joint work with: E. Aichinger) http://tu-dresden.de/die_tu_dresden/fakultaeten/fakultaet_mathematik_und_naturwissenschaften/fachrichtung_mathematik/institute/algebra/aaaseries/prev/prog/prog79.pdf
10. "How many higher commutator operations can we define on the congruence lattice of a given Mal'cev algebra?", AAA 83, 15.-18. March 2012, Novi Sad, Serbia (joint work with: E. Aichinger) <http://sites.dmi.rs/events/2012/aaa83/>
11. "Congruence uniform Mal'cev algebras and expanded quasigroups", Workshop on algebra and its applications, 27.-29. April 2012, Sokka, Estonia <http://math.ut.ee/~vlaan/kaariku/2012/index.html>
12. "Are all finite congruence uniform Mal'cev algebras expanded groups?", AAA 84, 7.-10. June 2012, Dresden, Germany http://www.tu-dresden.de/die_tu_dresden/fakultaeten/fakultaet_mathematik_und_naturwissenschaften/fachrichtung_mathematik/institute/algebra/aaa84

13. "2-supernilpotent Mal'cev algebras", 50th Summer school on general algebra and ordered sets, 2.-7. September 2012, Novy Smokovec, Slovakia
<https://sites.google.com/site/ssalgebra2012/program>
 14. "A Gumm type result for ternary commutators in Mal'cev algebras", AAA 85, January 31. - February 2. , 2013, Luxembourg
<http://math.uni.lu/aaa85/aaa85.php>
 15. "A characterization of 2-supernilpotent Mal'cev algebras", The 4th Novi Sad Algebraic Conference, June 5-9, 2013, Novi Sad, Serbia
<http://www.dmi.uns.ac.rs/nsac2013/home.htm>
 16. "Supernilpotent Mal'cev algebras", AAA 87, February 7.-9., 2014, Linz, Austria
 17. "The clone of compatible functions of special expanded groups", AAA 88, June 20.-22. 2014, Warsaw, Poland
http://www.mini.pw.edu.pl/aaa88/AAA88_program_1006.pdf
- Invited Talks at Universities and Scientific Institutes**
1. "Higher commutators in Mal'cev algebras: properties and applications" Wiener Algebra Seminar (WAS), 24. August 2007. Vienna, Austria (joint work with: E. Aichinger) <http://www.dmg.tuwien.ac.at/fg1/seminar.html>
 2. "Do the functions that preserve the higher commutators of a Mal'cev algebra form a clone?" Wiener Algebra Seminar (WAS), 20. June 2008. Vienna, Austria (joint work with E. Aichinger)
<http://www.dmg.tuwien.ac.at/fg1/seminar.html>
 3. "Some conditions on Mal'cev algebras that force a polynomial group operation" Bolyai Institute seminar, 5. December 2012, Szeged, Hungary

Research Projects

1. Algebraic, Logical and Combinatorial Methods and Applications in Theoretical Computer Science (project no. 174018), 2011 - present, researcher
2. Algebraic Structures and Methods for Information Processing (project no. 144011 of the Ministry of Science, Republic of Serbia), 2006-2010, researcher
3. Algebraic and Combinatorial Methods in Information and Communication Technologies (project no. 1227 of the Ministry of Science, Republic of Serbia), 2001-2005, researcher
4. Ordered Structures and Applications, 2011, 2012, 2013 (project of the Provincial Secretariat of Science of the Autonomous Province of Vojvodina), researcher
5. Linear and General Algebra Tools in Computer Science, 2005, 2007 – 2010 (project of the Provincial Secretariat of Science of the Autonomous Province of Vojvodina), researcher

Organizing Conferences

NSAC (Novi Sad Algebraic Conference) in: 2003, 2005, 2009 and 2013 member of the organizing committee
AAA90 (Arbeitstagung Allgemeine Algebra/Workshop on General Algebra) 2015, co-chair of the organizing committee

Other Scientific Duties

Reviewer for the conference International Symposium for Multiple-Valued Logic, 2010 and 2011
Official Reviewer for Mathematical Reviews and Zentral Blatt