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Naslov doktorske disertacije: "Unapređenje hibridizacijom metaheuristika inteligencije rojeva za rešavanje problema globalne optimizacije".

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Industrijski sertifikati

Microsoft: MOS 2007 Master, MOS 2013 Master, MCSA Windows Server 2008, MCITP Windows Server 2008, MCSA Windows Server 2012

CompTIA: A+ ce, Network + ce, Security + ce, Linux + ce

HP: ATA – Connected Devices, ATA – Networks, ATA – Servers & Storage, ATA – Cloud, ATA – IT for Business, ATA – IT Architect

Oracle: OCA SQL

Ostalo: Oracle Academy instructor - Java, Database Design, SQL Programming, PL/SQL Programming, Certiport testing center proctor, ECDL trainer

Obrazovanje:

- Doktorska disertacija
Matematički fakultet, Računarstvo, 2009-2015

Knjige:

- I. Štrumberger, N. Bačanin Džakula, Ključ računarstvo, Univerzitet Singidunum, 2021
- M. Dobrojević, N. Bačanin-Džakula, Veb programiranje, Univerzitet Singidunum, Beograd, 2021
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Radovi u časopisima:

- V. Radojicic, N. Bacanin, L. Jovanovic, M. Dobrojevic, V. Simic, D. Pamucar, M. Zivkovic, J. Kaljevic, *A two-layer TinyML approach aided by metaheuristics optimization for leveraging agriculture 4.0 and plant disease classification, Applied Soft Computing, No. 114179, Nov, 2025*
- L. Babic, L. Jovanovic, J. Cadjenovic, M. Mohamed Elsayed, M. Hammad, M. Zivkovic, V. Simic, N. Bacanin, *A multivariate methodology combining recurrent neural networks with the modified variable neighborhood search algorithm for unemployment forecasting, Applied Soft Computing, No. 114143, Nov, 2025*
- V. Markovic, L. Jovanovic, M. Zivkovic, B. Radomirovic, A. Njegus, M. Abdel-Salam, V. Simic, N. Bacanin, *Attention augmented recurrent architectures for solar energy production forecasting, Applied Soft Computing, No. 114119, Oct, 2025*
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- L. Jovanovic, N. Bacanin, A. Petrovic, M. Zivkovic, M. Antonijevic, V. Gajic, M. Mohamed Elsayed, M. Abouhawwash, *Exploring artificial intelligence potential in solar*

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- **A. Jokic, M. Zivkovic, L. Jovanovic, M. Mravik, M. Sarac, V. Simic, M. Khan, N. Bacanin, A convolutional neural network-enhanced attack detection framework with explainable artificial intelligence for internet of things-based metaverse security, ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, Vol. 158, Part B, No. 111358, Jun, 2025**
- **M. Todorovic, S. Kozakijevic, L. Jovanovic, L. Babic, M. Antonijevic, V. Zeljkovic, M. Zivkovic, N. Bacanin, Detecting Harassment in User Comments: Two-Tier Machine Learning and Metaheuristics Approach with Natural Language Processing, SN Computer Science, Vol. 6, No. 573, Jun, 2025**
- **M. Kljajic, V. Mizdrakovic, L. Jovanovic, N. Bacanin, V. Simic, D. Pamucar, M. Zivkovic, Gasoline and Crude Oil Price Prediction using Multi-headed Variational Neighbour Search-tuned Recurrent Neural Networks, Computational Economics, pp. 1 - 36, May, 2025**
- **A. Tasic, L. Jovanovic, N. Bacanin, M. Zivkovic, V. Simic, M. Popovic, M. Antonijevic, Towards sustainable societies: Convolutional neural networks optimized by modified crayfish optimization algorithm aided by AdaBoost and XGBoost for waste classification tasks, Applied Soft Computing, No. 113086, Apr, 2025**
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