

Dr. Živana Jakovljević



Personal data

Address:

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

Phone:

+381 11 330 22 64

E-mail:

zjakovljevic@mas.bg.ac.rs

Nationality:

Serbian

Date of birth:

November 27th, 1975

Research or academic title

Full Professor

Research field/area

Mechanical engineering /
Machine Learning, Intelligent
Sensing Systems, Cyber Physical
Systems, Industrial Internet of
Things, Distributed Control,
Intelligent Manufacturing Systems,
3D vision systems, and non-
stationary signal processing.

Languages

Serbian, English, French, German

Education

- 2010** | **Doctor of technical science (PhD-Mech.Eng.)**
University of Belgrade - Faculty of Mechanical
Engineering,
Department of Production Engineering
Dissertation title: Learning and context sensitive
recognition of part mating process in robotized
assembly
- 2004** | **Magister Scientiae – MSc-Mech.Eng. (four
semesters & thesis-research prerequisite to
PhD)**
University of Belgrade - Faculty of Mechanical
Engineering,
Department of Production Engineering
- 1999** | **Dipl.-Ing. (ten semesters with diploma work)**
University of Belgrade - Faculty of Mechanical
Engineering,
Department of Production Engineering

Employment

- 1999 - Present** | **Full Professor (since 2020)**
University of Belgrade - Faculty of Mechanical
Engineering,
Department of Production Engineering
Laboratory for Manufacturing Automation

Publications (selected)

- Jakovljevic, Z.**, Lesi, V., Mitrovic, S., Pajic, M.,
**Distributing Sequential Control for
Manufacturing Automation Systems**, IEEE
Transactions on Control Systems Technology, In
press (2019), DOI:10.1109/TCST.2019.2912776
- Lesi, V., **Jakovljevic, Z.**, Pajic, M.,
**Reliable Industrial IoT-Based Distributed
Automation**, Proceedings of the ACM/IEEE
Conference on Internet of Things Design and
Implementation (IoTDI), CPS-IoT Week, Montreal,
Canada, (15-18 April. 2019), pp. 95-105,
DOI:10.1145/3302505.3310072
- Majstorovic, V., Stojadinovic, S., **Jakovljevic, Z.**,
Zivkovic, S., Djurdjanovic, D., Kostic, J.,
Gligorijevic, N.,
**Cyber-Physical Manufacturing Metrology
Model (CPM3) - Big Data Analytics Issue**,

**Number of citations
(excluded self-citations)**

495

Hirsch index

11

Certificates

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Other information

- Pilipovic, M., **Jakovljevic, Z.**, Manufacturing Automation, Faculty of Mechanical Engineering, Belgrade, 2017 (university textbook in Serbian);
- **Jakovljevic, Z.**, Petrovic, P. B., Contact States Recognition in Robotized Assembly, Faculty of Mechanical Engineering, Belgrade, 2011 (scientific monograph in Serbian).

Procedia CIRP, 72 (2018), pp. 503-508, ISSN 2212-8271, DOI:10.1016/j.procir.2018.03.091

4. **Jakovljevic, Z.**, Puzovic, R., Pajic, M., **Recognition of Planar Segments in Point Cloud based on Wavelet Transform**, IEEE Transactions on Industrial Informatics, 11 (2) (2015), pp. 342-352, ISSN:1551-3203, DOI:10.1109/TII.2015.2389195
5. **Jakovljevic, Z.**, Petrovic, P., B., Mikovic, V., Dj., Pajic, M., **Fuzzy inference mechanism for recognition of contact states in intelligent robotic assembly**, Journal of Intelligent Manufacturing, 25 (3) (2014), pp. 571-587, ISSN: 0956-5515, DOI:10.1007/s10845-012-0706-x

Projects and activities (selected)

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| 2018 - Present | Babić, B., Miljković, Z., Jakovljević, Ž., et al. <i>An Innovative, Ecologically Based Approach to the Implementation of Intelligent Manufacturing Systems for the Production of Sheet Metal Parts</i>, Grant: TR-35004, Project funded by Ministry of Education, Science and Technological Development of the Government of the Republic of Serbia |
| 2011 - Present | <i>Application of Advanced Technologies and CAD Systems in Dental Restorations Modelling and Manufacturing</i>, Grant: TR-35020, Project funded by Ministry of Education, Science and Technological Development of the Government of the Republic of Serbia |
| 2011 - 2017 | <i>Smart Robotic Systems for Customized Manufacturing</i>, Grant: TR-35007, Project funded by Ministry of Education, Science and Technological Development of the Government of the Republic of Serbia |

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|-----------------------|--|
| 2008 - 2010 | <i>Application of Intelligent Sensing Systems in Integrated Automation of Real and Virtual Processes within Manufacturing Enterprise</i> , Grant: MA 14035, Project funded by Ministry of Science and Technological Development of the Government of the Republic of Serbia |
| 2016 - Present | European Commission H2020 Expert for evaluation and monitoring of proposals in ICT |

Products, services (datasets, software)

1. Milković, D., Simić, G., Tanasijević, J., Lučanin, V., **Jakovljević, Ž.**, *Laser based system for measurement of the wheel-rail angle of attack*, University of Belgrade, Faculty of Mechanical Engineering, 2015.
2. Jugović, Z., **Jakovljević, Ž.**, Bjekić, M., Božić, M., Rosić, M., *Four axis NC machine for welding*, University of Belgrade, Faculty of Mechanical Engineering, 2014.
3. Petrović, P., B., Miković, V., **Jakovljević, Ž.**, *Portable micro-robot for welding and plasma cutting*, University of Belgrade, Faculty of Mechanical Engineering, 2010.
4. Petrović, P., B., Ilić, B., **Jakovljević, Ž.**, Kokotović, B., Pilipović, M., *Laser-inductive measurement system for thickness measurement and texture scanning of rubberized textile cord in calendaring lines in rubber processing industry*, University of Belgrade, Faculty of Mechanical Engineering, 2007.
5. Petrović, P., B., **Jakovljević, Ž.**, Miković, V., Pilipović, M., *Robotic laser measurement system for dimensional metrology in production lines and reverse engineering*, University of Belgrade, Faculty of Mechanical Engineering, 2009.