Научно-стручно веће за природно-математичке науке
Предмет: Образац о испуњавању услова за избор у звање наставника

Област: Остале области
Звање: Редовни професор

Име и презиме:
Небојша Динчић

Датум рођења:
21. март 1983.

Назив и седиште установе/организације у којој је кандидат запослен:
Природно-математички факултет, Ниш

Радно место:
ванредни професор

Датум расписивања конкурса:
18. децембар 2019.

Начин (место) објављивања:
лист Послови бр. 860 од 18. децембра 2019.

Звање за које је расписан конкурс:
ванредни или редовни професор за ужу н/о Математика

Звање за које кандидат конкурише (заокружити одговарајућу опцију):

1. Доцент
2. Доцент или ванредни професор
3. Ванредни професор
4. Ванредни професор или редовни професор
5. **Редовни професор**

Ужа научна област:
Математика

1. Испуњени услови за избор у звање ванредни професор
(навести датум и број Одлуке о избору у звање наставника, као и назив органа који је донео)
4. мај 2015. године, НСВ број 8/17-01-005/15-003 Научно-стручно веће за природно-математичке науке Универзитета у Нишу

2. позитивна оцена педагошког рада која се утврђује у складу са чланом 13. Правилника о поступку стицања звања и заснивања радног односа наставника Универзитета у Нишу (навести број и датум утврђене оцене)
биће достављена са Извештајем Комисије

3. Остварене активности бар у четири елемента доприноса широј академској заједници из члана 4. Ближих критеријума за избор у звања наставника

- **заједно са сарадницима и студентима учествовао на манифестацијама одржаним у Нишу: Наук није баук 2017, 2018. и 2019, Ноћ истраживача 2017, 2018. и 2019, Математика у мају 2018. Са групом сарадника организовао обележавање Маја месеца математике 2017, 2018. и 2019. године у просторијама Факултета**
- **члан Савета Природно-математичког факултета у Нишу од 2018. године**
- **члан Српског научног математичког друштва**
- **један од оснивача и потпредседник Астрономског друштва Вега из Сурдулице, у оквиру којег је између осталог активно учествовао у организацији манифестације Мај месец математике 2013, 2014, 2015. и 2016. године**
- **председник Комисије за промоцију Департмана за математику**
- **члан уређивачког одбора научног часописа Functional Analysis, Approximation and Computation, који издаје Природно-математички факултет у Нишу**
- **од 18. априла 2013. године уредник стручног часописа Математика и информатика, који издаје Природно-математички факултет у Нишу**
- **рецензирао радове за следеће иностране и домаће научне часописе: Applied Mathematics and Computation, Communications in Algebra, Electronic Journal of Linear Algebra, Facta Universitatis, Series: Mathematics and Informatics, Filomat, Functional Analysis, Approximation and Computation, Kragujevac Journal of Mathematics, Linear and Multilinear Algebra, Mediterranean Journal of Mathematics, Proceedings of the American Mathematical Society, итд.**
- **учешће на међународним семинарима, и то:**
    - **Probabilistic models in mathematical biology and bioinformatics, DAAD, decembar 2014, Bitola, Makedonija**
    - **Symmetry in science and arts, DAAD, maj 2011, Vrnjačka Banja, Srbija**
    - **Посета Институту за математику, физику и механику у Љубљани, Словенија, октобра 2014. у склопу међудржавне сарадње и излагање својих резултата**

4. Менторство или коменторство бар једне докторске дисертације

4. замена: Један научни рад у часопису категорије М21 или М22, или један уџбеник или једна монографија (рад, уџбеник и монографија се не рачунају у ставовима 6., 8. и 9.)
Nebojša Č. Dinčić, *Solving the Sylvester equation AX-XB=C when $\sigma(A)\cap \sigma(B)\neq\emptyset$*, Electronic Journal of Linear Algebra 35 (2019), 1-23 (M22)
https://repository.uwyo.edu/cgi/viewcontent.cgi?article=3698&context=ela
DOI: https://doi.org/10.13001/1081-3810.3698

5. Остварени резултати у развоју научно-наставног подмлатка, и то у барем једном од следећих елемената: учешћем у комисијама за одбрану докторске дисертације, магистарске тезе или мастер рада, држањем наставе на докторским студијама, држањем припрема студената за студентска такмичења, учешћем у завршним радовима на специјалистичким и мастер студијама и слично

- **држање наставе на докторским студијама (ДАС Математика: Нелинеарне једначине и системи, Уопштени инверзи и системи диференцијалних једначина; Докторска школа математике, модул Анализа)**

- **учешће у бројним комисијама за одбрану дипломских и мастер радова**
- **менторство 7 дипломских (Иван Павловић 2016, Јелена Миликић 2016, Игор Васиљевић 2015, Тања Ћиров 2014, Милош Павловић 2014, Војин Дошло 2013, Светлана Стојановић 2012.) и 6 мастер радова (Светлана Станковић 2019, Александра Влајковић 2018, Александра Миловановић 2018, Марија Милетић 2018, Кристина Цветков 2017, Богдан Ђорђевић 2017.)**
- **успешан менторски рад: студенти Богдан Ђорђевић 2017. и Александра Влајковић 2019. добили су редом прву награду односно похвалу на конкурсу Математичког института САНУ за најбољи мастер рад**
- **менторство једном успешном студенту Докторске школе математике**

6. Од избора у претходно звање објављен уџбеник или монографија из уже научне области за коју се бира

Уџбеник: Небојша Динчић, Математика 1 за студенте физике, Природно-математички факултет, Ниш, 2020. (у штампи)

7. Учешће у међународним или домаћим научним пројектима

- **2006-2010. Пројекат број 144003, Теорија оператора, стохастичка анализа и примене, Министарство за науку и технолошки развој Републике Србије**
- **од 2011. Пројекат број 174007, Функционална анализа, стохастичка анализа и примене, Министарства просвете, науке и технолошког развоја Републике Србије**
- **principal investigator тима који је пријавио пројекат са акронимом LOTA за ПРОМИС Фонда за науку Републике Србије; резултати конкурса очекују се почетком 2020. године**

8. У последњих пет година најмање један рад објављен у часопису који издаје Универзитет у Нишу или факултет Универзитета у Нишу или са SCI листе, у којем је првопотписани аутор

Nebojša Č. Dinčić, *Extending the Moore-Penrose inverse*, Filomat 30:2 (2016), 419-428 (M22)
https://www.pmf.ni.ac.rs/filomat-content/2016/30-2/30-2-18-2340.pdf
DOI: 10.2298/FIL1602419D

9. Најмање 18 поена остварених објављивањем научних радова у часописима категорија М21, М22, М23, у складу са начином бодовања Министарства просвете, науке и технолошког развоја Републике Србије, с тим што бар на једном раду кандидат мора бити првопотписани аутор (навести податке о научним радовима, DOI бројеве)

- **Nebojša Č. Dinčić**, *Extending the Moore-Penrose inverse*, Filomat, 30:2 (2016), 419-428. **(M22)**
  https://www.pmf.ni.ac.rs/filomat-content/2016/30-2/30-2-18-2340.pdf
  DOI 10.2298/FIL1602419D
- Bogdan D. Djordjević, **Nebojša Č. Dinčić**, *Solving the operator equation AX-XB=C with closed A and B*, Integr. Equ. Oper. Theory, 90:51 (2018) **(M22)**
  https://link.springer.com/article/10.1007%2Fs00020-018-2473-3
  https://doi.org/10.1007/s00020-018-2473-3
- **Nebojša Č. Dinčić**, *Solving the Sylvester equation AX-XB=C when $\sigma(A)\cap \sigma(B)\neq\emptyset$*, Electronic Journal of Linear Algebra, 35 (2019), 1-23. **(M22)**
  https://repository.uwyo.edu/cgi/viewcontent.cgi?article=3698&context=ela
  DOI: https://doi.org/10.13001/1081-3810.3698
- Bogdan D. Djordjević, **Nebojša Č. Dinčić**, Classification and Approximation of Solutions

to Sylvester Matrix Equation, Filomat 33:13 (2019) (**M22**)
https://www.pmf.ni.ac.rs/filomat-content/2019/33-13/33-13-22-10465.pdf
DOI: https://doi.org/10.2298/FIL1913261D

- **N. Č. Dinčić**, Mixed-type reverse order law, ternary powers and functional calculus, Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas, 114 (2020) (**M21**)
https://ezproxy.nb.rs:2078/article/10.1007/s13398-019-00750-0
https://doi.org/10.1007/s13398-019-00750-0

9. замена: Један рад се замењује оствареним резултатом категорије М91

10. Најмање шест излагања на међународним или домаћим научним скуповима (копије радова из Зборника радова скупа или потврде организатора скупа да су радови презентовани)

1. **N. Č. Dinčić**, D. S. Djordjević, *Reverse order law for the Moore-Penrose inverse*, XII Srpski matematički kongres, 28. avgust – 2. septembar 2008, Novi Sad
2. **N. Č. Dinčić**, D. S. Djordjević, *Some identities concerning the reverse order law for the Moore-Penrose inverse*, Functional analysis and its applications, 16 – 18. jun 2009, Niš http://operator.pmf.ni.ac.rs/konferencije/Nis%202009/book%20of%20abstracts.pdf
3. **N. Č. Dinčić,** V. Rakočević, D. S. Djordjević, D. S. Cvetković – Ilić and D. Mosić, *Recent results on generalized inverses*, Theoretical Computer Science – From Foundation to Application, 7 – 11. novembar 2009, Građevinski fakultet, Niš http://www2.masfak.ni.ac.rs/tcs-fa09/index_files/and.html
4. **N. Č. Dinčić**, D. S. Djordjević, *New results concerning multiple reverse order law*, 16th conference of International Linear Algebra Society, 21 – 25. june 2010, Pisa, Italy
5. **N. Č. Dinčić**, D. S. Djordjević, *Some results concerning the Moore-Penrose inverse of Hilbert space operators*, 2nd International Conference Conteporary Problems of Mathematics, Mechanics and Informatics, 17 – 19. june 2012, Novi Pazar
6. **N. Č. Dinčić**, *Recent results on reverse order law*, XIII Srpski matematički kongres, 22 – 25. maj 2014, Vrnjačka Banja
7. **N. Č. Dinčić**, *Recent results on generalized inverses*, Analysis, Topology and Applications, 25 – 29. may 2014, Vrnjačka Banja
8. **N. Č. Dinčić**, *On the extended Moore-Penrose inverse*, XI International Symposium on Geometric Function Theory and Applications, August 24 – 27, 2015, Ohrid, Macedonia

11. Најмање десет цитата научних радова кандидата у другим научним радовима објављеним у научним часописима категорија М21, М22, М23 (изузимајући аутоцитате и цитате сарадника, односно коцитате)

D. S. Djordjević and **N. Č. Dinčić**, *Reverse order law for the Moore–Penrose inverse*, Journal of Mathematical Analysis and Applications, 361 (1) (2010), 252-261. **(M21)**
https://www.sciencedirect.com/science/article/pii/S0022247X09007069

1) Y. Xue, Stable perturbations of operators and related topics, World Scientific, 2012. (monografija) https://www.worldscientific.com/worldscibooks/10.1142/8365
2) D. S. Cvetković–Ilić and R. Harte, Reverse order laws in C*–algebras, Linear Algebra and its Applications 434 (5) (2011), 1388–1394. [M22]

https://doi.org/10.1016/j.laa.2010.11.022
(http://www.sciencedirect.com/science/article/pii/S0024379510005987)

3) C. Y. Deng, Reverse order law for group inverse, Journal of Mathematical Analysis and Applications 382 (2) (2011), 663–671. [M21] (http://www.sciencedirect.com/science/article/pii/S0022247X11004264)
4) D. S. Cvetković–Ilić and V. Pavlović, A comment on some recent results concerning the reverse order law for {1, 3, 4}−inverses, Applied Math. Comput. 217 (1) (2010), 105–109 [M21] (http://www.sciencedirect.com/science/article/pii/S0096300310005321)
5) X. Liu, S. Wu, and 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 [M21] DOI: https://doi.org/10.1090/S0025-5718-2013-02660-9 (http://www.ams.org/journals/mcom/2013-82-283/S0025-5718-2013-02660-9/home.html)
6) K. Sharifi and B. A. Bonakdar, The reverse order law for Moore-Penrose inverses of operators on Hilbert C*-modules, Bulletin of the Iranian Mathematical Society 42 (1) (2016), 53-60 [M23] (http://bims.iranjournals.ir/article_741_e95e4eb2557dba2d2bb48b970aa22608.pdf)
7) A. Korporal and G. Regensburger, On the product of projectors and generalized inverses, Linear and Multilinear Algebra 62(12) (2014), 1567–1582 [M22] (http://www.tandfonline.com/eprint/zifWzHa6yYjkEfrCt6mT/full#.VOmfOvnF9go)
8) Z. Xiong, The mixed-type reverse order laws for generalized inverses of the product of two matrices, Filomat 27:5 (2013), 937–947 [M21] (http://www.pmf.ni.ac.rs/pmf/publikacije/filomat/2013/27-5/F27-5-23.pdf)
9) M. Xue, H. Zhang and D. Li, Reverse Order Law for {1, 3}−Inverse of a Two-Operator Product, Applied Mathematical Sciences, Vol. 7, 2013, no. 130, 6465–6474 (http://www.m-hikari.com/ams/ams-2013/ams-129-132-2013/lidengfengAMS129-132-2013.pdf)
10) D. S. Cvetković-Ilić, H. Jin and X. Liu, The absorption laws for the generalized inverses, Appl. Math. Comp. 219(4) (2012), 2053–2059 [M21] (http://www.sciencedirect.com/science/article/pii/S0096300312008429)
11) J. Wang, H. Zhang and G. Ji, A generalized reverse order law for the products of two operators, Journal of Shaanxi Normal University (Natural Science Edition), Vol. 38, No. 4, 2010, 13-17
12) F. Du and Y. Xue, The reverse order law for Moore-Penrose inverse of closed operators, Chin. Quart. J. of Math. 28 (1), 2013, 139-146
13) D. Mosić, Reverse order law for the weighted Moore–Penrose inverse in C*−algebras, Aequationes Mathematicae 85 (3) (2013), 465–470 [M23] (http://link.springer.com/article/10.1007/s00010-012-0155-9)
14) H. Zekraoui, Z. Al-Zhour and C. Ozel, Some New Algebraic and Topological Properties of the Minkowski Inverse in the Minkowski Space, The Scientific World Journal, Volume 2013, http://dx.doi.org/10.1155/2013/765732

(http://www.hindawi.com/journals/tswj/2013/765732/abs/)
15) X. Liu, M. Zhang and Y. Yu, Note on the Invariance Properties of Operator Products Involving Generalized Inverses, Abstract and Applied Analysis Vol. 2014 (2014), [M21] http://dx.doi.org/10.1155/2014/213458 (http://www.hindawi.com/journals/aaa/2014/213458/abs/)
16) 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 [M22] (http://repository.uwyo.edu/cgi/viewcontent.cgi?article=1517&context=ela)
17) Z. Xiong and Y. Qin, A note on the reverse order law for least square g-inverses of operator product, Linear and Multilinear Algebra 64(7) (2016), pp. 1404-1414 (M21) (http://dx.doi.org/10.1080/03081087.2015.1087458)
18) Z. Xiong and Y. Qin, Triple reverse order law for Moore-Penrose inverse of operator product, J. Computational Analysis and Applications, 23(8) (2017), pp. 1347-1358 (http://www.eudoxuspress.com/images/JOCAAA-2017-VOL-23-ISSUE-8.pdf#page=23)
19) X. Wang, A. Yu, T. Li and C. Deng, Reverse order laws for the Drazin inverses, Journal of Mathematical Analysis and Applications, 444 (1) (2016), 672-689 (https://www.sciencedirect.com/science/article/pii/S0022247X16302566)
20) S. Menkad, Partial isometries and norm equalities for operators, Matematički vesnik 67 (4) (2015), 269-276 (https://www.emis.de/journals/MV/154/mv15404.pdf)
21) H. Zekraoui, C. Ozel, The Invariance of the Reverse Order Law under Generalized Inverses of the Product of Two Closed Range Bounded Linear Operators on Hilbert Spaces and Characterization of the Property by the Norm Majorization, General Letters in Mathematics 1 (1) (2016), 32-38 (https://doi.org/DOI:10.31559/glm2016.1.1.4)
22) J. Farokhi-Ostad and A. Reza Janfada, Products of EP operators on Hilbert C*-modules, Sahand Communications in Mathematical Analysis 10 (1) (2018), 61-71 (http://scma.maragheh.ac.ir/article_28402_1be457bb812e3fe49f49618ae3136280.pdf)
23) M. R. Jabbarzadeh, H. Emamalipour and M. Sohrabi Chegeni, Parallelism between Moore-Penrose inverse and Aluthge transform of operators, Applicable Analysis and Discrete Mathematics 12(2) (2018), pp. 318-335, Doi:https://doi.org/10.2298/AADM161026005J
24) F. Gao and G. Hong, Moore-Penrose inverses of operators in Hilbert C*-modules, International Journal of Mathematical Analysis 11 (8) 2017, 389-396, (http://www.m-hikari.com/ijma/ijma-2017/ijma-5-8-2017/p/hongIJMA5-8-2017.pdf)
25) J. Chen, Y. Ke, D. Mosić, The reverse order law of the (b,c)-inverse in semigroups, Acta Mathematica Hungarica, 151 (1) (2017), 181-198 (https://link.springer.com/article/10.1007/s10474-016-0667-1)
26) L. Wang, S. S. Zhang, X. X. Zhang and J. L. Chen, Mixed-type reverse order law for Moore-Penrose inverse of products of three elements in rings with involution, Filomat 28:10 (2014), 1997-2008 (http://www.doiserbia.nb.rs/img/doi/0354-5180/2014/0354-51801410997W.pdf)
27) N. Thome, A simultaneous canonical form of a pair of matrices and applications

involving the weighted Moore-Penrose inverse, Applied Mathematics Letters, vol. 53, issue, 2016, 112 – 118 (https://riunet.upv.es/bitstream/handle/10251/84990/THOME_revised.pdf?sequence=2)
28) M. Mohammadzadeh and M. Hassani, The solutions to some operator equations in Hilbert C*-module, Journal of Linear and Topological Algebra 4 (1) (2015), 35-42 (http://jlta.iauctb.ac.ir/article_513813_951b3470a1795ef1334304ce53162f13.pdf)
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30) M. Sohrabi Chegeni, N. Abbasi and H. Emamalipour, Fuglede-Putnam type theorems via the Moore-Penrose inverse and Aluthge transform, Journal of Mathematical Extension 11 (1) (2017), 33-46 (http://www.ijmex.com/index.php/ijmex/article/viewFile/499/300)
31) Z. Xiong and Z. Liu, Applications of completions of operator matrices to some properties of operator products on Hilbert spaces, Complex Analysis and Operator Theory 12 (1) (2018), 123-140
32) B. Liao and Y. Zhang, Different complex ZFs leading to different complex ZNN models for time-varying complex generalized inverse matrices, IEEE Transactions on Neural Networks and Learning Systems 25(9) (2014),6584795, pp. 1621-1631
33) M. R. Jabbarzadeh and M. Sohrabi Chegeni, Moore–Penrose inverse of conditional type operators, Operators and Matrices 11(1) (2017),11-19, pp. 289-299
34) B. Kramer and A. A. Gorodetsky, System identification via CUR-factored Hankel approximation, SIAM Journal on Scientific Computing 40(2) (2018), pp. A848-A866
35) A. Lay-Ekuakille, L. Fabbiano, G. Vacca, J. K. Kitoko, P. B. Kulapa and V. Telesca, A comparison between the decimated Padé approximant and decimated signal diagonalization methods for leak detection in pipelines equipped with pressure sensors, Sensors (Switzerland), 18(6) (2018),1810 doi:10.3390/s18061810
36) X. Yin, C. Wang, J. Wang, (...), X. Wang, W. Li, Control technology for five degree of freedom load recurrence of wind turbines |[风电机组五自由度载荷复现的控制技术], Taiyangneng Xuebao/Acta Energiae Solaris Sinica 39(12) (2018), pp. 3568-3576
37) R. Liu, H. Zhang, C. Deng, On the Mixed-Type Generalized Inverses of the Products of Two Operators, Filomat 33:14 (2019), 4361–4376 https://doi.org/10.2298/FIL1914361L

N. Č. Dinčić and D. S. Djordjević, *Mixed-type reverse order law for products of three operators*, Linear Algebra and its Applications, 435 (11) (2011), 2658-2673. **(M22)** https://www.sciencedirect.com/science/article/pii/S0024379511003260

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Потпис кандидата: _____

Напомена: Кандидат је дужан да попуњен, одштампан и потписан образац о испуњавању услова за избор у звање наставника достави факултету који је објавио конкурс заједно са осталом документацијом којом доказује да испуњава услове конкурса