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OBRAZOVANJE

• DOKTORSKE STUDIJE

Univerzitet Sinergija, Bezbjednost računarskih sistema, 2022-

• MASTER STUDIJE

Univerzitet Sinergija, Savremene informacione tehnologije, 2020-2021

• OSNOVNE STUDIJE

Univerzitet Sinergija, Fakultet za računarstvo i informatiku, 2016-2020

RADOVI U ČASOPISIMA

1. **Reality Gap Analysis in Physics-Informed ICS Anomaly Detection: From Synthetic Validation to HAI 23.05 Real-World Testbed Evaluation** - Machine Learning and Knowledge Extraction, 2026, MDPI, <https://doi.org/10.3390/make8090276>
Autori: Radovanović Dalibor, Dušan Marković, Petar Kresoja, Aleksandar Sandro Cvetković, Vesna Radojčić, Marko Šarac, i Nikola Savanović.
2. **A two-layer TinyML approach aided by metaheuristics optimization for leveraging agriculture 4.0 and plant disease classification** – *Applied Soft Computing*, Nov 2025.
DOI: 10.1016/j.asoc.2025.114179, Elsevier
Autori: Vesna Radojčić, Nebojša Bačanin, Luka Jovanović, Jelena Kaljević [...].
3. **AI-Driven Transformation of the Fitness Industry: A Case Study of G&S Premium Gym – JITA** – <http://doi.org/10.7251/JIT2502122R>, *JITA - Journal of Information Technology and Applications (Banja Luka) - APEIRON*, 2025.
Autori: Vesna Radojčić, Miloš Dobrojević.
4. **THE ROLE OF SMART FITNESS DEVICES WITH AI IN OBESITY PREVENTION AND HEALTH MONITORING** – *Akademski pregled*, 2025, Univerzitet Bijeljina,
DOI: 10.7251/AP2502277R
Autori: Vesna Radojčić, Miloš Dobrojević.
5. **Transforming Traffic Safety: Detection of Car-Pedestrian Contact Using Computer Vision Technologies** – <http://doi.org/10.7251/JIT2402104R>, *JITA - Journal of Information Technology and Applications (Banja Luka) - APEIRON*, 2024.
Autori: Vesna Radojčić, Miloš Dobrojević.

6. **Understanding and Mitigating Algorithmic Bias in Contemporary Applications – Jan 2024.**
 Autori: Ljubinko Stojanović, Vesna Radojčić, Filip Jovanović [...], Hasam Mostafa Ahmed Mletan.
7. **The Influence of Artificial Intelligence on Creative Writing: Exploring the Synergy between AI and Creative Authorship – Dec 2023.**
 Autori: Ljubinko Stojanović, Vesna Radojčić, Slavica Savić [...], Aleksandar Sandro Cvetković.
8. **Development of New Sensors and Technologies for Precision Agriculture – STED Journal, May 2023.**
 Autori: Vesna Radojčić, Aleksandar Sandro Cvetković
9. **Economic Justification of Applying Information Technologies to the Creation of Smart Cities – The European Journal of Applied Economics, Apr 2022.**
 Autori: Aleksandar Sandro Cvetković, Vesna Radojčić.

POGLAVLJA U KNJIGAMA

1. **A Computer Vision-Based Approach Optimized by Modified Metaheuristic for Precise Agriculture Applications**, DOI: 10.1007/978-981-96-5210-5_44, In book: Evolutionary Artificial Intelligence, Springer – Jul 2025.
Autori: Vesna Radojčić, Miloš Dobrojević, Luka Jovanović [...], Nebojša Bačanin.
2. **Hybrid CNN and XGBoost Model Tuned by Metaheuristics for DC Motor Failure Prediction Using Mel Spectrograms**, DOI: 10.1007/978-981-97-9006-7_1, In book: World Congress on Smart Computing, Springer – Apr 2025.
Autori: Luka Jovanović, Vesna Radojčić, Miloš Dobrojević [...], Nebojša Bačanin.
3. **Audio Analysis Optimized by Modified Metaheuristic for Motor Predictive Maintenance**, DOI: 10.1007/978-981-97-8868-2_11, In book: Computer Vision and Robotics, Springer – Nov 2024.
Autori: Luka Jovanović, Aleksandra Božović, Nebojša Bačanin [...], Miloš Dobrojević.

RADOVI NA KONFERENCIJAMA

1. **“Optimization of TinyML Models for Plant Disease Classification Using PSO Algorithm,”** in Sinteza 2026 - International Scientific Conference on Information Technology, Computer Science, and Data Science, Belgrade, Singidunum University, Serbia, 2026, pp. 137-143. doi:10.15308/Sinteza-2026-137-143
Autori: Vesna Radojčić, Miloš Dobrojević, Nebojša Bačanin Džakula, Miodrag Živković, Luka Jovanović.

2. **Li-Fi Communication in the Context of Zero Trust Security Models**, Sinergija University Scientific Conference with International Participation 2026, DOI: 10.7251/ZRSNG2526065S

Autori: Ljubinko Stojanović, Vesna Radojčić, Petar Spalević

3. **AI-powered smart fitness equipment** – XVII međunarodni naučno-stručni skup Informacione Tehnologije za e-Obrazovanje – ITEO, Okt 2025.

Autori: Vesna Radojčić, Miloš Dobrojević.

4. **AI-Driven Solutions for Urban Traffic Optimization and Energy Efficiency** – Sinergija University Scientific Conference with International Participation 2025. DOI: 10.7251/ZRSNG2525067R

Autori: Vesna Radojčić, Miloš Dobrojević, Saša Ž. Adamović, Marko Šarac.

5. **“Traffic Sign Recognition Using Computer Vision,”** in Sinteza 2025 - International Scientific Conference on Information Technology, Computer Science, and Data Science, Belgrade, Singidunum University, Serbia, 2025, pp. 10-15. doi:10.15308/Sinteza-2025-10-15

Autori: Vesna Radojčić, Miloš Dobrojević.

6. **“Analysis of the Efficiency of Computer Vision for the Detection of Vehicles and Pedestrians in Traffic,”** in Sinteza 2024 - International Scientific Conference on Information Technology, Computer Science, and Data Science, Belgrade, Singidunum University, Serbia, 2024, pp. 148-155. doi:10.15308/Sinteza-2024-148-155

Autori: Vesna Radojčić, Miloš Dobrojević.

7. **Li-Fi, AI, and IoT Technologies in Creating Sustainable Business** – Sinergija University Scientific Conference with International Participation, 2025. DOI: 10.7251/ZRSNG2525062S

Autori: Ljubinko Stojanović, Vesna Radojčić, Petar Spalević.

8. **EVOLUTIONARY DEVELOPMENT OF ARTIFICIAL INTELLIGENCE IN EDUCATION: ANALYSIS OF RECENT TRENDS AND FUTURE DIRECTIONS** – „CONFERENCE ON ADVANCES IN SCIENCE AND TECHNOLOGY“ COAST 2024, FACULTY OF MANAGEMENT HERCEG NOVI **Autori:** Vesna Radojčić, Aleksandar Sandro Cvetković, Ljubinko Stojanović.

9. **Advancements in Computer Vision Applications for Traffic Surveillance Systems** – Sinergija University Scientific Conference with International Participation, 2023. DOI: 10.7251/ZRSNG2324011R

Autori: Vesna Radojčić, Aleksandar Sandro Cvetković, Miloš Dobrojević [...]

10. **ADVANCEMENTS IN ROBOTICS, SMART FARMING, AND COMPUTER VISION: REVOLUTIONIZING AGRICULTURE** – XIV International Scientific Agriculture Symposium “AGROSYM 2023”, Oct 2023.
Autori: Vesna Radojčić, Aleksandar Sandro Cvetković.
11. **APPLICATION OF THE PRECISION AGRICULTURE SYSTEM IN DIFFERENT CLIMATIC CONDITIONS** – 6th International Scientific Conference "Village and Agriculture", Sep 2023. ISBN: 978-99976-165-3-1
Autori: Vesna Radojčić, Aleksandar Sandro Cvetković.
12. **ADVANCED TECHNOLOGIES FOR ENHANCING SUSTAINABLE AGRICULTURE: INTEGRATION OF ARTIFICIAL INTELLIGENCE, IOT, AND COMPUTER VISION** – XV međunarodni naučno-stručni skup Informacione Tehnologije za e-Obrazovanje, Sep 2023.
Autori: Vesna Radojčić, Aleksandar Sandro Cvetković
13. **11. The Use of Computer Vision in Precision Agriculture** – Sinteza 2023, Jan 2023.
Autori: Vesna Radojčić, Aleksandar Sandro Cvetković, Miloš Dobrojević.
14. **Artificial intelligence is the key to success in practical application** – Sinergija 2022, Mar 2022.
Autori: Vesna Radojčić, Aleksandar Sandro Cvetković, Miloš Dobrojević, Petar Spalević.
15. **Artificial intelligence as a pioneering step in school institutions** – Sinergija, Mar 2022.
Autori: Vesna Radojčić, Aleksandar Sandro Cvetković, Saša Ž. Adamović.
16. **Multi-factor Authentication for the Internet of Things** – Sinergija University International Scientific Conference, Nov 2021.
Autori: Aleksandar Sandro Cvetković, Vesna Radojčić, Saša Ž. Adamović.

OSTALI RADOVI

1. **Upotreba računarskog vida za prepoznavanje pješaka u saobraćaju** – Master rad, Sep 2021.
Autori: Vesna Radojčić.
2. **Internet marketing na društvenim mrežama** – Diplomski rad, Jul 2020.
Autori: Vesna Radojčić.