Miroslava Jordović Pavlović, docent, doktor nauka – elektrotehnika i računarstvo

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Biografija

Lični podaci

Datum i mesto rođenja: 13.02.1974. god., Užice
Nacionalnost: srpkinja
Državljanstvo: Republika Srbija
Jezici: engleski (intermediate, B2)
Porodica: udata, dvoje dece

Akademsko angažovanje

Oktobar 2021. do danas **docent akademskih studija** za užu naučnu oblast Informacione tehnologije i sistemi, Fakultet informacionih tehnologija, Univerzitet Metropolitan

Mart 2021. do danas **profesor strukovnih studija** za uže naučne oblasti Računarsko inženjerstvo i informatika i Elektrotehničko inženjerstvo, Akademija strukovnih studija Zapadna Srbija

2018 – 2021. nastavnik veština za užu naučnu oblast Multimedijalno i računarsko inženjerstvo, Akademija strukovnih studija Zapadna Srbija, odsek Užice

2016 – 2018. nastavnik praktične nastave za užu naučnu oblast Računarsko inženjerstvo i informatika, Visoka škola strukovnih studija Užice

03. 2016 – 09. 2016. asistent za užu naučnu oblast Računarsko inženjerstvo i informatika, Visoka škola strukovnih studija Užice

Istraživačka delatnost

2018. do danas:
Rad u grupi za fotoakustiku sa dr Maricom Popović, istraživačem saradnikom INN "Vinča", dr Slobodankom Galović, naučnim savetnikom INN "Vinča", dr Mioljubom Nešićem, istraživačem saradnikom INN "Vinča" i dr Draganom Markuševim, naučnim savetnikom Instituta za fiziku u Zemunu.

Polja interesovanja: duboko učenje neuronskih mreža, mašinsko učenje, veštačka inteligencija, informacione tehnologije, elektromagnetna zračenja.

Obrazovanje

Fakultet tehničkih nauka u Novom Sadu,
doktor nauka – elektrotehnika i računarstvo, 2020.
doktorske akademske studije, studijski program Računarstvo i automatika, prosek ocena: 9.71.

Naslov doktorske disertacije: Programski okvir zasnovan na mašinskom učenju za automatizaciju obrade rezultata fotoakustičnih merenja

Elektrotehnički fakultet Beograd

diplomirani inženjer elektrotehnike, master, odsek elektronika, telekomunikacije, automatika, smer telekomunikacije (2000.), prosek ocena: 8,10.

Gimnazija Užice,

matematičko-programerski saradnik (1993.), nosilac Vukove diplome, đak generacije i đak škole.

Radno iskustvo

2005 – 2016.	nastavnik elektro grupe predmeta, Tehnička škola Užice
2001 – 2005.	inženjer za informatičku podršku, Elektrodistribucija Užice

Stručni doprinos

2015. do danas	član Tehničke komisije za ocenu studija o proceni uticaja na životnu sredinu projekta radio-baznih stanica mobilne telefonije

Projekti

2021-2022. Digital Internship Model for Higher Professional Studies, DIMPS 2020-1-RS01-KA226-HE-094527

2022. Rukovodilac nacionalnog projekta Digitalni multimedijalni vodič Starog grada Užica, finansiranog od strane Ministarstva kulture i informisanja i sufinansiranog od Grada Užica

Izdanja

Jordović Pavlović, M., Murić, M., Praktikum za laboratorijske vežbe iz Elektrotehnike sa elektronikom i Elektromagnethih zračenja, Akademija strukovnih studija Zapadna Srbija, odsek Užice, 2021., ISBN-978-86-82078-09-8

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- Structuring Machine Learning Projects, Coursera, License number: 5S72Y7EU4ATC
- Mathematics for Machine Learning: PCA, Coursera, License number: XHN82RQNUQJB
- Convolutional Neural Networks, Coursera, License number: YNNABPRCVTYD
- Licenca za nastavnika

Recenzije

Recezent međunarodne konferencije "Science and higher education in function of sustainable development", 2021., http://www.vpts.edu.rs/sed2021.html

Recenzent međunarodne konferencije "International conference on e-Learning", 2022.

Rezezent pomoćnog udžbenika Razvoj mobilnih aplikacija, autora Milorada Murića, Akademija strukovnih studija Zapadna Srbija, 2021.

Lista radova

1. **Jordović-Pavlović M.,** Kupusinac A., Djordjević K., Galović S., Markushev D., Nešić M., Popović M., Computationally intelligent description of a photoacoustic detector. Opt Quant Electron., vol. 52, no. 246, pp. 1–14, 2020. https://doi.org/10.1007/s11082-020-02372-y, **[M22]**

2. **Jordović-Pavlović M.**, Stanković M., Popović M., Ćojbašić Ž., Galović S., Markushev D., The application of artificial neural networks in solid-state photoacoustics for the recognition of microphone response effects in the frequency domain. J. Comput. Electron., vol. 19, no. 3, pp. 1268–1280, 2020. https://doi.org/10.1007/s10825-020-01507-4, **[M23]**

3. **Jordović-Pavlović M**., Markushev D., Kupusinac A., Djordjević K., Nešić M., Galović S., Popović M., Deep Neural Network Application in the Phase-Match Calibration of Gas – Microphone Photoacoustics. Int J Thermophys, vol. 41, no. 6, pp. 1–10, 2020. https://doi.org/10.1007/s10765-020-02650-7, **[M23]**

4. Djordjević, K.L., **Jordović-Pavlović, M.I.,** Ćojbašić, Ž.M. *et al.* Influence of data scaling and normalization on overall neural network performances in photoacoustics. *Opt Quant Electron* **54**, 501 (2022). https://doi.org/10.1007/s11082-022-03799-1, **[M22]**

5. Nešić M., Popović M., Galović S., Đorđevic K., **Jordović-Pavlović M**., Miletić V., Markushev D., Estimation of linear expansion coefficient and thermal diffusivity by photoacoustic numerical self-consistent procedure, Journal of Applied Physics, vol.131, issue 10, 2022., https://doi.org/10.1063/5.0015898, **[M22]**

6. Popović M., Markushev D., Nešić M., **Jordović-Pavlović M**., Galović S., Optically induced temperature variations in a two-layer volume absorber including thermal memory effects. Journal of Applied Physics, vol.129, issue 1, 2021., https://doi.org/10.1063/5.0015898, **[M22]**

7. Nešić M., Popović M., Đorđevic K., Miletić V., **Jordović-Pavlović M.,** Markušev D. and Galović S., Development and comparison of the techniques for solving the inverse problem in photoacoustic characterization of semiconductors. Opt Quant Electron **53,** no. 7, p. 381 (2021). https://doi.org/10.1007/s11082-021-02958-0, **[M22]**

8. Djordjevic, K.L., Galovic, S.P., **Jordovic-Pavlovic, M.I.** et al. Photoacoustic optical semiconductor characterization based on machine learning and reverse-back procedure. Opt Quant Electron **52,** 247 (2020). https://doi.org/10.1007/s11082-020-02373-x, **[M22]**

9. Djordjevic, K.L., Galovic, S.P., **Jordovic-Pavlovic, M.I.** et al. Improvement of Neural Networks Applied to Photoacoustic Signals of Semiconductors with Added Noise. Silicon, (2020). https://doi.org/10.1007/s12633-020-00606-y, **[M22]**

10. Nešić M., Popović M., Đorđevic K., Miletić V., **Jordović-Pavlović M.,** Markušev D. and Galović S., Development and comparison of the techniques for solving the inverse problem in photoacoustics**,** Book of abstracts - The Seventh International School and Conference on Photonics, 26 August – 30 August 2019, Belgrade, Serbia, **[M32]**

11. **Jordović-Pavlović M.,** Kupusinac A., Popović M., Ćojbašić Ž., Galović S., Markushev D., Computational intelligence based method for efficient classification of microphones. In: Proceedings of 12th international scientific conference science and higher education in function of sustainable development—SED, (2021), **[M33]**

12. **Jordović-Pavlović M**., Kupusinac A., Galović S., Markushev D., Nešić M., Djordjević K., Popović M., Potential of Using Simulated Data in Processing Photoacoustic Measurement Data. In: Proceedings of 8th International Conference on Electrical, Electronic, and Computing Engineering (IcETRAN), ISBN 978-86-7466-894-8 (2021), **[M33]**

13. **Jordović-Pavlović M.,** Bogicević Z., Murić M., Savić B., Marinković T., Optimal virtual internship model for vocational studies. In: Proceedings of 12th International Conference on eLearning, (eLearning 2021), **[M33]**

14. Đorđević K., **Jordović-Pavlović M.,** Ćojbašić Ž., Galović S., Popović M., Nešić M., Markušev D., Influence of data scaling and normalization on overall neural network performances in photoacoustics, Book of abstracts - The Eight International School and Conference on Photonics, 23 August – 27 August 2021, Photonica 2021, Belgrade, Serbia, **[M34]**

15. **Jordović-Pavlović M.,** Kupusinac A., Popović M., Classification model for microphone type recognition. In: Proceedings of 11th international scientific conference science and higher education in function of sustainable development—SED, ISBN 978-86-83573-95-0 (2019), **[M33]**

16. **Jordović-Pavlović M**., Markushev D., Popović M., Galović S., Deep learning in development of model-dependent diagnostic: recognition of detector characteristics in measured responses. In: Proceedings of 6th International Conference on Electrical, Electronic, and Computing Engineering (IcETRAN), ISBN 978-86-7466-785-9 (2019), **[M33]**

17. **Jordović-Pavlović M.**, Popović M., Galović S., Djordjević K., Nešić M., Markushev K. D., Markushev D., The reduction of neural network input vector for efficient optimization of photoacoustic calibration, Book of Abstracts – ICPPP21, Moscow, 2022, **[M34]**

18. **Jordović-Pavlović M.**, Popović M., Galović S., Djordjević K., Nešić M., Markushev K. D., Markushev D., Dimensionality Reduction In Computationally Inteligent Photoacoustic Measurement Data Processing, Book of Abstracts – 1st Serbian International Conference on Applied Artificial Intelligence (SICAAI), Kragujevac, 2022, **[M34]**

19. **Jordović-Pavlović M.**, Markushev D., Kupusinac A., Djordjević K., Nešić M., Galović S., Popović M., Deep neural network applied in calibration of transmission frequency gas-microphone photoacoustic, Book of Abstracts – ICPPP20, Moscow, 2019, **[M34]**

20. **Jordović-Pavlović M.,** Kupusinac A., Đorđević K., Galović S., Markušev D. Nešić M., Popović M., Computationally intelligent characterization of a photoacoustic detector, Book of abstracts - The Seventh International School and Conference on Photonics with Symposium Machine Learning with Photonics, 26 August – 30 August 2019, Belgrade, Serbia, **[M34]**

21. Popović M., Markushev D., **Jordović-Pavlović M**., Djordjević K., Miletić V., Nešić M., Galović S., Influence of protection layer on photoacoustic response of polymer samples — theory and experiment, Book of Abstracts – ICPPP20, Moscow, 2019, **[M34]**

22. **Jordović-Pavlović M**., Kupusinac A., Djordjević K., Galović S., Markushev D., Nešić M., Popović M., Computationally intelligent estimation of properties for polymer microphone diaphragms by photoacoustic measurement, Book of abstracts - The 20th Symposium on Condensed Matter Physics - SFKM 2019, Belgrade – Serbia, **[M64]**

23. Đorđević K., Galović S., **Jordović-Pavlović M,** Nešić M, Popović M, Žarko Ćojbašić **i** Markušev D, Neural network based reverse-back procedure for photoacoustic electronic characterization of semiconductors, Book of abstracts - The 20th Symposium on Condensed Matter Physics - SFKM 2019, Belgrade – Serbia, **[M64]**

24. **Jordović Pavlović, M.,** Knežević,D., Petrović,S., Data visualization and exploration of students database. In: Proceedings of 10th International Conference Science and Higher Education in Function of Sustainable Development, Užice, Srbija, 2017, **[M33]**

25. Djuričić Milan, Djuričić Milutin R, **Jordović-Pavlović Miroslava,** Interconnectedness of innovations and transformational leadership. In: Insights and Potential Sources of New Entrepreneurial Growth, Proceedings Paper, str. 129-145, 2017, **[M33]**

26. S. Simović, **Jordović-Pavlović, M**., Representation of e-communication in offer of Zlatibor as a tourist destination. In: Proceedings of 3rd International Conference: " Higher Education in Function of development of tourism in Serbia and Western Balkans", pp. 377-388, 2016, **[M33]**

27. **Jordović Pavlović, M.**, Đuričić, M., Reinženjering procesa obrazovno- vaspitnog rada u postmodernom dobu. In: Proceedings of 6th International Conference Science and Higher Education in Function of Sustainable Development, Užice, Srbija, pp. 5-5, 5-57, 2013, **[M33]**

28. Paunović, L., Andrić, S., **Jordović Pavlović, M**., Veljović, A. Primena koncepta semantičkog web-a u e-učenju, In: Proceedings of 2nd National Conference with international participation, Business Process Reengineering in Education, pp. 268-275, 2013, **[M33]**

29. **Jordović Pavlović, M**., Ranđić, S., Pavlović, J., Kolaborativni softver kao podrška poslovnim procesima srednje škole, Zbornik radova naučno – stručnog skupa sa međunarodnim učešćem Tehnika i informatika u obrazovanju, Čačak, Srbija, pp. 282-287, 2012, **[M33]**

30. **Jordović Pavlović, M**., Ranđić, S., Paunović, L., Information technologies in contemporary school management system, In: Proceedings of XIII International Symposium SymORG, Innovative Management & Business Performance, Zlatibor, Srbija, pp. 1930-1937, 2012, **[M33]**

31. **Jordović Pavlović, M**., Ranđić, S. and Paunović, L., Information technologies in contemporary school management system, Emerald Emerging Markets Case Studies, vol. 4 no. 6., 2014, https://doi.org/10.1108/eemcs-11-2012- 0195
32. **Jordović Pavlović, M**., Modern educational technology: some aspects of multimedia application in teaching, In: Proceedings of 5th International Conference Science and Higher Education in Function of Sustainable Development, Užice, Srbija, pp. 81-86, 2012, **[M33]**

33. **Jordović Pavlović, M**., Advantages and disadvantages in implementation of smart cards in payment system, In: Proceedings of 4th International Conference Science and Higher Education in Function of Sustainable Development, Užice, Srbija, pp. 65-70, 2011, **[M33]**

34. Stričić, B., **Jordović-Pavlović, M**., Živanov, M., Slankamenac, M., A cathodic protection of the underground pipe sistem against corrosion. In: Proceedings of 1st International Conference Research people and actual tasks on multidisciplinary sciences, Lozenec, Bulgaria, pp. 301-309, 2010, **[M33]**

35. **Jordović Pavlović, M**., Murić, M., Praktikum za laboratorijske vežbe iz Elektrotehnike sa elektronikom i Elektromagnethih zračenja, Akademija strukovnih studija Zapadna Srbija, odsek Užice, 2021., ISBN-978-86-82078-09-8

36. Stankov S., Jordović Pavlović M., Covid19 Tourism And Modern Trend In The Application Of Information Technologies, International Scientific Conference "The Future of Tourism", (2022) **[M14]**