Dušan Nedeljković, M.Sc.M.E.

Personal data

Address:
University of Belgrade
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Nationality:
Serbian

Date of birth:
December 3rd, 1992

Research or academic title
Teaching and Research Assistant

Research field/area
Mechanical engineering /
Machine Learning, Intelligent
Sensing Systems, Cyber Physical
Systems, Industrial Internet of
Things, Distributed Control,
Intelligent Manufacturing Systems,
and non-stationary signal
processing.

Languages
Serbian, English

Skills
- MATLAB,
- C++,

Education

Oct. 2017 - Present	**Doctoral academic studies (Ph.D., Dr.-Eng.)** University of Belgrade - Faculty of Mechanical Engineering, Department of Production Engineering Dissertation title (initial): Distributed control of reconfigurable production resources
2016	**Master of Science (M.Sc.) in Mechanical Engineering** University of Belgrade - Faculty of Mechanical Engineering, Department of Production Engineering Thesis title: Development of Human-Machine Interface for selected production resources
2014	**Bachelor of Science (B.Sc.) in Mechanical Engineering** University of Belgrade - Faculty of Mechanical Engineering, Department of Production Engineering Thesis title: CAD/CAM systems

Employment

Jan. 2018 - Present	**Teaching and Research Assistant** University of Belgrade - Faculty of Mechanical Engineering, Department of Production Engineering Laboratory for Manufacturing Automation
Nov. 2016 – Jan. 2018	**Servoteh d.o.o.** Complete Automation: - Design of automatic machines and production lines - Design of hydraulic installations, standard and special hydraulic/pneumatic components

Awards and prizes

- Award for best students of the generation in 2014., 2015. and 2016.
- The recipient of a scholarship from the Ministry of Education, Science and Technological Development (2011-2016.).

- Python,
- Creo,
- Inventor,
- Any Logic,
- Arena,
- MS Office (Word, Excel, Power Point),
- SolidWorks,
- CX Programmer.

Number of citations (excluded self-citations)

16

Hirsch index

2

Certificates

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Products, services (datasets, software)

1. Jarakovic, I., Jerotic, M., **Nedeljkovic**, **D**., et al., *Hydraulic press 1000t for upsetting and piercing operations with a maximum pressure of 300 bar*, Servoteh, Belgrade, Serbia, 2017.
2. Jarakovic, I., Jerotic, M., **Nedeljkovic**, **D**., et al., *Hydraulic press 350t for deep drawing operationswith a maximum pressure of 300 bar*, Servoteh, Belgrade, Serbia, 2017.

Publications (selected)

1. **Nedeljkovic**, **D**., Jakovljevic, Z., Miljkovic, Z., **The detection of sensor signal attacks in industrial control systems**, FME Transactions, 48 (1) (2020), pp. 7-12, ISSN: 1451-2092, DOI:10.5937/fmet2001007N

2. **Nedeljkovic**, **D**., Jakovljevic, Z., Miljkovic, Z., Pajic, M., **Detection of cyber-attacks in electro-pneumatic positioning system with distributed control**, Proceedings of 27th Telecommunications forum (TELFOR 2019), Belgrade, Serbia, pp. 1-5, Nov. 2019, ISBN: 978-1-7281-4789-5

3. **Nedeljkovic**, **D**., Kokotovic, B., Jakovljevic, Z., **Comparative analysis of Discrete Wavelet Transform and Singular Spectrum Analysis in signal trend identification**, Proceedings of International Conference on Innovative Technologies (IN-TECH 2019), Belgrade, Serbia, Sept. 2019, pp. 48 - 51, ISSN: 0184-9069

4. **Nedeljkovic**, **D**., Petrovic, M., Jakovljevic, Z., **Comparison of Particle Swarm and Ant Colony Optimization in wireless sensor network routing**, Proceedings of International Scientific Conference ETIKUM, Novi Sad, Serbia, Dec. 2018, pp. 33 - 36, ISBN: 978-86-6022-123-2

5. **Nedeljkovic**, **D**., Milovanovic, M., Jakovljevic, Z., **Prototype of electro-pneumatic positioning system**, Proceedings of 41st JUPITER Conference (in Serbian), Belgrade, Serbia, June 2018, pp. 4.19 - 4.24, ISBN: 978-86-7083-978-6

Projects and activities

2018 - Present	Babić, B., Miljković, Z., Nedeljković, D., et al. *An Innovative, Ecologically Based Approach to the Implementation of Intelligent Manufacturing Systems for the Production of Sheet Metal Parts*, Grant: TR-35004, Project funded by Ministry of Education, Science and Technological Development of the Government of the Republic of Serbia