

Dr. Radiša Jovanović



Personal data

Address:

University of Belgrade
Faculty of Mechanical Engineering,
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Nationality:

Serbian

Date of birth:

May 8th, 1969

Research or academic title

Full Professor

Research field/area

Mechanical engineering / Control systems, nonlinear control systems, tracking control algorithms, machine learning, fuzzy logic and control, neural networks and artificial intelligence, intelligent control systems, optimization algorithms, metaheuristics.

Languages

Serbian, English, Russian

Number of citations

(excluded self-citations)

Education

- 2002** | **Doctor of technical science (PhD-Mech.Eng.)**
University of Belgrade - Faculty of Mechanical Engineering,
Department of Automatic Control
Dissertation title: Synthesis of fuzzy tracking control algorithms of electrohydraulic servosystems
- 1996** | **Magister Scientiae – MSc-Mech.Eng. (four semesters & thesis-research prerequisite to PhD)**
University of Belgrade - Faculty of Mechanical Engineering,
Department of Automatic Control
- 1990** | **Dipl.-Ing. (ten semesters with diploma work)**
University of Belgrade - Faculty of Mechanical Engineering,
Department of Automatic Control

Employment

- 1999 - Present** | **Full Professor (since 2021)**
University of Belgrade - Faculty of Mechanical Engineering,
Department of Automatic Control
Laboratory for Intelligent Control Systems

Publications (selected)

1. Sretenović, A., **Jovanović, R.**, Novaković, M. V., Nord, M. N., Živković, D. B., **Support vector machine for the prediction of heating energy use**, Thermal Science, 22 (4) (2018), pp. 1171-1181, DOI:10.2298/TSCI170526126S, (Science Citation Index-Web of Science® – IF = **1.431 (2017)**); source **KoBSON**)
2. **Jovanovic, R.**, Božić, I., **Feedforward neural network and ANFIS-based approaches to forecasting the off-cam energy characteristics of Kaplan turbine**, Neural Computing and Applications, 30 (8) (2018), pp. 2569-2579, ISSN 0941-0643, DOI:10.1007/s00521-017-2843-9, (Science Citation Index-Web of Science® – IF = **4.213 (2017)**); source **KoBSON**)

255

Hirsch index

6

Certificates

- License of certified (responsible) designer for thermal engineering, thermal power engineering, process and gas engineering 330 E622 07.
- License of certified (responsible) contracting engineer for thermal energy, thermodynamics, process and gas engineering 430 B243 07.

Other information

- Jovanović, R., **Matlab and Simulink in Automatic Control** (university textbook in Serbian), Faculty of Mechanical Engineering, University of Belgrade, Serbia, 2016;
- Excellent knowledge of C, C++, Python, Octave, MATLAB & Simulink, LaTeX, LabView, Mathematica, Simatic Step7, ETS, MS Office (Word, Excel, Power Point).

3. **Jovanović, R., Sretenović, A., Živković, B., Multistage ensemble of feedforward neural networks for prediction of heating energy consumption**, Thermal Science, 20 (4) (2016), pp. 1321-1331, ISSN 0354-9836, DOI:10.2298/TSCI150122140J, (**Science Citation Index-Web of Science® – IF = 1.093 (2016)**); source **KoBSON**)
4. **Jovanovic, R., Sretenovic, A., Various multistage ensembles for prediction of heating energy consumption**, Modeling Identification and Control, 36 (2) (2015), pp. 119-132, ISSN 1890-1328, DOI:10.4173/mic.2015.2.4, (**Science Citation Index-Web of Science® – IF = 0.250 (2015)**); source **KoBSON**)
5. **Jovanović, R., Sretenović, A., Živković, B., Ensemble of various neural networks for prediction of heating energy consumption**, Energy and Buildings, 94 (2015), pp. 189-199, ISSN 0378-7788, DOI:10.1016/j.enbuild.2015.02.052, (**Science Citation Index-Web of Science® – IF = 2.973 (2015)**); source **KoBSON**).

Projects and activities (selected)

- 2018** | Božić, I., Petković, A., Jovanović, R., Ilić, J., *Intra-station regimes optimization of Vlasinske hydropower plants-optimization and development software system using artificial intelligence methods*, Report Nr.11-01-05/2018, University of Belgrade - Faculty of Mechanical Engineering, Hidromaskonsalting, Belgrade
- 2018-2019** | Babić, B., Miljković, Z., Jovanović, R., 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

- 2015 Jovanović, R., Sretenović A., Živković, B., ***Ensemble of various neural networks for prediction of heating energy consumption***, Technical Report, University of Belgrade - Faculty of Mechanical Engineering, Kraljice Marije 16, 11120 Belgrade, Serbia
- 2013 Jovanović, R., Ribar, Z., Nauparac, D., ***Computer control system of shaking table: control algorithm, softwer system and realization***, Technical Report, University of Belgrade - Faculty of Mechanical Engineering, Kraljice Marije 16, 11120 Belgrade, Serbia
- 2010 Savić, B., Jovanović, R., Ribar, Z., ***Softwer system "DIORES" for diagnosis of the operation, economy and operational state of steam power plants***, Technical Report, University of Belgrade - Faculty of Mechanical Engineering, Kraljice Marije 16, 11120 Belgrade, Serbia

Products, services (datasets, software)

1. Božić, I., Petković, A., Jovanović, R., Ilić, J., **Software system for optimization of intra-station regimes of the Vlasinske hydropower plants based on artificial intelligence methods** (*software* with citation in technical report Nr.11-01-05/2018, University of Belgrade - Faculty of Mechanical Engineering, and Hidromaskonsalting, Belgrade, 2018.
2. Jovanović, R., Ribar, Z., Nauparac, D., **Computer control system of shaking table** (*software* with citation in technical report No.825/3, 18.04.2013., University of Belgrade - Faculty of Mechanical Engineering, Belgrade, Serbia, 2013.)
3. Savić, B., Jovanović, R., Ribar, Z., **DIORES - softwer system for diagnosis of the operation, economy and operational state of steam power plants** (*software* with citation in projects EE107-150A and 200105 - Ministry of Science and Technological Development - Government of the Republic of Serbia)