Dr. Uglješa Bugarić

Personal data

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

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ubugaric@mas.bg.ac.rs

Nationality:
Serbian

Date of birth:
November 15th, 1965

Research or academic title

Full Professor

Research field/area

Mechanical engineering /
Education and research in the field of Industrial Engineering, Operation research - simulation, prediction, multi criteria decision making, artificial intelligence, machine learning, neural networks queueing theory, Design of logistic, distribution, warehouse and transport systems, Maintenance management.

Education

2002 **Doctor of technical science (PhD-Mech.Eng.)**
University of Belgrade - Faculty of Mechanical Engineering,
Department of Material Handling, Constructions and Logistics
Dissertation title: Modelling of non-stationary work regimes of transportation systems devices using queueing theory

1996 **Magister Scientiae – MSc-Mech.Eng. (four semesters & thesis-research prerequisite to PhD)**
University of Belgrade - Faculty of Mechanical Engineering,
Department of Material Handling, Constructions and Logistics

1990 **Dipl.-Ing. (ten semesters with diploma work)**
University of Belgrade - Faculty of Mechanical Engineering,
Department of Process and Environmental Engineering

Employment

1992 - Present **Full Professor (since 2013)**
University of Belgrade - Faculty of Mechanical Engineering,
Department of Industrial Engineering
Laboratory for Terotechnology

Publications (selected)

1. Djenadic, S., Ignjatovic, D., Tanasijevic, M., **Bugaric, U.**, Jankovic, I., Subaranovic, T., **Development of the Availability Concept by Using Fuzzy Theory with AHP Correction, a Case Study: Bulldozers in the Open-Pit Lignite Mine**, Energies, 12(21) (2019), 4044, pages: 18, DOI:10.3390/en12214044
2. Tanasijevic, M., Jovancic, P., Ivezic, D., **Bugaric, U.**, Djuric, R., **A fuzzy-based decision support model for effectiveness evaluation – a case study of examination of bulldozers**, International Journal of Industrial Engineering: Theory, Applications and Practice, 26 (6) (2019), pp. 878-897, online ISSN: 1943-670X

Languages

Serbian, English, Russian

Number of citations (excluded self-citations)

159

Hirsch index

8

Certificates

- Certified (responsible) contractor engineer, certificate issued by Serbian chamber of engineers, Serbia, 2015.
- Professional examination of the practical training of persons responsible for performing and testing of work equipment, certificate issued by Ministry of work and social politics, Serbia, 2010.
- Professional examination of the practical training for occupational safety and health at work, certificate issued by Ministry of work and social politics, Serbia, 2010.
- Use of risk-based approaches in inspection and maintenance of petrochemical plants (RBI/RCM), certificate issued by Steinbeis University Berlin, 2006.
- Certified (responsible) contractor designer, certificate issued by Serbian chamber of engineers, Serbia, 2003.
- Professional examination of the practical training for graduate mechanical engineer, certificate issued by Ministry of buildings, Serbia, 2000.

3. Petrovic, A., Jovanovic, M., Genic, S., **Bugaric, U.**, Delibasic, B.,
Evaluating performances of 1-D models to predict variable area supersonic gas ejector performances, Energy, 163 (2018), pp. 270-289, ISSN 0360-5442, DOI:10.1016/j.energy.2018.08.115
4. Gerasimovic, M., **Bugaric, U.**,
Enrollment management model: Artificial neural networks versus logistic regression, Applied artificial intelligence, 43 (2018), pp. 153-164, ISSN 0883-9514, DOI:10.1080/08839514.2018.1448146
5. Gerasimovic, M., Stanojevic, Lj., **Bugaric, U.**, Miljkovic, Z., Veljovic, A.,
Using Artificial Neural Networks for Predictive Modeling of Graduates' Professional Choice, New Educational Review, 23 (1) (2011), pp. 175-188, http://www.educationalrev.us.edu.pl/volume23.htm

Projects and activities (selected)

2016 - 2017 ***Smart Table Tennis Tracking - S3T***, COLLABORATIVE GRANT SCHEME Program, Co-Investors: Innovation fund Serbia & Gecko Solutions d.o.o.

2011 - 2019 Babić, B., Miljković, Z., Bugarić, U., 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

2011 - 2018 ***Development, design and implementation of modern strategies of integrated control of operative work and maintenance of vehicles and mechanization in auto-transport, mining and energetic,***
Grant: TR-35030,
Project funded by Ministry of Education, Science and Technological Development of the Government of the Republic of Serbia

Other information

- Bugarić, U., Petrović D., Modeling of servicing systems, Faculty of Mechanical Engineering, Belgrade, 2011., p. 391. (ISBN: 978-86-7083-749-2) (in Serbian);
- Bugarić, U.: Methodology for analysis of single position machines work, Zadužbina Andrejević, Belgrade, 2003., p. 122. (ISBN 86-7244-369-1) (in Serbian).

2008 - 2011 ***Management of production by orders***, Grant: TR-14011, Project funded by Ministry of Education, Science and Technological Development of the Government of the Republic of Serbia

2008 - 2011 ***Development and application of new technologies and models in the field of control, use, and maintenance of road and rail vehicles and machinery to support ICT***, Grant: TR-14021, Project funded by Ministry of Education, Science and Technological Development of the Government of the Republic of Serbia

Products, services (datasets, software)

- Bugarić, U., Brkić, A., Tošić, S.: **Software for design of electric elevators**, Faculty of Mechanical engineering, Belgrade, 1998.
- Bugarić, U.: **Software for determination of equipment and operations layout on multi production line**, Faculty of Mechanical engineering, Belgrade, 1994.