

**Vojvođanska akademija
nauka i umetnosti**

**G O D I Š N J A K
2018.**

Novi Sad

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1. Uvod

Članovi VANU aktivno su bili uključeni u naučno-istraživački rad kao i saradnju sa naučnim i visokoškolskim institucijama u zemlji i inostranstvu. Bili su prisutni na godišnjoj skupštini Austrijske akademije nauka, a svoju delatnost su ispoljili i u okviru Aleksandar Humbolt i DAAD organizacija. Na Univerzitetu u Novom Sadu uključeni su u rad Kluba profesora emeritusa pa i u predsedništvo te asocijacije koja pruža pomoć i savete Rektor i Savetu kao najvišim organima uprave. Radili su na organizovanju predavanja eminentnih svetskih i domaćih naučnika. Posebnu aktivnost su ispoljili u radu Fondaciji Bogumil Hrabak. Štampane su dve doktorske disertacije iz oblasti društvenih nauka koje se odbranjene na Univerzitetu u Novom Sadu. Članovi akademije učestvovali su u proslavi 100 godišnjice prisajedinjenja Vojvodini matici Srbiji svojim studijama doprineli da se da još jedan istorijski osvrt na ovaj važan događaj.

Članovi akademije su u toku protekle godine radili na visokoškolskim ustanovama kao profesori ili profesori emeritusi na Univerzitetu u Novom Sadu i Univerzitetu Singidunum u Beogradu. Pored kurseva za student osnovnih i master studija održali su i predavanja na niz specijalnih kurseva na doktorskim studijama posebno iz oblasti medicine, fizike i matematike. Članovi akademije su bili i mentori doktorskih disertacija koji su 2018. Odbranjeni na Univerzitetu u Novom Sadu kao i na Građevinskom fakultetu Univerziteta Crne Gore u Podgorici. Držali su kurseve na ispoljili su aktivnost u saradnji sa drugim visokoškolskim ustanovama pre svega u susednoj Mađarskoj. Uključivanjem u međunarodne programe Evropske Unije, pre svega mobility programe Erasmus+ i Ceepus, boravili su i održali veliki broj predavanja na univerzitetima u Kaunasu (Litvanija), Temišvaru i Bukureštu (Rumunija), Segedinu (Mađarska) itd.

Broj knjiga koji su objavili članovi VANU u 2018. je četiri: od toga tri iz književnosti i jedna iz oblasti građevinarstva. Pored toga objavljena su dva poglavlja u monografijama.

Objavljeno je 8 poglavlja u monografijama i tematskim zbornicima u zemlji i inostranstvu.

Publikovali su 39 radova u međunarodnim časopisima sa SCI liste.

Održali su 18 plenarnih predavanja po pozivu u zemlji i inostranstvu. Dat je i intervju za Radio Novi Sad o rezultatima istraživanjima o vaspitnim postupcima roditelja u vođanskim porodicama.

Učestvovali su na 5 međunarodnih i 9 domaćoj konferencija.

Članovi VANU recenzirali su veći broj radova u međunarodnim i domaćim časopisima. Pomenimo samo neke: Educational Research and Review, Tanulmányok.

Stalni su članovi uređivačkih odbora međunarodnih časopisa sa SCI liste. Pored toga radili su i kao ko-urednici nekoliko bojeva međunarodnih časopisa od izuzetnog značaja.

Aktivno su radili u organizovanju 7 naučno-stručnih konferencija u zemlji i inostranstvu.

Rukovodili su i učestvovali na radu na većem broju projekata Ministarstva za nauku i tehnološki razvoj Srbije kao i međunarodnih projekata finansiranih od strane Evropske Unije.

Članovi VANU su angažovani u mnogim stručnim organima kao što su: matični odbor za fiziku Republičkog Ministarstva za prosvetu nauku i tehnološki razvoj Srbije, Nacionalni savet za visoko obrazovanje Srbije, i Odbora za priznavanje stranih diploma od strane ERIK-NARIK. U 2018. godini poneki članovi VANU preuzeli su i rukovodeće funkcije na Departmanima fakulteta Univerziteta u Novom Sadu i kadrovske komisije na Univerzitetu Singidunum.

Od najznačajnijih priznanja koja su dodeljena u ovoj godini treba pomeniti Povelju za životno delo univerzitetskih nastavnika i naučnika Vojvodine, kao i priznanje za višegodišnju saradnju Prof. Kastoriju povodom obeležavanja 80. Godišnjice postojanja Instituta za ratarstvo i povrtarstvo Univerziteta u Novom Sadu.

Pored članstva u VANU uvaženi akademici su 2018. godine primljini i u mnoge druge asocijacije i društva kao što su: Evropska akademija nauka u Belgiji, Američko društvo matematičara, Austrijsko društva matematike, Naučno društvo Srbije itd.

2. Publikacije

2.1 Objavljene knjige, monografije i poglavlja u monografijama:

- L. Cveticanin, D. Cveticanin, Acoustic Metamaterials: Theory and Application, Chapter 3, in *Acoustics and Vibrations of Mechanical Structures – AVMS-2017*, Eds. N. Herisanu and V. Marinca, Springer, 2018, 21-33.
- Göncz, L., 2018. A két- és többnyelvűség lélektani hatásaival foglalkozó kutatások néhány újabb eredménye - Some recent results of the research on psychological impacts of bi- and multilingualism, In Pasztor-Kicsi Maria (Ed.): *Kétnyelvűség – hátrány vagy esély?: tanulmányok* (pp. 27-40), Novi Sad: Univerzitet u Novom Sadu, Filozofski fakultet, Odsek za hungarologiju, ISBN 978-86-6065-499-3
- Tamaš, J., Tiski cvet, roman na srpskom, Prometej, Novi Sad 2018, p.188, ISBN 978-86-515-1438-1
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- - Grupa autora, Recepcija dela Julijana Tamaša, (zbornik, urednik prof. dr Janko Ramač), Filozofski fakultet, Novi Sad 2018, p. 319, ISBN 978-86-6065-470-2
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- H. A. Navarro, L. Cveticanin, Extension of the Hamiltonian approach with general initial conditions, *Journal of Theoretical and Applied Mechanics (PTMT)*, 56(1), 255-267, 2018.
- D. Kremer, N. Varga, M. Prica, L. Cveticanin, M. Zukovic, B. Dalmacija, Z. Corba, Application of hexagonal two dimensional electrokinetic system on the nickel contaminated sediment and modelling the transport behavior of nickel during electrokinetic treatment, *Separation and Purification Technology*, 192, 253-261, 2018.
- L. Cveticanin, M. Zukovic, I. Biro, J. Sarosi, Mathematical investigation of the stability condition and steady state position of a pneumatic artificial muscle-mass system, *Mechanism and Machine Theory*, 125, 196-206, 2018.
- L. Cveticanin, M. Zukovic, D. Cveticanin, Influence of nonlinear subunits on the resonance frequency band gaps of acoustic metamaterial, *Nonlinear Dynamics*, 93(3), 1341-1354, 2018.

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- I. Biro, L. Cveticanin, P. Szuchy P., Numerical method to determine the elastic curve of beams of variable cross-section, *Structural Engineering and Mechanics, An International Journal*, 68(6), 2018.
- L. Cveticanin, Z. Rakaric, M. Zukovic, Vibration absorber of seismic actions in buildings, *6th Int. Conf. Contemporary Achievements in Civil Engineering, Proceedings*, 20th April 2018, Subotica, pp. 125-131, 2018.
- Todorović, N., Bikit, I., Krmar, M., Mrđa, D., Hansman, J., Nikolov, J., Todorović, S., Forkapić, S., Jovančević, N., Bikit, K., Mandić, L.J., Assessment of radiological significance of building materials and residues, *Romanian Journal of Physics*, 63 (9-10), art. no. 817, 16 p., 2018.
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- Göncz, L., Generalised ethnocentrism among high-school students in a multicultural setting: the role of the degree of multilingualism, *Journal of Multilingual and Multicultural Development*, 39(3), 224-239, 2018.
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- Maksimovic, I., Putnik-Delic. M., Kastori, R., Momcilovic, V. (2018): The effect of various doses of Cd on productive features and quality of wheat. International Conference on Ecological Sciences, Rennes, France.
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- Serdar, N., Folić, R. (2018): Vulnerability and optimal probabilistic seismic demand model for curved and skewed RC bridges, Engineering Structures, 175, pp. 411-425.
- Čosić, M., Folić, R., Folić, B. (2018): Fragility and Reliability Seismic Analysis of Soil – Pile – Bridge Pier Interaction, FACTA Architecture and Civil Engineering 16(1), 93 – 111; ISSN 0354 – 4605 UDC 624.21:699.841;
- Folić, B., Folić, R. (2018): Comparative nonlinear analysis of a RC 2D frame soil-pile interaction, Building Materials and Structures (GmiK) br.1/18, pp. 63 – 89. ISSN 2217-8139 (Print); ISSN 3234-0229 (Online) UDK: 624.154.072.332; doi:10.5937/GRMK1801063F; Publikovano naporedo i na srpskom
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3 Plenarna predavanja i Predavanja po pozivu

Članovi VANU su po pozivu održali sledeća Plenarna predavanja i Predavanja po pozivu:

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- L. Cveticanin, M. Prica, Dynamics of mass-in-mass units in elastic metamaterials, *9th International Congress of Croatia Society of Mechanics, ICCSM*, Split, Croatia, Sept. 18-22, Proceedings, 2018.
- L. Cveticanin, M. Zukovic, Properties of mass-in-mass units of the elastic metamaterial, *13th Int. Sci. Conf. MMA 2018 Flexible Technologies*, Novi Sad, 28-29 Sept. 2018. Proc. 301-304, 2018.
- V. Kicinja, L. Cveticanin, Vibrational energetic harvesters: A review, *International Scientific Conference – ETIKUM 2018*, Novi Sad, 6-8. 12.2018, Proceedings, 2018.
- I. Kovacic, M. Zukovic, L. Cveticanin, Z. Rakaric, Multimedijalna i interaktivna nastava i učenje inženjerske mehanike, *XXIV Skup Trendovi razvoja: Digitalizacija visokog obrazovanja, Kopaonik*, 21-23.2.2018, Zbornik radova, 160-163, 2018.
- L. Cveticanin, P. Szuchy, Akusztikus metaanyagok es felhasználasuk a gepeszmernoki gyakorlatban, *Konferencia: III. Gepeszeti szakmakultura*, 2018. Feb.1, CD 2018. Szekció 2A, 1-5.oldal, Budapest, ISBN 978-963-9058-40-8, 2018.
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- Latinovic S., Vidne iluzije i slikarstvo. Kako vidimo ? Predavanje povodom izložbe za slepe i slabovide osobe. Prostor, oblik, dodir. Optical illusions and painting. How do we see it? Lecture within the exhibition for blind and visually impaired persons. Space, shape and touch. Galerija Matice srpske, Novi Sad, 2. februar 2018.
- Latinovic S., Svetlosti i senke. Umetničke fotografije prikazane na Medici pro Arte , u povodu 100 godina Udruženja lekara Vojvodine u Holu SNP, Novi Sad 20- 28 april 2018. Brightness and shadows. Artistic photographs presented at the exhibition Medici pro Arte, on the occasion of the 100th anniversary of The Physicians Association of Vojvodina at the National Theater Hall, Novi Sad, April 20-28, 2018.
- Latinovic S., Nestorović M., Special Education and Rehabilitation Program of Visually Impaired Children in South East European Countries Joint Congress of Hungarian ophthalmology Society and South-East European Ophthalmological Society (SEEOS): 31 May-2 June 2018, Szeged , Hungary
- Latinovic S., Cekli L., Quality of vision after intravitreal Bevacisumab and Laser Photocoagulation of patients with diabetic macular edema, Congress of Hungarian ophthalmology: (SEEOS) Society and South-East European Ophthalmological Society 31 May - 2 June 2018, Szeged , Hungary
- Latinovic S., Malignant Glaucoma or Aqueous Misdirection Syndrome -The Upcoming complication of eye surgery at XVII-th National Congress of Ophthalmology with International Participation 3 rd – 6 th Octob. 2018 Sinaia, Romania

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- E. Pap, The Future and Limits of Human, IT and AI (plenarno predavanje), Synthesis 2018, International Scientific Conference of IT and Business-Related Research, april, 2018.
- Serdar, N., Folić, R. (2018): Seismic Probabilistic Analysis of Curved and Skewed Reinforced Concrete Bridges, Plenary Lecture, X Jubilee International Scientific Conference. „Civil Engineering Design and Construction“ (Science and Practice), Sept. 20-22, 2018, Varna, Bulgaria
- Folić, R., Čokić, M. (2018): Design of fragility curves and determination of damage states for frame system RC building, Plenary Lecture, XVII Anniversary International Scientific Conference by Construction and Architecture VSU'2018, 18 - 20 October 2018, Sofia, Bulgaria, Proc. Ed. D. Partov, A. Handrulova) p. 459 – 472; ISSN 1314-071 X; www.vsu.bg/conference/2018
- Petronijević, P., Folić, R., Contribution of reinforced concrete walls to seismic safety of high reinforced concrete buildings, Conference Contemporary Civil Engineering Practice 2018, Department of Civil Engineering and Geodesy Faculty of Technical Sciences Novi Sad and Society of Civil Engineers of Novi Sad, Andrevlje, 31 Mai -1 June, 2018., pp. 113 - 138, ISBN 978-86-6022-041-9

4 Saopštenja na domaćim i međunarodnim skupovima

Svi članovi VANU učestvovali su u radu različitih skupova: kongresa, simpozijuma, konferencija, seminara i work shopova. Njihovo prisustvo i rad su bili izuzetno zapaženi. Sp

- L. Cveticanin, Elastic metamaterials with mas-in-mas oscillatory units, *World Congress on Mechanical and Mechatronics Engineering, WCMM*, Dubai UAE, 16-17 April, 2018.
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- L. Cveticanin, A. Dregelyi-Kiss, R. Horvath, A model for predicting vibration in turning process due to mass variation, *10th Int. Engineering Symposium at Banki IESB 2018*, 21 November 2018. Abstract, p. 27, 2018.
- Göncz, L., Some recent results of the research on psychological impacts of bi- and multilingualism, 26th University Linguistic Days, Between Languages – Interdisciplinary Approaches to Bi- and Multilingualism, International scientific conference, Faculty of Philosophy, Novi Sad, 6 November 2018 (p. 21), Novi Sad: Bölcsészettudományi Kar, Magyar Nyelv és Irodalom Tanszék, ISBN 978-86-6065-482-5.

- **Folić, R.**, Folić, B., Miličić, I. (2018): Strut-and-Tie model for analysis of piles cap, Conference Proceedings 6th International Conference Contemporary Achievements in Civil Engineering 2018, Faculty of Civil Engineering, Subotica, Book of Abstract, pp. 19, Full paper on CD Rom, pp. 33 - 43. (ISBN 978-86-80297-73-6)
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- Čokić, M., **Folić, R.**, Lađinović,Đ. (2018): Design of fragility curves for frame system RC buildings, Sixt International Conference Earthquake Engineering and Engineering Seismology (Ed. R. Folić), pp. 179 - 186; Kraljevo 13-16. June, 2018. UDC: 624.012.45.072.33.04; ISBN 978-86-88897-11-2.
- Petronijević, P., **Folić, R.** (2018): Role of plastic hinges in RC walls under seismic loads, Sixth International Conference Earthquake Engineering and Engineering Seismology (Ed. R. Folić), pp. 275 -284; Kraljevo 13-16. June, 2018. UDC: 624.012.4.042.7 ISBN 978-86-88897-11-2.
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5 Učešće na domaćim i međunarodnim projektima

Članovi VANU kao univerzitetski radnici bili su uključeni u istraživačke projekte koje finansira Ministarstvo za nauku i tehnološki razvoj Republike Srbije. Pored toga su radili i na većem broju međunarodnih projekata koje finansira Evropska Unija. Posebno su bili uključeni u mobility programe kao što su Erasmus i CEEPUS.

Aktivno je uključena u rad na 3 projekta koje finansira Ministarstvo nauke i tehnološkog razvoja Republike Srbije. Istraživač je na 2 internacionalna projekta Evropske Unije. i učesnik 3 'mobility' Erasmus and Ceepus programa.

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