

Жирију за доделу награде за достигнућа у математичким наукама 13. Српског математичког конгреса

Предмет: Предлог за доделу награде за достигнућа у математичким наукама.

Поштовани,

на предлог Департмана за математику, Изборно већа Природно математичког факултета, Универзитета у Нишу, на седници одржаној 22.01.2014. године, једногласно је подржало кандидатуру др Драгане Цветковић Илић за награду за достигнућа у математичким наукама 13. Српског математичког конгреса. У прилогу је њена биографија са списком научних радова и осталим значајним резултатима.

Dr Dragana Cvetković - Ilić

1. Kratka biografija

Dragana Cvetković-Ilić je rođena 19. novembra 1977. godine u Vladičinom Hanu, gde je završila osnovnu školu. Već tada je iskazivala nadarenost za matematiku i fiziku i bila učesnik republičkih takmičenja. Gimnaziju, matematički smer je završila po ubrzanom programu za tri godine.

Četvorogodišnje studije matematike na Filozofskom fakultetu u Nišu završila je za tri godine sa prosečnom ocenom 9,89. Dobitnik je nagrade Univerziteta u Nišu za najboljeg studenta Filozofskog fakulteta i najboljeg diplomiranog studenta 1999. godine.

Magistarske studije matematike je upisala 1999. godine na Filozofskom fakultetu u Nišu, na smeru za Funkcionalnu analizu. Magistarsku tezu "Otvori na Banachovim prostorima", pod mentorstvom prof. dr Vladimira Rakočevića je odbranila 2001. godine. Doktorsku disertaciju "Šurov komplement i uopštenja", pod mentorstvom prof. dr Dragana Đorđevića, odbranila je na Univerzitetu u Nišu, jula 2004. godine.

Od 1999. godine radi na Filozofskom fakultetu u Nišu, a 2010. godine je izabrana za redovnog profesora Univerziteta u Nišu, kao najmlađi redovni profesor sa manje od 33 godina starosti.

Imala je više istraživačkih poseta, od kojih su značajnije sledeće: poseta Istraživačkom centru Centro de Investigacionen Matematicas, Guanajuato, Meksiko, Centru za matematička istraživanja (CRM) u Barseloni, Shanghai Normal University, Kina, kao i boravak na posledoktorskom usavršavanju koje je stipendiralo Ministarstvo za nauku Republike Srbije u International Centre for Theoretical Physics, Trieste, Italija, (2005 i 2009 godine u ukupnom trajanju od 6 meseci). Tokom boravka u Kini, 2012 godine, održala je predavanja po pozivu na sledećim univerzitetima:

- Southeast University of Nanjing, Nanjing,
- ChinaShanghai Institute of Tehnology, Shanghai,
- China Shanghai Normal University, Shanghai,

kao i seriju predavanja studentima doktorskih studija na China Shanghai Normal University.

Najviše se bavi istraživanjima u oblasti funkcionalne analize, specijalno teorije uopštenih inverza, linearne algebra, teorije operatora a u novije vreme i spektralnom

teorijom ograničenih linearnih operatora.

Tokom svoje istraživačke karijere, Dragana je objavila 59 naučnih radova u međunarodnim časopisima kategorija M21, M22 i M23 (SCI i SCIE), kao što su Mathematics of Computation, Journal of Mathematical Analysis and Applications, Studia Mathematica, Linear Algebra and its Applications, Electronic Journal of Linear Algebra, Proceeding of the American Mathematical Society, Mathematische Nachrichten i drugim. Kompletan spisak radova nalazi se u sekciji 2.

Član je uređivačkog odbora sledećih časopisa:

- Scientific World Journal-Mathematical Analysis (IF 1.730),
- FILOMAT (IF 0.714),
- Facta Universitatis, Series Mathematica
- Functional Analysis, Approximation and Computation

Veoma je aktivna kao recenzent za preko 30 vodećih međunarodnih časopisa.

Dobitnik je nagrade “**For women in Sciences**”, za 2010 godinu, koju dodeljuju Loreal-Unesco.

2. Projekti i mentorstva

Učestvovala je u sledećim projektima koje je finansiralo Ministarstvo za nauku, Republike Srbije:

- *Operatorske jednačine, aproksimacije i primene*, 2002-2006, (broj 1232)
- *Teorija operatora, stohastička analiza i primene*, 2006-2010, (broj 144003)
- *Funkcionalna analiza, stohastička analiza i primene*, 2011-, (broj 174007)

Učestvovala je u projektu “Očuvanja i razne operatorske i matrične jednačine sa primenama“ bilateralne saradnje sa Republikom Slovenijom.

Trenutno je sa profesorom Yimin Weiom rukovodilac projekata bilateralne naučne saradnje “Generalized inverses and applications “ sa NR Kinom.

Dragana je bila mentor jedne doktorske disertacije, dok su dve disertacije čije su teme odobrene, u procesu izrade. Veoma je aktivna kao predavač na doktorskim studijama, Prirodno-matematičkog fakulteta, Univerziteta u Nišu.

3. Publikacije (kategorije M21-M23)

1. **D.S. Cvetković-Ilić**, D. Đorđević, V. Rakočević, *Schur complements in C^* -algebra*, *Mathematische Nachrichten*, 278 (7-8) (2005), 808-814.
2. **D.S. Cvetković-Ilić**, *Generalized inverses and a block-rank equation*, *Publicationes Mathematicae Debrecen*, 66 (3-4) (2005), 417-426.
3. **D.S. Cvetković-Ilić**, *A note on the problem of N. Thome and Y. Wei*, *Applied Mathematics and Computation*, 166 (1)(2005), 233-236.
4. **D.S. Cvetković-Ilić**, *The reflexive solutions of the matrix equation $AXB=C$* , *Comp. Math. Appl.*, 51 (2006), 897-902.
5. **D.S. Cvetković-Ilić**, D. Đorđević and Y. Wei, *Additive results for the generalized Drazin inverse in a Banach algebra*, *Linear Algebra Appl.*, 418 (2006), 53-61.
6. **D.S. Cvetković-Ilić**, R. Harte, *On the algebraic closure in rings*, *Proc. Amer. Math. Soc.* 135, (2007), 3561-3569.
7. **D.S. Cvetković-Ilić**, D. Alegra, J.J. Koliha, *Positive and real-positive solutions to the equation $axa^*=c$ in C^* -algebra*, *Linear & Multilinear algebra*, 55, (6) (2007), 535--543.
8. J.J. Koliha, D.S. Djordjević and **D.S. Cvetković-Ilić**, *Moore-Penrose inverse in rings with involution*, *Linear Algebra Appl.*, 426(2-3) (2007), 371-381.
9. **D.S. Cvetković-Ilić**, *Re-nnd solutions of the matrix equation $AXB=C$* , *Journal of the Australian Mathematical Society*, 84 (2008), 63-72.
10. **D.S. Cvetković-Ilić**, *Group Homomorphism h_i such that $h_1(x_1)...h_n(x_n) = y$ is Solvable*, *Appl. Math. Letters*, 21(4) (2008), 361-365.
11. **D.S. Cvetković-Ilić**, *The solutions of some operator equations*, *Journal of Korean Math. Soc.*, 45(5) (2008), 1417-1425.
12. **D.S. Cvetković-Ilić**, *A note of the representation of the Drazin inverse of 2×2 block matrix*, *Linear Algebra Appl.*, 429 (1), (2008), 242-248.
13. P. Stanimirović, **D.S. Cvetković-Ilić**, *Successive matrix squaring algorithm for computing outer inverse*, *App. Math. Comp.* 203 (1), (2008), 19-29.
14. B. Zheng, L. Ye, **D.S. Cvetković-Ilić**, *Generalized inverses of a normal matrix*, *App. Math. Comp.* 206 (2) (2008), 788-795.
15. B. Zheng, L. Ye, **D.S. Cvetković-Ilić**, *The congruence class of the solutions of some matrix equations*, *Comp. Math. Appl.*, 57(4) (2009), 540-549.
16. **D.S. Cvetković-Ilić**, Xiaoji Liu, Jin Zhong, *On the (p,q) outer generalized inverse in Banach algebra*, *App. Math. Comp.*, 209(2) (2009), 191-196.
17. **D.S. Cvetković-Ilić**, *Expression of the Drazin and MP-inverse of partitioned matrix and quotient identity of generalized Schur complement*, *App. Math. Comp.* 213(1) (2009), 18-24.

18. **D.S. Cvetković-Ilić**, Jianbiao Chen, Zhaoliang Xu, *Explicit representations of the Drazin inverse of block matrix and modified matrix*, Linear & Multilinear Algebra, 57(4) (2009), 355 – 364.
19. **D.S. Cvetković-Ilić**, *The generalized Drazin inverse with commutativity up to a factor in a Banach algebra*, Linear Alg. Appl. 431(5-7) (2009), 783-791.
20. **D.S. Cvetković-Ilić**, C. Deng, *Some results on the Drazin invertibility and idempotents*, Journal of Math. Anal. Appl. 359(2) (2009), 731-738.
21. **D.S. Cvetković-Ilić**, Y. Wei, *Representation for the Drazin inverse of operators on Banach spaces*, Electronic Journal of Linear Algebra 18 (2009), 613-627.
22. **D.S. Cvetković-Ilić**, C. Deng, *The Drazin invertibility of the difference and the sum of two idempotent operators*, Journal of Computational and Applied Mathematics, 233(8) (2010), 1717-1722.
23. C. Deng, **D.S. Cvetković-Ilić**, Y. Wei, *Some results on the generalized Drazin inverse of operator matrices*, Linear & Multilinear Algebra. 58(4) (2010), 503-521.
24. **D.S. Cvetković-Ilić**, R. Harte, *On a Jacobson's lemma and Drazin invertibility*, Appl. Math. Letters 23 (2010), 417-420.
25. **D.S. Cvetković-Ilić**, V. Pavlović, *A comment on some recent results concerning the reverse order law for $\{1,3,4\}$ -inverses*, Appl. Math. Comp., 217, (2010), 105-109.
26. **D.S. Cvetković-Ilić**, R. Harte, *The spectral topology in rings*, Studia Mathematica, 200 (2010), 267-278.
27. **D.S. Cvetković-Ilić**, *Reverse order laws for $\{1,3,4\}$ -generalized inverses in C^* -algebras*, Appl. Math. Letters, 24(2) (2011), 210-213.
28. **D.S. Cvetković-Ilić**, R. Harte, *Reverse order laws in C^* -algebras*, Linar Algebra Appl. 434(5) (2011), 1388-1394.
29. J. Ljubisavljević, **D.S. Cvetković-Ilić**, *Additive results for the Drazin inverse of block matrices and applications*, Journal of Computational and Applied Mathematics, 235(12)(2011), 3683-3690.
30. P. Stanimirović, **D.S. Cvetković-Ilić**, Slađana Miljković, Marko Miladinović, *Full-rank representations of $\{2,3\}$, $\{2,4\}$ -inverses and successive matrix squaring algorithm*, App. Math. Comp. 217 (22) (2011), 9358-9367.
31. J. Nikolov, **D.S. Cvetković-Ilić**, *Reverse order laws for the weighted generalized inverses*, Appl. Math. Letters, 24 (2011), 2140-2145.
32. **D.S. Cvetković-Ilić**, P. Stanimirović, Marko Miladinović, *Comments on some recent results concerning $\{2,3\}$ and $\{2,4\}$ -generalized inverses*, Appl. Math. Comp. 217(22) (2011), 9358-9367.
33. **D.S. Cvetković-Ilić**, *New additive results on Drazin inverse and its applications*, Appl. Math. Comp. 218(7) (2011), 3019-3024.

34. **D.S. Cvetković-Ilić**, Xiaoji Liu, Y. Wei, *Some additive results for the generalized Drazin inverse in a Banach algebra*, *Electronic J. Linear Algebra*, 22 (2011), 1049-1058.
35. M. Tomic, **D.S. Cvetković-Ilić**, D. Chunyuan, *The Moore-Penrose inverse of a linear combination of commuting generalized and hypergeneralized projectors*, *Electron. J. Linear Algebra* 22 (2011), 1129-1137.
36. M. Tošić, **D.S. Cvetković-Ilić**, *Invertibility of a linear combination of two matrices and partial orderings*, *Appl. Math. Comp.* 218 (2012) 4651-4657
37. C.Deng, **D.S. Cvetković-Ilić**, Y. Wei, *Properties of the combinations of commutative idempotents*, *Linear Algebra Appl.*, 436 (2012) 202–221.
38. Yonghui Qin, Xiaoji Liu, **D.S. Cvetković-Ilić**, *Perturbation bounds for the Moore-Penrose inverse of operators*, *Filomat*, 26(2) (2012) 353 - 362.
39. **D.S. Cvetković-Ilić**, *New conditions for the reverse order laws for $\{1,3\}$ and $\{1,4\}$ -generalized inverses*, *Electronic Journal of Linear Algebra*, 23 (2012) 231-242.
40. **D.S. Cvetković-Ilić**, J. Ljubisavljević, *A note on the Drazin inverse of a modified matrix*, *Acta Math. Sci.*, 32 (2) (2012) 483-487 .
41. E. Boasso, **D.S. Cvetković-Ilić**, R. Harte, *On weighted reverse order laws for the Moore-Penrose inverse and K -inverses*, *Comm. Algebra*, 40:3 (2012)9 59-971.
42. C.Deng, **D.S. Cvetković-Ilić**, Y. Wei, *On invertibility of combinations of k - potent operators*, *Linear Algebra Appl.*, 437(1) (2012) 376-387.
43. X. Liu, S. Huang, **D.S. Cvetković-Ilić**, *Mixed-type reverse-order laws for $\{1,3,4\}$ -generalized inverses over Hilbert spaces*, *Appl. Math. Comp.* 218(17)(2012), 8570-8577.
44. J.J. Koliha, **D.S. Cvetković-Ilić**, C. Deng, *Generalized Drazin invertibility of combinations of idempotents*, *Linear Algebra Appl.*, 437(9) (2012) 2317-2324.
45. M. Tošić, **D.S. Cvetković-Ilić**, *The invertibility of the difference and the sum of commuting generalized and hypergeneralized projectors*, *Linear & Multilinear Algebra.*, 61(4) (2013), 482-493.
46. G. Zhuang, J. Chen, **D.S. Cvetković-Ilić**, Y. Wei, *Additive Property of Drazin Invertibility of Elements in a ring*, *Linear & Multilinear Algebra*, 60(8) (2012), 903-910.
47. X. Liu, Shuxia Wu, **D.S. Cvetković-Ilić**, *New results on reverse order law for $\{1,2,3\}$ and $\{1,2,4\}$ -inverses of bounded operators*, *Mathematics of Computation*, 82 (283), (2013), 1597-1607.
48. **D.S. Cvetković-Ilić**, H. Jin, X. Liu, *The absorption laws for the generalized inverses*, *Appl. Math. Comp.*, 219(4) (2012), 2053-2059.
49. J. Ljubisavljević, **D.S. Cvetković-Ilić**, *Representations for the Drazin inverse of block matrix*, *J. Comput. Anal. Appl.* 15(3), (2013) 481-497.

50. J. Benitez, **D.S. Cvetković-Ilić**, *Equalities of ideals associated with two projections in rings with involution*, Linear Multilinear Algebra, 61(10), (2013), 1419-1435.
51. **D.S. Cvetković-Ilić**, X. Liu, H. Jin, *Representations of generalized inverses of partitioned matrix involving Schur complement*, Appl. Math. Comp. 219(18), (2013), 9615-9629.
52. **D.S. Cvetković-Ilić**, *Some results on the (2, 2, 0) Drazin inverse problem*, Linear Algebra Appl., 438(12), (2013), 4726-4741.
53. **D.S. Cvetković-Ilić**, J. Nikolov, *Reverse order laws for {1, 2, 3}-generalized inverses*, Appl. Math. Comp. (to appear).
54. J. Benitez, **D.S. Cvetković-Ilić**, *On the elements aa^+ and a^+a in a ring*, Applied Math. Comp., 222 (2013) 478-489.
55. **D.S. Cvetković-Ilić**, J. Nikolov, *Re-nnd generalized inverses*, 439(10), (2013) 2999-3007.
56. J. Benitez, **D.S. Cvetković-Ilić**, X. Liu, *On the continuity of the group inverse in C^* -algebras*, Banach J. Math. Anal. (accepted).
57. **D.S. Cvetković-Ilić**, J. Nikolov, *Reverse order laws for {1, 2, 3}-generalized inverses*, 234(2014) 114-117.
58. **D.S. Cvetković-Ilić**, J. Nikolov, *Reverse order laws for reflexive generalized inverse of operators*, Linear & Multilinear Algebra, (accepted).
59. **D.S. Cvetković-Ilić**, *The point, residual and continuous spectrum of an upper triangular operator matrix*, Linear Algebra Appl. (accepted).

Sve publikacije u pdf formatu se mogu naći na sajtu:

<http://tesla.pmf.ni.ac.rs/people/Dragana/publications.htm>

4. Citiranost

Pronađeno je preko 350 citata (bez auto citata) na radove Dragane Cvetković-Ilić u periodu od 2007. do 2013. godine. Tri najcitiranija rada su:

- rad [12] ima 36 citata (bez auto citata);
- rad [5] ima 32 citata (bez auto citata);
- rad [8] ima 27 citata (bez auto citata);

5. Predavanja na konferencijama

1. **D.S. Cvetković**, *On gaps between bounded operators in Banach spaces*, 10th Congress of Yugoslav Mathematicians, 21-24 January, 2001, Belgrade, Serbia and Montenegro.
2. **D.S. Cvetković**, *Some generalizations of Schur complements*, 5th International Symposium on Mathematical Analysis and its Applications, 2-6 October, 2002, Niška Banja, Serbia and Montenegro.
3. **D.S. Cvetković**, *Schur complements in C^* -algebra*, The Sixth International Symposium on Nonlinear Mechanics - Nonlinear Sciences and Applications, 24-29 August, 2003, Niš, Serbia and Montenegro.
4. **D.S. Cvetković**, *Generalized inverses and a block-rank equation*, International Congress MASSEE'2003, 15-21 September, 2003 Borovets, Bulgaria.
5. **D.S. Cvetković**, *Block-rank equation*, International Workshop on Modern Functional Analysis, Operator Theory, Summability and Applications, 25-28 September, 2003, Niška Banja, Serbia and Montenegro.
6. **D.S. Cvetković**, *On a block-rank equation*, Workshop in Mathematical Analysis, 16-21 March, 2004, Guanajuato, Mexico.
7. **D.S. Cvetković**, Dragan Djordjević, J.J. Koliha, *Moore-Penrose Inverse in Rings with Involution*, XI Congress of Mathematicians of Serbia and Montenegro, September 29-October 3, 2004, Petrovac, Serbia and Montenegro.
8. **D.S. Cvetković-Ilić**, Barcelona Conference on C^* -algebre and their invariant, CRM, 11 June-15 June, 2007, Barcelona, Bellatera, Spain.
9. **D.S. Cvetković-Ilić**, Positive and real-positive solutions to the equation $axa^*=c$ in C^* -algebras, 01-06 May, 2008 V. Banja, Serbia.
10. **D.S. Cvetković-Ilić**, Representations for the Drazin inverse of 2×2 block matrices, XII Congress of Mathematicians of Serbia, 26 August-02 September, 2008, N. Sad, Serbia.
11. **D.S. Cvetković-Ilić**, Additive properties and representations of the Drazin inverse, 16th ILAS Conference, 21 June-25 June, 2010, Pisa, Italy.
12. **D.S. Cvetković-Ilić**, The Moore-Penrose inverse of a linear combination of commuting generalized and hypergeneralized projectors, 2012 SIAM Conference on Applied Linear Algebra, June 18-22, 2012, Valencia, Spain.
13. **D.S. Cvetković-Ilić**, Some additive properties of the Drazin inverse and $(2; 2; 0)$ Drazin inverse, International Workshop on Generalized Inverses, November 02-04, 2012, Nanjing, China.

6. Organizacione aktivnosti

Zajedno sa profesorima Yimin Weiom (Kina) i Nestor Thomom (Španija) bila je organizator mini-simpozijuma “**Generalized inverses and applications**” u okviru **SIAM Conference on Applied Linear Algebra**, Valensia, Španija, Jun 18-22, 2012.

Od 2011 godine, kao predstavnik Univerziteta u Nišu učestvuje u radnom telu **Institutional HR Strategy group** u organizaciji Evropske komisije, koje ima za cilj dobijanje labele C&C.

Aktivno učestvuje u radu Odeljenja za matematiku, Centra za naučno-istraživački rad SANU.

Upravnik je Instituta za matematiku, Prirodno-matematičkog fakulteta, Univerziteta u Nišu, od maja 2012 godine.

Već 11 godina, predaje u specijalnom odeljenju za decu talentovanu za matematiku, Gimnazije “Svetozar Marković” u Nišu i jedan je od kordinatora rada tog odeljenja.

Curriculum Vitae
of
Dragana S. Cvetković-Ilić

PERSONAL DATA:

Born: November 19, 1977, Surdulica, Serbia
Home: Bulevar Nikole Tesle 55/11, 18000 Nis, Serbia
tel: +381 18 588 103
Office: Faculty of Science and Mathematics, University of Nis
Visegradska 33, 18000 Nis, Serbia
E-mail: dragana@pmf.ni.ac.rs
Family status: Married, two children

EDUCATION:

B. S. in Mathematics, 1999
Department of Mathematics, Faculty of Philosophy, University of Nis

M. S. in Mathematics, 2002
Department of Mathematics, Faculty of Science and Mathematics, University of Nis
Thesis title: Gaps between Banach spaces and applications
Thesis advisor: Professor Vladimir Rakočević

Ph.D. in Mathematics, 2004
Department of Mathematics, Faculty of Science and Mathematics, University of Nis
Thesis title: Schur complement and generalizations
Thesis advisor: Professor Dragan Đorđević

WORKING EXPERIENCE:

Junior Teaching Assistant, University of Nis, Faculty of Philosophy, Department of Mathematics, (1999-2001)

Assistant, University of Nis, Faculty of Science and Mathematics, Department of Mathematics, (2001-2004)

Assistant Professor University of Nis, Faculty of Science and Mathematics, Department of Mathematics, (2004-2007)

Associate Professor, University of Nis, Faculty of Science and Mathematics, Department of Mathematics, (2007 to 2010)

Full Professor, University of Nis, Faculty of Science and Mathematics, Department of Mathematics, (2010 to date)

FUNDED PROJECTS—RESEARCH

China-Serbian Bilateral Research Project: Generalized inverses and applications
Project leader in China: Yimin Wei
Project leader in Serbia: Dragana Cvetković-Ilić , duration: 2013–2015

Slovenian-Serbian Bilateral Research Project: Preservers and various operator and matrix equations with applications
Project leader in Slovenia: Peter Semrl
Project leader in Serbia: Dragan Đorđević, duration: 2011–2013

Serbian Ministry of Science, Technology and Development No. 174007
Project leader: Dragan Đorđević, duration: 2011-

Serbian Ministry of Science, Technology and Development No. 1389
Project leader: Vladimir Rakočević, duration: 2006–2010

Serbian Ministry of Science, Technology and Development No. 1232
Project leader: Vladimir Rakočević, duration: 2002–2006

TEACHING ACTIVITIES:

- a) Under-graduate:
Calculus I, Measures and Integrations, Functional Analysis, Operator Theory, Numerical Analysis I
- b) Post Graduate :
Generalized Inverses and Applications, Theory of operator, Measures and Integrations
- c) Ph. D: Theory of generalized inverses, Theory of operator

RESEARCH VISITS:

Centro de Investigacionen Matematicas, Guanajuato, Mexico, 2004
International Centre for Theoretical Physics, Trieste, Italy, 2005
International Centre for Theoretical Physics, Trieste, Italy, 2009
Southeast University of Nanjing, Nanjing, 2012
ChinaShanghai Institute of Tehnology, Shanghai, 2012
China Shanghai Normal University, Shanghai, 2012

AWARDS:

The best graduate student of the University of Nis in 1999
“For women in Sciences”, Loreal-Unesco, 2010, Serbia

REFEREE AND REVIEW SERVICE:

Acta Mathematica Hungarica, Mat. Vesnik, Publ. Inst. Math. Beograd, Filomat, Journal of The Australian Math.Society, Studia Mathematica, Mathematical Reviews, Math. Zbl., Linear Algebra and Its Applications, Applied Mathematics and computations, Applied Numerical Mathematics, Applied Mathematics Letters, Journal of Mathematical Analysis and Applications, Acta. Sci. Math. (Szeged), Novi Sad Journal of Mathematics, Mathematica Moravica, Journal of Numerical Analysis, Kragujevac Journal of Mathematics, Publ. Math. Debrecen

Indian Journal of Mathematics, International Journal of Mathematics and Mathematical Sciences, Bulletin of the London Mathematical Society, Journal of Operator Theory, Nonlinear Analysis, Series A, Theory, Methods and Applications, Journal of Inequalities and Applications, Mathematical and Computer Modeling

MEMBER OF THE EDITORIAL BOARD:

Scientific World Journal-Mathematical Analysis (IF 1.730)

FILOMAT (IF 0.714)

FACTA UNIVERSITATIS, Series Mathematics and Informatics

Antarctica Journal of Mathematics

American Journal of Computational Mathematics

PHD STUDENTS:

Marina Tošić, 2013

Ph.D. Thesis: Generalized and hypergeneralized projectors

Jovana Nikolov, in progress

Ph.D. Thesis: Pseudoinverses and reverse order law for matrices and operators

Jelena Višnjić, in progress

Ph.D. Thesis: Additive properties of the Drazin inverse and Drazin inverse of a block-matrix

Marko Djikić, in progress

BOOK:

D. Cvetković-Ilić, V. Rakočević, Functional Analysis-Book of problems, Nis, 2007 (in Serbian)

Dragana Cvetković-Ilić, Generalized inverses and application, Faculty of Sciences and Mathematics, Nis, 2011. (Monography)

ARTICLES (M21-M23):

1. **D.S. Cvetković-Ilić**, D. Đorđević, V. Rakočević, Schur complements in C^* -algebra, *Mathematische Nachrichten*, 278 (7-8) (2005), 808-814.
2. **D.S. Cvetković-Ilić**, Generalized inverses and a block-rank equation, *Publicationes Mathematicae Debrecen*, 66 (3-4) (2005), 417-426.
3. **D.S. Cvetković-Ilić**, A note on the problem of N. Thome and Y. Wei, *Applied Mathematics and Computation*, 166 (1)(2005), 233-236.
4. **D.S. Cvetković-Ilić**, The reflexive solutions of the matrix equation $AXB=C$, *Comp. Math. Appl.*, 51 (2006), 897-902.
5. **D.S. Cvetković-Ilić**, D. Đorđević and Y. Wei, Additive results for the generalized Drazin inverse in a Banach algebra, *Linear Algebra Appl.*, 418 (2006), 53-61.
6. **D.S. Cvetković-Ilić**, R. Harte, On the algebraic closure in rings, *Proc. Amer. Math. Soc.* 135, (2007), 3561-3569.
7. **D.S. Cvetković-Ilić**, D. Alegra, J.J. Koliha, Positive and real-positive solutions to the equation $axa^*=c$ in C^* -algebra, *Linear & Multilinear algebra*, 55, (6) (2007), 535--543.

8. J.J. Koliha, D.S. Djordjević and **D.S. Cvetković-Ilić**, Moore-Penrose inverse in rings with involution, *Linear Algebra Appl.*, 426(2-3) (2007), 371-381.
9. **D.S. Cvetković-Ilić**, Re-nnd solutions of the matrix equation $AXB=C$, *Journal of the Australian Mathematical Society*, 84 (2008), 63-72.
10. **D.S. Cvetković-Ilić**, Group Homomorphism h_i such that $h_1(x_1)\dots h_n(x_n) = y$ is Solvable, *Appl. Math. Letters*, 21(4) (2008), 361-365.
11. **D.S. Cvetković-Ilić**, The solutions of some operator equations, *Journal of Korean Math. Soc.*, 45(5) (2008), 1417-1425.
12. **D.S. Cvetković-Ilić**, A note of the representation of the Drazin inverse of 2×2 block matrix, *Linear Algebra Appl.*, 429 (1), (2008), 242-248.
13. P. Stanimirović, **D.S. Cvetković-Ilić**, Successive matrix squaring algorithm for computing outer inverse, *App. Math. Comp.* 203 (1), (2008), 19-29.
14. B. Zheng, L. Ye, **D.S. Cvetković-Ilić**, Generalized inverses of a normal matrix, *App. Math. Comp.* 206 (2) (2008), 788-795.
15. B. Zheng, L. Ye, **D.S. Cvetković-Ilić**, The congruence class of the solutions of some matrix equations, *Comp. Math. Appl.*, 57(4) (2009), 540-549.
16. **D.S. Cvetković-Ilić**, Xiaoji Liu, Jin Zhong, On the (p,q) outer generalized inverse in Banach algebra, *App. Math. Comp.*, 209(2) (2009), 191-196.
17. **D.S. Cvetković-Ilić**, Expression of the Drazin and MP-inverse of partitioned matrix and quotient identity of generalized Schur complement, *App. Math. Comp.* 213(1) (2009), 18-24.
18. **D.S. Cvetković-Ilić**, Jianbiao Chen, Zhaoliang Xu, Explicit representations of the Drazin inverse of block matrix and modified matrix, *Linear & Multilinear Algebra*, 57(4) (2009), 355 – 364.
19. **D.S. Cvetković-Ilić**, The generalized Drazin inverse with commutativity up to a factor in a Banach algebra, *Linear Alg. Appl.* 431(5-7) (2009), 783-791.
20. **D.S. Cvetković-Ilić**, C. Deng, Some results on the Drazin invertibility and idempotents, *Journal of Math. Anal. Appl.* 359(2) (2009), 731-738.
21. **D.S. Cvetković-Ilić**, Y. Wei, Representation for the Drazin inverse of operators on Banach spaces, *Electronic Journal of Linear Algebra* 18 (2009), 613-627.
22. **D.S. Cvetković-Ilić**, C. Deng, The Drazin invertibility of the difference and the sum of two idempotent operators, *Journal of Computational and Applied Mathematics*, 233(8) (2010), 1717-1722.
23. C. Deng, **D.S. Cvetković-Ilić**, Y. Wei, Some results on the generalized Drazin inverse of operator matrices, *Linear & Multilinear Algebra*. 58(4) (2010), 503-521.
24. **D.S. Cvetković-Ilić**, R. Harte, On a Jacobson's lemma and Drazin invertibility, *Appl. Math. Letters* 23 (2010), 417-420.
25. **D.S. Cvetković-Ilić**, V. Pavlović, A comment on some recent results concerning the reverse order law for $\{1,3,4\}$ -inverses, *Appl. Math. Comp.*, 217, (2010), 105-109.
26. **D.S. Cvetković-Ilić**, R. Harte, The spectral topology in rings, *Studia Mathematica*, 200 (2010), 267-278.
27. **D.S. Cvetković-Ilić**, Reverse order laws for $\{1,3,4\}$ -generalized inverses in C^* -algebras, *Appl. Math. Letters*, 24(2) (2011), 210-213.
28. **D.S. Cvetković-Ilić**, R. Harte, Reverse order laws in C^* -algebras, *Linear Algebra Appl.* 434(5) (2011), 1388-1394.
29. J. Ljubisavljević, **D.S. Cvetković-Ilić**, Additive results for the Drazin inverse of block matrices and applications, *Journal of Computational and Applied Mathematics*, 235(12)(2011), 3683-3690.
30. P. Stanimirović, **D.S. Cvetković-Ilić**, Slađana Miljković, Marko Miladinović, *Full-rank representations of $\{2,3\}$, $\{2,4\}$ -inverses and successive matrix squaring algorithm*, *App. Math. Comp.* 217 (22) (2011), 9358-9367.
31. J. Nikolov, **D.S. Cvetković-Ilić**, Reverse order laws for the weighted generalized inverses, *Appl. Math. Letters*, 24 (2011), 2140-2145.
32. **D.S. Cvetković-Ilić**, P. Stanimirović, Marko Miladinović, *Comments on some recent results concerning $\{2,3\}$ and $\{2,4\}$ -generalized inverses*, *Appl. Math. Comp.* 217(22) (2011), 9358-9367.
33. **D.S. Cvetković-Ilić**, New additive results on Drazin inverse and its applications, *Appl. Math. Comp.* 218(7) (2011), 3019-3024.
34. **D.S. Cvetković-Ilić**, Xiaoji Liu, Y. Wei, *Some additive results for the generalized Drazin inverse in a Banach algebra*, *Electronic J. Linear Algebra*, 22 (2011), 1049-1058.

35. M. Tosić, **D.S. Cvetković-Ilić**, D. Chunyuan, The Moore-Penrose inverse of a linear combination of commuting generalized and hypergeneralized projectors, *Electron. J. Linear Algebra* 22 (2011), 1129-1137.
36. M. Tošić, **D.S. Cvetković-Ilić**, Invertibility of a linear combination of two matrices and partial orderings, *Appl. Math. Comp.* 218 (2012) 4651-4657
37. C.Deng, **D.S. Cvetković-Ilić**, Y. Wei, Properties of the combinations of commutative idempotents, *Linear Algebra Appl.*, 436 (2012) 202–221.
38. Yonghui Qin, Xiaoji Liu, **D.S. Cvetković-Ilić**, Perturbation bounds for the Moore-Penrose inverse of operators, *Filomat*, 26(2) (2012) 353 - 362.
39. **D.S. Cvetković-Ilić**, New conditions for the reverse order laws for $\{1,3\}$ and $\{1,4\}$ -generalized inverses, *Electronic Journal of Linear Algebra*, 23 (2012) 231-242.
40. **D.S. Cvetković-Ilić**, J. Ljubisavljević, A note on the Drazin inverse of a modified matrix, *Acta Math. Sci.*, 32 (2) (2012) 483-487 .
41. E. Boasso, **D.S. Cvetković-Ilić**, R. Harte, On weighted reverse order laws for the Moore-Penrose inverse and K-inverses, *Comm. Algebra*, 40:3 (2012) 59-971.
42. C.Deng, **D.S. Cvetković-Ilić**, Y. Wei, On invertibility of combinations of k -potent operators, *Linear Algebra Appl.*, 437(1) (2012) 376-387.
43. X. Liu, S. Huang, **D.S. Cvetković-Ilić**, Mixed-type reverse-order laws for $\{1,3,4\}$ -generalized inverses over Hilbert spaces, *Appl. Math. Comp.* 218(17)(2012), 8570-8577.
44. J.J. Koliha, **D.S. Cvetković-Ilić**, C. Deng, Generalized Drazin invertibility of combinations of idempotents, *Linear Algebra Appl.*, 437(9) (2012) 2317-2324.
45. M. Tošić, **D.S. Cvetković-Ilić**, The invertibility of the difference and the sum of commuting generalized and hypergeneralized projectors, *Linear & Multilinear Algebra.*, 61(4) (2013), 482-493.
46. G. Zhuang, J. Chen, **D.S. Cvetković-Ilić**, Y. Wei, Additive Property of Drazin Invertibility of Elements in a ring, *Linear & Multilinear Algebra*, 60(8) (2012), 903-910.
47. X. Liu, Shuxia Wu, **D.S. Cvetković-Ilić**, New results on reverse order law for $\{1,2,3\}$ and $\{1,2,4\}$ -inverses of bounded operators, *Mathematics of Computation*, 82 (283), (2013), 1597-1607.
48. **D.S. Cvetković-Ilić**, H. Jin, X. Liu, The absorption laws for the generalized inverses, *Appl. Math. Comp.*, 219(4) (2012), 2053-2059.
49. J. Ljubisavljević, **D.S. Cvetković-Ilić**, Representations for the Drazin inverse of block matrix, *J. Comput. Anal. Appl.* 15(3), (2013) 481-497.
50. J. Benitez, **D.S. Cvetković-Ilić**, Equalities of ideals associated with two projections in rings with involution, *Linear Multilinear Algebra*, 61(10), (2013), 1419-1435.
51. **D.S. Cvetković-Ilić**, X. Liu, H. Jin, Representations of generalized inverses of partitioned matrix involving Schur complement, *Appl. Math. Comp.* 219(18), (2013), 9615-9629.
52. **D.S. Cvetković-Ilić**, Some results on the $(2, 2, 0)$ Drazin inverse problem, *Linear Algebra Appl.*, 438(12), (2013), 4726-4741.
53. **D.S. Cvetković-Ilić**, J. Nikolov, Reverse order laws for $\{1, 2, 3\}$ -generalized inverses, *Appl. Math. Comp.* (to appear).
54. J. Benitez, **D.S. Cvetković-Ilić**, On the elements aa^+ and $a+a$ in a ring, *Applied Mathematics and Computation* 222 (2013) 478–489.
55. **D.S. Cvetković-Ilić**, J. Nikolov, Re-nnd generalized inverses, 439(10), (2013) 2999-3007.
56. J. Benitez, **D.S. Cvetković-Ilić**, X. Liu, On the continuity of the group inverse in C^* -algebras, *Banach J. Math. Anal.* (accepted).
57. **D.S. Cvetković-Ilić**, J. Nikolov, Reverse order laws for $\{1, 2, 3\}$ -generalized inverses, 234(2014) 114-117.
58. **D.S. Cvetković-Ilić**, J. Nikolov, Reverse order laws for reflexive generalized inverse of operators, *Linear & Multilinear Algebra*, (accepted).
59. **D.S. Cvetković-Ilić**, The point, residual and continuous spectrum of an upper triangular operator matrix, *Linear Algebra Appl.* (accepted).

CONFERENCES:

1. D.S. Cvetković, On gaps between bounded operators in Banach spaces, 10th Congress of Yugoslav Mathematicians, 21-24 January, 2001, Belgrade, Serbia and Montenegro.
2. D.S. Cvetković, Some generalizations of Schur complements, 5th International Symposium on Mathematical Analysis and its Applications, 2-6 October, 2002, Niška Banja, Serbia and Montenegro.
3. D.S. Cvetković, Schur complements in C^* -algebra, The Sixth International Symposium on Nonlinear Mechanics - Nonlinear Sciences and Applications, 24-29 August, 2003, Niš, Serbia and Montenegro.
4. D.S. Cvetković, Generalized inverses and a block-rank equation, International Congress MASSEE'2003, 15-21 September, 2003 Borovets, Bulgaria.
5. D.S. Cvetković, Block-rank equation, International Workshop on Modern Functional Analysis, Operator Theory, Summability and Applications, 25-28 September, 2003, Niška Banja, Serbia and Montenegro.
6. D.S. Cvetković, On a block-rank equation, Workshop in Mathematical Analysis, 16-21 March, 2004, Guanajuato, Mexico.
7. D.S. Cvetković, Dragan Djordjević, J.J. Koliha, Moore-Penrose Inverse in Rings with Involution, XI Congress of Mathematicians of Serbia and Montenegro, September 29-October 3, 2004, Petrovac, Serbia and Montenegro.
8. D.S. Cvetković-Ilić, Barcelona Conference on C^* -algebre and their invariant, CRM, 11 June-15 June, 2007, Barcelona, Bellatera, Spain.
9. D.S. Cvetković-Ilić, Positive and real-positive solutions to the equation $axa^*=c$ in C^* -algebras, 01-06 May, 2008 V. Banja, Serbia.
10. D.S. Cvetković-Ilić, Representations for the Drazin inverse of 2×2 block matrices, XII Congress of Mathematicians of Serbia, 26 August-02 September, 2008, N. Sad, Serbia.
11. D.S. Cvetković-Ilić, Additive properties and representations of the Drazin inverse, 16th ILAS Conference, 21 June-25 June, 2010, Pisa, Italy.
12. D.S. Cvetković-Ilić, The Moore-Penrose inverse of a linear combination of commuting generalized and hypergeneralized projectors, 2012 SIAM Conference on Applied Linear Algebra, June 18-22, 2012, Valencia, Spain.
13. D.S. Cvetković-Ilić, Some additive properties of the Drazin inverse and $(2; 2; 0)$ Drazin inverse, International Workshop on Generalized Inverses, November 02-04, 2012, Nanjing, China.