Aleksandar Jokić, M.Sc.M.E.

Personal data

Address:
University of Belgrade,
Faculty of Mechanical Engineering,
Kraljice Marije 16,
11120 Belgrade 35, Serbia

E-mail:
ajokic@mas.bg.ac.rs

Nationality:
Serbian

Research or academic title
Teaching and Research Assistant

Research field/area
Mechanical engineering /
Robotics, Visual Servoing,
Deep Machine Learning, Swarm
Intelligence Optimization.

Languages
Serbian, English

Skills
- MS Office (Word, Excel, Power Point),
- MATLAB,
- C,
- SolidWorks, Inventor,
- AutoCAD,
- CorelDRAW, Visio,
- AnyLogic.

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): Visual Control of Mobile Robot Based on Biologically Inspired Artificial Intelligence Techniques
2017	**Master of Science (M.Sc.) in Mechanical Engineering** University of Belgrade - Faculty of Mechanical Engineering, Department of Production Engineering Thesis title: Visual Servoing of Intelligent Mobile Robot used for Scheduling of Internal Transport
2015	**Bachelor of Science (B.Sc.) in Mechanical Engineering** University of Belgrade - Faculty of Mechanical Engineering, Department of Production Engineering Thesis title: CAD/CAM Design of the Lathe Tail Stock

Employment

Apr. 2019 - Present	**Teaching Assistant (since October 2021)** University of Belgrade - Faculty of Mechanical Engineering, Department of Production Engineering Laboratory for Industrial Robotics and Artificial Intelligence (ROBOTICS & AI)

Awards and prizes

- Awards received on the day of the Faculty of Mechanical Engineering for exceptional success achieved at the first and second year of Master Academic Studies (2015/16 and 2016/17 year).
- The recipient of the scholarship sponsored by Ministry of Education, Science and Technological Development in the school years 2016/17 and 2017/18.

Number of citations (excluded self-citations)

41

Hirsch index

2

Products, services (datasets, software)

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Certificates

- How things work, University of Virginia, 2015.
- The Arduino Platform and C Programming, University of California, 2016.
- Robotics: Vision Intelligence and Machine Learning, University of Pennsylvania, 2017.

Publications (selected)

1. Petrović, M., Miljković, Z. and **Jokić, A**., **A novel methodology for optimal single mobile robot scheduling using whale optimization algorithm**, Applied Soft Computing, 81 (2019), 105520, DOI: 10.1016/j.asoc.2019.105520
2. **Jokić, A.,** Petrović, M., Miljković, Z., **Methods for visual servoing of robotic systems: A state of the art survey**, (in Serbian) Journal TEHNIKA, 67 (6) (2018), pp. 801-816, ISSN 0040-2176, eISSN 256-3086,
3. **Jokić, A.,** Petrović, M., Miljković, Z., **Implementation of Image-based visual servoing for nonholonomic mobile robot control,** First International Student Scientific Conference "MULTIDISCIPLINARY APPROACH TO CONTEMPORARY RESEARCH", Central Institute for Conservation, ISBN 978-86-6179-056-0, pp. 223-235, Belgrade, Serbia, 25-26 November, 2017.
4. Petrović, M., **Jokić, A.,** Miljković, Z. **Single mobile robot scheduling: a mathematical modeling of the problem with real-world implementation,** Proceedings of the 13th International Scientific Conference MMA 2018 - Flexible Technologies, ISBN 978-86-6022-094-5, pp. 175-178, Novi Sad, Serbia, 27-28 September, 2018.
5. Đokić, L., **Jokić, A.,** Petrović, M., Miljković, Z., **Stereo vision-based algorithm for control of nonholonomic mobile robot**, Proceedings of the Third International Student Scientific Conference "MULTIDISCIPLINARY APPROACH TO CONTEMPORARY RESEARCH", Central Institute for Conservation, In Press, Belgrade, Serbia, 21 December, 2019.

Projects and activities

2018-2019	Babić, B., Miljković, Z., Jokić, A., 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