

# Rozália Madarász,

## University of Novi Sad, Serbia

### Research Interest

Universal algebra, Algebraic Logic, Theoretical Computer Science, Power Structures, Fuzzy structures, Mathematics and Music, Teaching of mathematics

### Theses

MADARAS, R. (1989) *Univerzalno algebarski prilozii algebarskoj logici*. (PhD Thesis), Prirodno-matematički fakultet u Novom Sadu

MADARAS, R. (1986) *Relacione algebre*. (Master Thesis), Prirodno-matematički fakultet u Novom Sadu

### Monographs

MADARÁSZ, R. and CRVENKOVIĆ, S. (1992) *Relacione Algebre*. Beograd: Matematički Institut SANU

### Publications in journals

BOŠNJAK, I. and MADARÁSZ, R. (2018)

Some globally determined classes of graphs, *Czechoslovak Mathematical Journal*, Vol. 68, No. 3, pp. 633-646.

BOŠNJAK, I. and MADARÁSZ, R. (2016)

Compatibility of fuzzy power relations, *Fuzzy Sets and Systems*, 298, pp. 44-55.

BOŠNJAK, I. and MADARÁSZ, R. (2015) On the composition of fuzzy power relations. *Fuzzy Sets and Systems*, 271, pp. 81-87.

BRADIĆ, M. and MADARÁSZ, R. (2014) Construction of finite L-groups. *Fuzzy Sets and Systems*, 247, pp. 151-164

BOŠNJAK, I. and MADARÁSZ, R. (2013) Retraction closure property. *Algebra Universalis*, 69 (3), pp. 279-285

BOŠNJAK, I. and MADARÁSZ, R. (2009) Remarks on the lattices of fuzzy subsets of a groupoid. *Fuzzy Sets and Systems*, 160 (20), pp. 3007-3012

BOŠNJAK, I., MADARÁSZ, R. and VOJVODIĆ, G. (2009) Algebras of fuzzy sets. <i>Fuzzy Sets and Systems</i> , 160 (20), pp. 2979-2988
BOŠNJAK, I. and MADARÁSZ, R. (2007) Some results on complex algebras of subalgebras. <i>Novi Sad Journal of Mathematics - NSJOM</i> , 37 (2), pp. 231-240
BOŠNJAK, I. and MADARÁSZ, R. (2003) On power structures. <i>Algebra and Discrete Mathematics</i> (2), pp. 14-35
BOŠNJAK, I. and MADARÁSZ, R. (2002) On some classes of good quotient relations. <i>Novi Sad Journal of Mathematics - NSJOM</i> , 32 (2), pp. 131-140
BOŠNJAK, I. and MADARÁSZ, R. (2001) Power algebras and generalized quotient algebras. <i>Algebra Universalis</i> , 45, pp. 179-189
MADARÁSZ, R. and TASIĆ, B. (2001) On Partially Ordered Monoid generated by Class Operators I, R, H, S, P. <i>Order</i> , 18, pp. 49-60
MADARÁSZ, R., MAŠULOVIĆ, D. and TASIĆ, B. (2001) Strong retracts of unary algebras. <i>Czechoslovak Mathematical Journal</i> , 51, pp. 205-212
BOŠNJAK, I. and MADARÁSZ, R. (1999) Good quotient relations and power algebras. <i>Novi Sad Journal of Mathematics - NSJOM</i> , 29 (2), pp. 71-84
PINUS, A. and MADARÁSZ, R. (1997) On generic multi-algebras. <i>Prirodno-matematički fakultet - Univerzitet u Novom Sadu, Zbornik radova Faculty of Science - University of Novi Sad Review of Research</i> , 27 (2), pp. 77-82
MADARÁSZ, R. (1995) On the partial algebras of weak congruences. <i>Prirodno-matematički fakultet - Univerzitet u Novom Sadu, Zbornik radova Faculty of Science - University of Novi Sad Review of Research</i> , 25 (1), pp. 89-97
MADARÁSZ, R. (1995) Remarks on power structures. <i>Algebra Universalis</i> , 34, pp. 179-184
CRVENKOVIĆ, S. and MADARÁSZ, R. (1994) On dynamic algebras. <i>Theoretical Computer Science</i> , 134, pp. 79-86
MADARÁSZ, R. (1994) Generalized factor algebras. <i>Matematichki Bilten. Bulletin Mathématique de la Société des Mathématiciens de la République de Macédoine</i> , 18, pp. 29-38
CRVENKOVIĆ, S. and MADARÁSZ, R. (1993) On Kleene algebras. <i>Theoretical Computer Science</i> , 108, pp. 17-24

<p>ČUPONA, G. and MADARÁSZ, R. (1993) Free poly-algebras. <i>Prirodno-matematički fakultet - Univerzitet u Novom Sadu, Zbornik radova Faculty of Science - University of Novi Sad Review of Research</i>, 23 (2), pp. 245-261</p>
<p>MADARÁSZ, R. (1992) Some results on axiomatizability. <i>Prirodno-matematički fakultet - Univerzitet u Novom Sadu, Zbornik radova Faculty of Science - University of Novi Sad Review of Research</i>, 22 (1), pp. 119-132</p>
<p>CRVENKOVIĆ, S. and MADARÁSZ, R. (1991) A non-axiomatizability result in algebraic logic. <i>Algebra Universalis</i>, 28, pp. 487-494</p>
<p>ČUPONA, G. and MADARÁSZ, R. (1991) On poly-algebras. <i>Prirodno-matematički fakultet - Univerzitet u Novom Sadu, Zbornik radova Faculty of Science - University of Novi Sad Review of Research</i>, 21 (2), pp. 141-156</p>
<p>CRVENKOVIĆ, S. and MADARÁSZ, R. (1989) On a problem of partial algebras. <i>Prirodno-matematički fakultet - Univerzitet u Novom Sadu, Zbornik radova Faculty of Science - University of Novi Sad Review of Research</i>, 17 (2), pp. 39-55</p>
<p>STOJAKOVIĆ, Z. and MADARAS, R. (1986) On tetrahedral quadruple systems. <i>Utilitas Mathematica</i>, 29, pp. 19-26</p>
<p>MADARAS, R. and MIHAJLOVIĆ, V. (1984) Some remarks on pn-sequences of algebras. <i>Prirodno-matematički fakultet - Univerzitet u Novom Sadu, Zbornik radova Faculty of Science - University of Novi Sad Review of Research</i>, 14 (2), pp. 223-232</p>

## Publications in Proceedings of conferences

<p>MADARÁSZ, R. and BOŠNJAK, I. (2014) On fuzzy power algebras and compatible fuzzy relations. In: <i>35th Linz Seminar on Fuzzy Set Theory, Linz, 2014</i>. Linz, pp. 89-90</p>
<p>MADARÁSZ, R. and BRADIĆ, M. (2013) L-groups and systems of inequalities in residuated lattices. In: <i>Arbeitstagung Allgemeine Algebra, Luxemburg, 2013</i>. Luxemburg</p>
<p>MADARÁSZ, R. and BOŠNJAK, I. (2012) Retraction Closure Property and Entropicity. In: <i>Arbeitstagung Allgemeine Algebra, Dresden, 2012</i>. Dresden</p>
<p>MADARÁSZ, R., BOŠNJAK, I. and BRADIĆ, M. (2012) Algebras of Fuzzy Sets. In: <i>Eleventh International Conference Fuzzy Sets Theory and Applications, Liptovsky Jan, 2012</i>. Liptovsky Jan</p>

MADARÁSZ, R. and BOŠNJAK, I. (2011) Vagueness, fuzzy logics and mathematics. In: <i>15th General Meeting of European Women in Mathematics, Barcelona, 2011</i> . Barcelona
CRVENKOVIĆ, S., DOLINKA, I. and MADARÁSZ, R. (2002) Some results of the Novi Sad school inspired by Andreka and Nemeti. In: <i>International conference "Logic, Algebra, Relativity" honoring the 60th birthday of Istvan Nemeti, 2002</i>
MADARÁSZ, R. and BOŠNJAK, I. (2002) On Power Structures. In: <i>International Conference "Universal Algebra and Lattice Theory", 2002</i>
BOŠNJAK, I. and MADARÁSZ, R. (1999) Power algebras and ordered sets of good quotient relations. In: <i>Conference on Ordered Sets, Varsava, Poljska, 1999</i>
TASIĆ, B. and MADARÁSZ, R. (1999) On some semigroups of operators. In: <i>Conference on Algebra honoring the 70th birthday of Ervin Fried, 1999</i>
BOŠNJAK, I. and MADARÁSZ, R. (1998) Some new results on generalized quotient algebras. In: <i>VIII International Conference "Algebra &amp; Logic", 1998</i>
MADARÁSZ, R. and BOŠNJAK, I. (1998) Some new results on power algebras. In: <i>Conference on Lattices, Ordered Sets and Universal Algebra, Szeged, 1998</i> . Szeged
MADARÁSZ, R., MAŠULOVIĆ, D. and TASIĆ, B. (1998) On retracts and inflations of universal algebras. In: <i>VIII International Conference "Algebra &amp; Logic", 1998</i>
TASIĆ, B. and MADARÁSZ, R. (1998) On Operator of Retracts. In: <i>Summer School on General Algebra and Ordered Sets, Milonov, 1998</i> . Milonov
TASIĆ, B. and MADARÁSZ, R. (1998) On strong retracts of algebras. In: <i>XIII Conference on Applied Mathematics - PRIM '98 : abstracts, Igalo, 1998</i> . Novi Sad: Institut za matematiku
VAŠ, L. and MADARÁSZ, R. (1995) A note about multi-algebras, power algebras and identities. In: <i>Zbornik radova IX Conference on Applied Math, 1995</i> . Novi Sad, pp. 147-153
DELIĆ, D. and MADARAS, R. (1994) O jednom neodlučivom problemu. In: <i>Sažeci : IX Seminar primenjene matematike - PRIM '94, Budva, 1994</i> . Novi Sad: Institut za matematiku
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MADARÁSZ, R. and CRVENKOVIĆ, S. (1991) On Kleene algebras. In: <i>Conference on Universal Algebra, Kunčice, 1991</i> . Kunčice
CRVENKOVIĆ, S. and MADARÁSZ, R. (1990) On equational base for Kleene relation algebras. In: <i>Proceedings of International Conference on Words, Languages, Combinatorics, Kyoto, Japan, 1990</i> . Kyoto, pp. 64-72
MADARAS, R. (1989) Univerzalno-algebarski prilozi algebarskoj logici. In: <i>Poliadične strukture i primene, Skopje, 1989</i> . Skopje
MADARÁSZ, R. and CRVENKOVIĆ, S. (1988) Word Problems. In: <i>Conference on Universal Algebra, Karlovy Vary, 1988</i> . Karlovy Vary
CRVENKOVIĆ, S. and MADARÁSZ, R. (1987) On semigroup-relation algebras. In: <i>Proceedings of Algebra and Logic Conference Sarajevo, Sarajevo, 1987</i> . Sarajevo, pp. 17-28
CRVENKOVIĆ, S. and MADARÁSZ, R. (1986) On the word problem. In: <i>Summer School on General Algebra and Ordered Sets, Solenice, 1986</i> . Solenice
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MADARÁSZ, R. and CRVENKOVIĆ, S. (1986) On relation algebras. In: <i>Summer School on General Algebra and Ordered Sets, Solenice, 1986</i> . Solenice
MADARÁSZ, R. and CRVENKOVIĆ, S. (1986) On some decidability questions. In: <i>Arbeitstagung Allgemeine Algebra, Darmstadt, 1986</i> . Darmstadt

## Publications - Teaching of mathematics

1.. Korać N., R. Sz. Madarasz, *Udžbenici matematike za prvi razred*, u monografiji "Kvalitet udžbenika za mlađi školski uzrast", Institut za psihologiju Filozofskog fakulteta u Beogradu, Beograd, 2007, 133-149.

2. Madarasz, R., Z. Lužanin, *Udžbenici za treći razred osnovne škole - iz ugla matematike*, u monografiji "Kvalitet udžbenika za mlađi školski uzrast", Institut za psihologiju Filozofskog fakulteta u Beogradu, Beograd, 2007, 171-187.

3. R. Madarasz, *Matematika i muzika*, Tangenta, 2010, 61, No 1, 1-10.

4.. R. Madarasz, *Problemi nastave matematike i „kula od slonovače“*, *Nastava matematike*, 2011, LVI, No 3-4, 12-17.