

Enabling the International Academic Community to Gain Insight into the Scientific Activities of Banja Luka University Mathematicians During the Period 2007-2016.

Daniel A. Romano

Abstract. Editorial board of MAT-KOL started in 2007 enable closer exploring the academic community in BiH, and in our neighboring area, with scientific activities of mathematicians at the University of Banja Luka. In this article we sublimated expose some of the parameters of these activities during period 2007-2016. This report should be a more detailed insight into the quality of periodic publications edited and published by the association of these mathematicians. In addition, the report included the list of published texts of these mathematicians in the domains: mathematics, mathematics education and the history of mathematics and mathematical education

Although the Association of mathematicians and researchers in mathematics education at University of Banja Luka is a small community, it is making significant efforts to its contribution to the development of mathematics and mathematical education upon us disseminate ideas of this discipline is observed.

Math and MathEdu journals

Scientific Society of Mathematicians Banja Luka directly or through the International Mathematical Virtual Institute edits and publishes the following magazines:

MATHEMATICS

Journal of the International Mathematical Virtual Institute,

ISSN (p) 2303-4866, ISSN (o) 2303-4947,

<http://www.imvibl.org/JOURNALS/JOURNAL>

<http://doisrpska.nub.rs/index.php/JIMVI>



**Publisher: International Mathematical
Virtual Institute
Scientific Society of Mathematicians
Banja Luka**

Language: English
Founded 2011

Journal of the International Mathematical Virtual Institute is edited and published by International Mathematical Virtual Institute. The *Journal* is a continuation of the earlier publication Bulletin of the Society of Mathematicians Banja Luka, ISSN 0354-5792 (p), 1986-521X (o) which was founded in 1994 and whose last issue Vol. 17(2010). The *Journal* publishes original longer papers (15 or more pages) in all fields of mathematics that contained new, substantial and significant results, with complete proofs and of interest for a large number of mathematicians.

	1/2011	2/2012	3/2013	4/2014	5/2015	6/2016
share (in%) of legitimate articles	100	100	100	100	100	100
share (in%) articles of foreign authors	100	100	100	80.0	100	100
share (in%) articles on the world languages	100	100	100	100	100	100
the average number of references in the articles	10.67	21	32.67	37.4	22.25	32.83
the proportion (in%) works with at least one reference	100	100	100	100	100	100
share (in%) of journals' references	80.0	65.08	87.76	81.82	83.15	86.80
share (in%) references in foreign languages	100	100	100	100	100	100
the total number of references / volume	32	63	196	187	89	197
the number of citations the same journal	0	0	2	2	0	0
number of articles / volume	3	3	6	5	4	6
total numbers of articles (2011-2016)	3	6	12	17	21	27
Number of authors / volume per year	5	5	11	9	8	11
number of issues per year	1	1	1	1	1	1

Bulletin of the International Mathematical Virtual Institute,
 ISSN 2303-4874 (p), ISSN (o) 2303-4955,
<http://www.imvibl.org / JOURNALS / BULLETIN>
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Publisher: **International Mathematical Virtual Institute**
Scientific Society of Mathematicians
Banja Luka

Language: English
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Bulletin of the International Mathematical Virtual Institute is edited and published by International Mathematical Virtual Institute. The *Bulletin* is a continuation of the earlier publication *Bulletin of the Society of Mathematicians Banja Luka*, which was founded in 1994 and whose last issue Vol. 17(2010). The *Bulletin* publishes original shorter papers (less than 15 pages) in all fields of mathematics that contained new, substantial and significant results, with complete proofs and of interest for a large number of mathematicians

	1/2011	2/2012	3/2013	4/2014	5/2015	6/2016
	Bulletin	Bulletin	Bulletin	Bulletin	Bulletin	Bulletin
share (in%) of legitimate articles	100	100	100	100	100	100
share (in%) articles of foreign authors	87.5	92.73	90.48	78.95	84.00	96.3
share (in%) articles on the world languages	100	100	100	100	100	100
the average number of references in the articles	12.25	9.49	12	17.21	12.28	15.30
the proportion (in%) works with at least one reference	100	100	100	100	100	100
share (in%) of journals' references	82.65	80.63	69.05	82.26	68.73	83.54
share (in%) references in foreign languages	100	100	100	100	100	100
the total number of references / volume	98	351	252	327	307	413
the number of citations the same journal	0	4	2	3	6	9
number of articles / volume	8	27	21	19	25	27
total numbers of articles (2011-2016)	8	35	56	75	100	127
number of authors / volume per year	12	55	42	42	51	70
number of issues per year	1	2	2	2	2	2

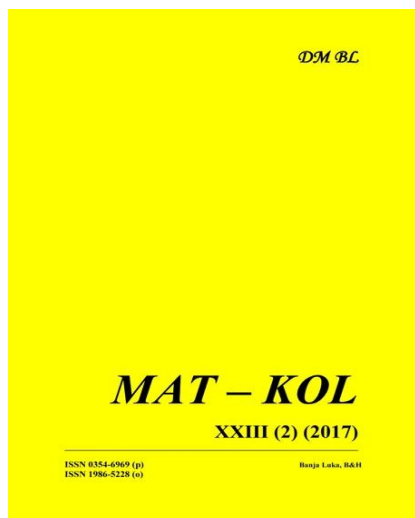
Mathematical professional journal

MAT-KOL (Banja Luka)

ISSN (p) 0354-6969, ISSN (o) 1986-5228,

www.imvibl.org/dmbl/dmbl.htm

<http://doisrpska.nub.rs/index.php/MK>



Publisher: Scientific Society of Mathematician Banja Luka

Language:
Serbian/Croatian/Bosnian/English
Founded 1995

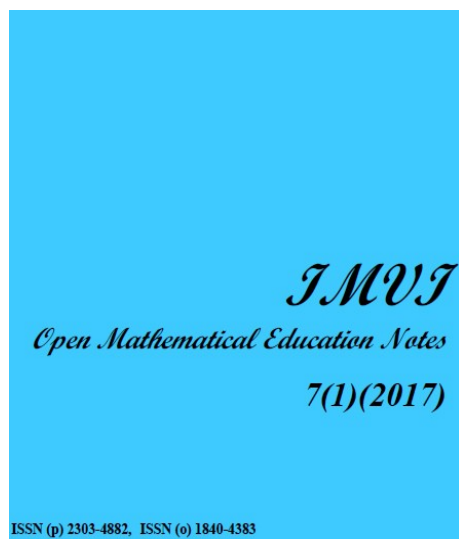
	2011	2012	2013	2014	2015	2016
share (in%) of legitimate articles	100.00	100.00	100.00	100.00	100.00	100.00
share (in%) articles of foreign authors	26.32	54.55	86.67	40.74	65.22	55.0
share (in%) articles on the world languages	0	30.77	5.00	0	8.70	10.0
the average number of references in the articles	5.0	9.38	3.95	10.59	8.70	6.5
the proportion (in%) works with at least one reference	91.67	100.00	85.00	100.00	95.65	85.0
share (in%) of journals' references	13.33	68.03	45.57	48.89	61.00	43.85
share (in%) references in foreign languages	45.0	77.78	36.71	72.78	66.50	56.92
the number of citations the same journal	3	5	9	9	8	7
number of articles / volume	12	13	20	17	23	20
total numbers of articles (2011-2016)	12	25	45	62	85	105
Number of authors / volume per year	19	22	15	26	36	26
number of issues per year	2	2	3	3	4	3

RESEARCH IN MATHEMATICS EDUCATION

Research in Mathematics Education scientific journal

IMVI Open Mathematical Education Notes

ISSN (p) 2303-4882, ISSN (o) 1840-4383

<http://www.imvibl.org/JOURNALS/IMVI/OMEN><https://www.potsdam.edu/academics/SOEPS/education/OMEN/Published-Issues><http://doisrpska.nub.rs/index.php/OMEN>

Publisher: *International Mathematical Virtual Institute*
Scientific Society of Mathematicians
Banja Luka

School of Education and Professional Studies,
State University of New York, Potsdam,
USA

Language: English
 Founded 2011

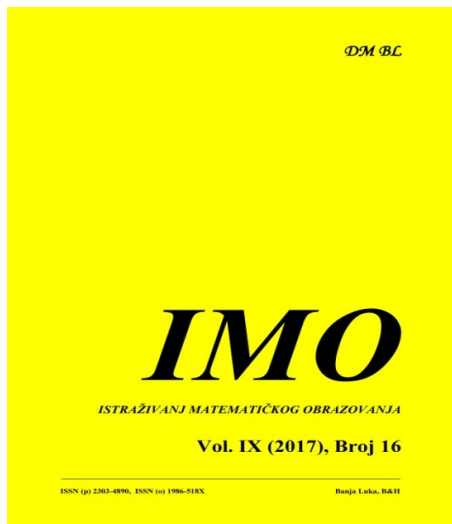
The Scientific Society of Mathematicians of Banja Luka established *IMVI Open Mathematical Education Notes* - an electronic journal - in order to advance mathematics education research activities by the International Mathematical Virtual Institute. The main goal of the *Notes* is to foster interaction among mathematicians and mathematics educators in the Balkans, elsewhere in Europe, and worldwide through the publication of high quality articles emphasizing mathematics education as a field of disciplined inquiry. The journal seeks to provide an online forum for professionals interested in reflecting on the wide range of experiences in the teaching of mathematics at all grade levels, from elementary to graduate. Contributions are welcomed from authors with teaching ideas that advance knowledge and practice in the field of mathematics education.

	2011	2012	2013	2014	2015	2016
share (in%) of legitimate articles	100.00	100.00	100.00	100.00	100.00	100.00
number of articles / volume	2	3	3	3	9	6
total numbers of articles (2011-2016)	2	5	8	11	20	26
Number of authors / volume per year	5	5	5	5	17	14
number of issues per year	1	1	1	1	2	2

IMO – ISTRAŽIVANJE MATEMATIČKOG OBRAZOVANJA**(Research of Mathematics Education),**

ISSN (p) 2303-4890, ISSN (o) 1986-518X

<http://www.imvibl.org/dmbl/meso/imo/imo2.htm><http://doisrpska.nub.rs/index.php/IMO>



Publisher: **Scientific Society of Mathematician Banja Luka**
 Language: Serbian/ Croatian/ Bosnian/ English
 Founded 2009

"IMO - mathematics education research", ISSN (p) 2303-4890, ISSN 1986-518X, humanistic –mathematical journal, edited and published by the Scientific Society of Mathematicians Banja Luka, acceptance for publication of texts relating to:

- the development of theory in Mathematics Education;
- application theoretical models in mathematical teaching practice;
- psychology of Mathematics Education,
- philosophy and sociology of Mathematical Education,
- research teaching practice,
- research mathematics curriculum
- published mathematical books (display and / or a critical review)

all levels of education: pre-school education, lower level and upper primary schools, secondary level and academic education.

	V (2013) Broj 8	V (2013) Broj 9	VI (2014) Broj 10	VI (2014) Broj 11	VII (2015) Broj 12	VII (2015) Broj 13	VIII (2016) Broj 14	VIII (2016) Broj 15
share (in%) of legitimate articles	100	100	83.33	100	100	100	100	100
share (in%) articles of foreign authors	25.0	0	0	16.67	58.33	54.55	80.0	20.0
share (in%) articles on the world languages	0	0	0	0	40.0	0	0	40.0
Number of references in the issue	169	188	65	102	61	105	60	50
the average number of references in the articles	28.16	31.33	10.83	20.4	12.2	21.0	20	10.0
the proportion (in%) works with at least one reference	100	100	83.33	100	80.0	100	100	80.0
share (in%) of journals' references	46.75	26.06	40.00	46.08	57.38	14.29	15.0	46.0

share (in%) references in foreign languages	89.35	70.74	36.92	87.25	91.8	24.76	31.67	88.0
the number of citations the same journal	8	7	12	4	3	4	0	0
number of articles / issue	6	5	6	5	5	5	3	5
total numbers of articles (2009-2016)	34	39	45	50	55	60	63	68
number of authors per issue	7	10	6	7	12	13	5	9

Report on mathematicians production

Statistics survey of published articles in the period 2007-2016

Num.	Dom.	07	08	09	10	11	12	13	14	15	16	Σ
MAT												
1	Inter. Publ.	14	10	10	14	13	12	12	10	16	11	122
2	Inter. Conf.	-	-	1	1	1	-	-	-	-	1	4
3	Dom. Publ.	5	3	1	1	4	3	2	3	2	2	26
4	Dom. Conf.	2	-	-	-	2	2	1	3	4	-	14
		21	13	12	16	20	17	15	16	22	14	166
MAT. EDU												
5	Inter. Publ.		1	1	-	1	1	1	2	3	3	13
6	Inter. Conf.		-	-	-	-	-	-	-	-	-	-
7	Dom. Publ.	1	4	8	8	4	8	6	8	9	4	60
8	Dom. Conf.	1	-	-	-	1	1	3	-	1	-	7
		2	5	9	8	6	10	10	10	13	7	80
HYST.												
9	Inter. Publ.	-	-	-	-		-	-		-	-	
10	Dom. Publ.	-	2	1	-	3	-	3	1	2	4	16
		0	2	1	0	3	0	3	1	2	4	16
Σ		25	20	22	22	29	27	28	27	37	25	262

An unfinished list of published articles in the period 2007-2016

2016

MATHEMATICS

In international publication

- [14] **Duško Bogdanić**: *Existence of Gradings on Associative Algebras*, Communications in Algebra, ISSN 0092-7872 (p), ISSN 1532-4125 (o), **44**(7)(2016), 3069-3076
- [13] **Milan Janjić**: *Binomial Coefficients and Enumeration of Restricted Words*, Journal of Integer Sequences, ISSN (o) 1530-7638, Vol. **19** (7) (2016), Article **16.7.3**
- [12] **Duško Jojić**: *Some remarks about acyclic and tridiagonal Birkhoff polytopes*, Linear Algebra and its Applications, ISSN: 0024-3795, **495**(2016), 108–121
- [11] Vladimir Grujić, Tanja Stojadinović and **Duško Jojić**: *Generalized Dehn–Sommerville relations for hypergraphs*, European Journal of Mathematics, ISSN: 2199-675X (p) 2199-6768 (o) , **2**(2)(2016), 459-473
- [10] **Snježana Maksimović**, Svetlana Mincheva-Kamińska, Stevan Pilipović, and Petar Sokolovski: *A Sequential Approach to Ultradistribution Spaces*; Publications de L’Institut Mathematiques, ISSN: 0350-1302; **100**(114) (2016), 17–48
- [9] **Miroslav S. Pranić**, Lothar Reichel, Giuseppe Rodriguez, Zhengsheng Wang and Xuebo Yu: *A rational Arnoldi process with applications*. Numerical Linear Algebra with Applications, ISSN: 1099-1506, **23**(6) (2016), 1007-1022
- [8] Siniša Crvenković, Melanija Mitrović and **Daniel A. Romano**: *Basic Notions of (Constructive) Semigroups with Apartness*, Semigroup Forum, ISSN (p): 0037-1912, ISSN (o): 1432-2137 , **92**(3)(2016), 659-674
- [7] **Daniel A. Romano**: *An Introduction to Implicative Semigroups with Apartness*, Sarajevo J. Math., ISSN 1840-0655 (p), ISSN 2233-1964 (o), **12**(25)(2)(2016), 155-165
- [6] **Daniel A. Romano**: *A New Analysis of Regular Coequality Relation*; Bull. Inter. Math. Virtual Inst., ISSN (p) 2303-4874, ISSN (o) 2303-4955, **6**(2)(2016), 259-267
- [5] **Daniel A. Romano**: *Finitely bi-conjugative relations*, Romanian J. Math. Comput. Sci., ISSN 2247 – 689X, ISSN – L, 2247- 689X, Vol. **6**(2)(2016), 134-138
- [4] **Бильана Војводич** и Миленко Пикула: Краевая задача дифференциального оператора типа Штурм–Лиувилля при n постоянных запаздываний и асимптотика собственных значений, Mathematica Montisnigri, ISSN 0354-2238, Vol. **35** (2016), 5-21.

In proceedings of international conferences

- [3] Melanija Mitrović, Siniša Crvenković and **Daniel A. Romano**, *Semigroups with apartness: constructive versions of some classical theorems*; The 46th Annual Iranian Mathematics Conference 25-28 August 2015 (pp. 64-67), Yazd University, Yazd, Iran 2016.

In domestic publication

- [2] **Duško Jojić** i Jovan Mikić: *Nekoliko kombinatornih dokaza*, MAT-KOL (Banja Luka), ISSN 0354-6969 (p), ISSN 1986-5228 (o), **XXII** (2) (2016), 141-147.
- [1] **Marko Đukanović** i **Dejan Radić**: *Primjena usmjerenih hipergrafova za predstavljanje funkcionalnih zavisnosti u relacionim modelima*; MAT-KOЛ (Бања Лука), ISSN 0354-6969 (p), ISSN 1986-5228 (o), **XXII** (1) (2016), 61-69

RESEARCH IN MATHEMATICS EDUCATION

In international publications

- [7] **Snježana Maksimović and Ivan–Vanja Boroja:** *The Importance of Preparation Classes for Taking the University Entrance Examination in Mathematics*; IMVI Open Mathematical Education Notes, ISSN (p) 2303-4882, ISSN (o) 1840-4383 (o), **6(1)** (2016), 5-17
- [6] Susanne Strachota, **Daniel A. Romano** and Sergei Abramovich: *A Comparative Approach to Analyzing University Entrance Mathematics Exams*. IMVI Open Mathematical Education Notes, ISSN (p) 2303-4882, ISSN (o) 1840-4383 (o), **6(2)**(2016), 107-113
- [5] **Daniel A. Romano** and Susanne Strachota: *College students' understanding of logical implication*, IMVI Open Mathematical Education Notes, ISSN (p) 2303-4882, ISSN (o) 1840-4383 (o), **6(2)**(2016), 57 – 64.

In domestic publications

- [4] Мирела Мрђа и **Даниел А. Романо:** *Један модел задатака за процјену студентске успјешности на курса 'Методика наставе математике I' учитељског програма;* Учење и настава, ISSN 2466-2801, **II** (3)(2016), 527–546.
- [3] Данијела Митровић и **Даниел А. Романо:** *Када квадрат јесте а када није правоугаоник?* МАТ-КОЛ, ISSN 0354-6969, ISSN 1986-5228, **XXII** (3)(2016), 169-175.
- [2] **Даниел А. Романо:** *Процјена успјешности на пријемном испиту.* ИМО – Истраживање математичког образовања, ISSN (p) 2303-4890, ISSN 1986–518X , Vol. **VIII** (2016), Број 15, 9-16.
- [1] **Даниел А. Романо:** *Процјена квалитета модела математичких задатака при тестирању кандидата (одржано 29.06.2015.) за упис на Машински факултет Универзитета у Бањој Луци;* МАТ-КОЛ (Бања Лука), ISSN 0354-6969 (p), ISSN 1986-5228 (o), **XXII** (1) (2016), 27-44

HYSTORY OF MATHEMATICS AND MATHEMATICS EDUCATION

In domestic publications

- [4] Marija Milošević i **Daniel A. Romano:** *Dragoljub Milošević, 70 godina života i 42 godine rada,* MAT-KOL, ISSN 0354-6969, ISSN 1986-5228, **XXII** (3)(2016), 191-216.
- [3] **Даниел А. Романо:** *Да ли је реализаторима наставе математике у нас потребан часопис о истраживању математичког образовања?;* ИМО – Истраживање математичког образовања, ISSN (p) 2303-4890, ISSN (o) 1986–518X , Vol. **VIII** (2016), Број 15, 27-32.
- [2] **Daniel A. Romano:** *Unfinished List of Published Articles by Authors at Banja Luka University in Mathematics and in Mathematics Education During 2015;* MAT-KOL, ISSN 0354-6969 (p), ISSN 1986-5228 (o), **XXII** (1)(2016), 71-74
- [1] **Daniel A. Romano:** *Annual Report on Published Articles in Mathematics Education in the Republic of Srpska During 2015 ;* БМЧ – Бијељински методички часопис, ISSN 2303-5366, Вол. **3** (2016), Број 3, 1-7

2015

MATHEMATICS

In international publication

- [22] **Duško Bogdanić**, *Grading Wild Blocks via Stable Equivalences*, Bulletin of the International Mathematical Virtual Institute, ISSN (p) 2303-4874, ISSN (o) 2303-4955, **5(2)** (2015), 125-132
- [21] **Duško Bogdanić**, *Gradings on semi-dihedral blocks with two simple modules*, Bulletin of the International Mathematical Virtual Institute, ISSN (p) 2303-4874, ISSN (o) 2303-4955, **5(2)** (2015), 133-140
- [20] **Duško Bogdanić**, *Gradings on semi-dihedral blocks with three simple modules*, Bulletin of the International Mathematical Virtual Institute, ISSN (p) 2303-4874, ISSN (o) 2303-4955, **5(2)** (2015), 141-152
- [19] **Milan Janjić**, *On Linear Recurrence Equations Arising from Compositions of Positive Integers*, Journal of Integer Sequences, ISSN (o) 1530-7638, Vol. **18** (4) (2015), Article 15.4.7
- [18] **Vladimir Jovanović**, *A note on the proof of Bertrand's theorem*, Theoretical and applied mechanics, ISSN: 1450-5584, **42(1)** (2015), 27-33
- [17] Božidar Jovanović and **Vladimir Jovanović**, *Geodesic and billiard flows on quadrics in pseudo-Euclidean spaces: L-A pairs and Chasles theorem*. International Mathematics Research Notes, ISSN (o) 1687-0247; ISSN (p) 1073-7928, **2015** (15), 6618-6638
- [16] Božidar Jovanović and **Vladimir Jovanović**, *Contact flows and integrable systems*; Journal of Geometry and Physics, ISSN: 0393-0440, **87**(2015), 217-232
- [15] **Snježana Maksimović**, Stevan Pilipović, Petar Sokoloski and Jasson Vindas, *Wave Fronts Via Fourier Series Coefficients*; Publications de l'Institut Mathématique, **97**(111)(2015), 1-10
- [14] Diana Dolićanin-Đekić, **Snježana Maksimović** and Petar Sokoloski: *Wave Fronts of Ultradistributions Via Fourier Series Coefficients*; Matematički bilten, ISSN 0351-336X (p), ISSN 1857-9914 (o), Vol. **39** (LXV) No.2 (2015), 53–59.
- [13] **Miroslav S. Pranić** and Lothar Reichel: *Generalized anti-Gauss quadrature rules*. J. Computational Applied Mathematics, ISSN: 0377-0427, **284**(2015), 235-243
- [12] **Miroslav S. Pranić** and Lothar Reichel: *Generalized anti-Gauss quadrature rules*. Journal of Computational Applied Mathematics, ISSN: 0377-0427, **284**(2015), 235-243
- [11] **Daniel A. Romano**: *Quasi-normal relations – a new class of relations*, Kyungpook Mathematical Journal, ISSN (p) 1225-6951, ISSN (o): 0454-8124, **55(3)** (2015), 541-548
- [10] **Daniel A. Romano**: *Finitely dual quasi-regular relations*; Bulletin of the International Mathematical Virtual Institute, ISSN (p) 2303-4874, ISSN (o) 2303-4955, **5(2)** (2015), 165-169
- [9] **Milovan Vinčić** and **Daniel A. Romano**: *Finitely bi-normal relations*; Gulf Journal of Mathematics, ISSN 2309-4966, **3(3)** (2015), 101-105.
- [8] Milenko Pikula, **Biljana Vojvodić** and Nataša Pavlović: *Construction of the Solution of the Boundary Value Problem with One Delay and Two Potentials Asymptotic of Eigenvalues*, Mathematica Montisnigri, ISSN 0354-2238, Vol. **32** (2015), 119-139.

- [7] Natasa Pavlović, Milenko Pikula and **Biljana Vojvodić**: *First Regularized Trace of the Limit Assignment of Sturm-Liouville Type with Two Constant Delays*, Filomat, ISSN 0354-5180 (p), ISSN 2406-0933 (o), **29**(1)(2015), 51-62.

In domestic publication

- [6] **Slavko Brdar, Marko Đukanović i Ilija Lalović**: *Kombinatorne igre sa završnicom tipa (poraz, pobjeda) na konačnim or-grafovima*, MAT-KOJ (Baňa Luka), ISSN 0354-6969 (p), ISSN 1986-5228 (o), **XXI** (3) (2015), 179-203
- [5] **Ilija Lalović i Danijel Vidović**: *Matematičke metode 3D grafike, I*, MAT-KOJ (Baňa Luka), ISSN 0354-6969 (p), ISSN 1986-5228 (o), **XXI** (1) (2015), 17-31

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- [4] Nedžad Đukić and **Ilija Lalović**, *Fuzzy višeznačne zavisnosti i formule u fuzzy modelu relacionih baza podataka*. In: M.Pikula (Ed.) Proceedings of the 4th Mathematical Conference of the Republic of Srpska (Vol. II, pp. 75-99), Univerzitet u Istočnom Sarajevu, Fakultet za proizvodnju i menadžment Trebinje. 2015. ISBN 978-99976-600-4-6
- [3] **Zoran D. Mitrović**, *The Remarks on Best and Coupled Best Approximations*. In: M.Pikula (Ed.) Proceedings of the 4th Mathematical Conference of the Republic of Srpska (Vol. I, pp. 17-22), Univerzitet u Istočnom Sarajevu, Fakultet za proizvodnju i menadžment Trebinje. 2015. ISBN 978-99976-600-3-9
- [2] Milenko Pikula, **Biljana Vojvodić** and Nataša Pavlović, *The boundary value problem with one delay and two potentials-construction of the solution and asymptotic of eigenvalues*. In: M.Pikula (Ed.) Proceedings of the 4th Mathematical Conference of the Republic of Srpska (Vol. I, pp. 37-58), Univerzitet u Istočnom Sarajevu, Fakultet za proizvodnju i menadžment Trebinje. 2015. ISBN 978-99976-600-3-9
- [1] **Biljana Vojvodić**, Milenko Pikula, Vladimir Vladičić, *Determining of the solution of the boundary value problem for the operator Sturm-Liouville type with two consonant delays*; У: Миодраг Матељевић (Ур.) Зборник радова –V Симпозијум „Математика и примене” 17 – 18, Октобар 2014. (стр. 141- 151), Математички факултет, Београд, 2015, ISBN 978-86-7589-104-8

RESEARCH IN MATHEMATICS EDUCATION

In international publications

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