



**INTERNATIONAL CONFERENCE
ON APPLIED INTERNET AND INFORMATION TECHNOLOGIES**

Technical faculty "Mihajlo Pupin" Zrenjanin, Serbia

**AGENDA
November 8, 2024**

SMALL AMPHITHEATER		
9.00-10.00	REGISTRATION	
10.00-10.20	OPENING CEREMONY Chairman: Ivana Berković, PhD Dean: Milan Nikolić, PhD Co-chairman: Kostandina Veljanovska, PhD	
	PLENARY SESSION Chairman Ivana Berković	
10.20-10.50	<i>Text Mining</i> Slavica O'Connor, Canada	
10.50-11.20	<i>IT equipment and software for training, modeling and data analysis for flood and forest fire prevention, protection and management in project SOLVE</i> Andrijana Bocevska, N. Macedonia	
11.20-11.50	<i>Reducing Manual Labeling Effort by Identifying the Most Informative Unlabeled Data via Active Learning</i> Velibor Ilić, Serbia	
11.50-12.45	LUNCH	
CONFERENCE HALL 35		
	PLENARY SESSION Chairman Željko Stojanov	
12.45-13.15	<i>Digital platform for monitoring and forecasting the environmental situation of the Baikal natural territory</i> Evgeniy S., Russia	
13.15-13.30	<i>Advanced Cyber Security</i> Aleksandar Kotevski, Serbia	
13.30-15.00	FIRST ORAL SESSION	FIRST POSTER SESSION
15.00-15.30	COFFEE BREAK	
15.30-17.30	SECOND ORAL SESSION	SECOND POSTER SESSION

ORAL PRESENTATIONS

	FIRST ORAL SESSION – Chairman Dalibor Dobrilović
13.30-15.00	Optimizing Renal Scintigraphy Interpretation with an Interactive Deep Learning Tool Olivera Lazić, Marijana Matkovski , Dunja Vrbaški, Ana Jakovljević and Dragan Burić
	From Digital Substations to Cybersecurity: Protecting the Evolving Power Transmission Network Mugdin Agić , Mia Lešić Aganović and Emir Skejić
	Systematic Evaluation of Applications with a Microfrontend Architecture: The Vet Clinic Box Monitoring App Case Katarína Semanová, Csaba Szabó
	Program Model for a Visual Editor of Gamepad Haptic Effects Vasilije Bursać , Dragan Ivetić and Aleksandar Kupusinac
	On the Energy Consumption of Global Video Streaming Zoran Kotevski , Igor Nedelkovski, Aleksandar Markoski, Andrijana Bocevska
	Comparative Analysis: Web, Native, and Progressive Web Applications Sara Poparić , Dinu Dragan, Dušan B. Gajić, Veljko B. Petrović
	<i>KNN Algorithm Implementation in Real-World Problem of Water Quality Classification</i> Kostandina Veljanovska, Aneta Trajkovska , Nikolce Veljanovski
	Object Tracking in Video Stream Marko Beljin , Ivan Gašić, Željko Stojanov, Peter Odry, Zoltan Vizvari, Vladimir Tadić
15.00-15.30	COFFEE BREAK
15.30–17.30	SECOND ORAL SESSION – Chairman Vladimir Brtka
	Programming model for GenICam-based cameras Bojan Torbica , Dragan Ivetić and Aleksandar Kupusinac
	Challenges in Evaluating Large Language Models: Insights from Five Critical Benchmarks Dilan Dobardžić , Višnja Ognjenović, Vladimir Brtka, Jelena Stojanov, Katarina Vignjević
	Neural networks in pellet combustion control - research report for OZONE 55 Stefan Popović , Sonja Đukić Popović, Dejan Đukić, Nebojša Denić
	Could Facebook's user interface be more usable for seniors? Dragana Bodiroga , Dragan Ivetić
	Design and Development of Laser Engraving Machine Evgenija Divitarova and Andrijana Bocevska
	Evaluation of the Efficiency of User Interfaces for AI Tools Gordana Jotanović, Goran Jauševac, Vladimir Brtka, Armin Podanović , Jelena Simić, Ajla Nurkanović
	Regression Gradient Initialization: A New Approach to Weight and Bias Initialization Dalibor Šeljmeši , Jelena Stojanov, Vladimir Brtka and Dragan Peraković
Implementing Master-Detail Interface Design in an MVC .NET Web Application for Gym Membership Management Nikola Jovanov , Eleonora Brtka, Predrag Novokmet, Milica Mazalica and Aleksandra Stojkov Lončarski	

POSTER PRESENTATIONS

FIRST POSTER SESSION Chairman Zoltan Kazi	SECOND POSTER SESSION Chairman Eleonora Brtko
<i>Communication Challenges in Agile Meetings</i> Maja Gaborov, Miodrag Kovačević, Nemanja Tasić, Dragan Kreculj, Nada Ratković Kovačević, and Dragana Kovač	<i>An Overview of Multimedia - audio data visualization processusing Business intelligence tools</i> Marko Blažić, Srđan Popov, Višnja Ognjenović, Katarina Vignjević, Milan Marković, Slobodan Nadrljanski
<i>Investigating the impact of social networks on viral marketing</i> Magdalena Ninkov, Snežana Jokić, Đorđe Alavuk, Nikola Jančev, Marjana Pardanjac	<i>The Perception of Risks in Digital Payment Services</i> Nikola Jerković, Ana Jovanović, Ivana Berković, Edit Boral
<i>Security of Information Systems in Solar Energy Overview of Approaches and Practices</i> Luka Đorđević, Borivoj Novaković, Mihalj Bakator, Velibor Premčevski and Stefan Ugrinov	<i>Revolutionizing education through adaptive technologies</i> Nemanja Tasić, Dragana Glušac, Vesna Makitan, Miodrag Kovačević, Tamara Milić
<i>Quality of UML Class Diagram</i> Amižić Vuk, Kazi Zoltan	<i>The Role of Emerging Technologies in Transforming Supply Chains</i> Stefan Ugrinov, Edit Terek Stojanović, Dragana Kovač
<i>The Social Network Facebook as a Marketing Tool in the IT Retail Sector</i> Mitar Jovanović, Olivera Stupar and Mila Kavalić, Sanja Stanisavljev, Verica Gluvakov, Snežana Mirković	<i>Solar-Powered Sensor Station's Energy Consumption Simulator</i> Dalibor Dobrilović, Jasmina Pekez, Eleonora Desnica, Ivan Palinkaš
<i>The impact of Artificial Intelligence on personalization strategies in digital marketing</i> Verica Gluvakov, Mila Kavalić, Mihalj Bakator, Stefan Ugrinov, Sanja Stanisavljev and Snežana Mirković	<i>Encryption as an information security function in acritical infrastructure systems</i> Vladimir Kačanovski, Rade Dragović, Dragan Dragović, Bojan Perović
<i>Quarterly Trends in Soil Moisture And Air Temperature: A Python Based Analysis</i> Milena Zeljković, Dinu Dragan, Srđan Popov and Tanja Vranić	<i>Using predictive analytics and machine learning in Python to analyze and predict student success</i> Katarina Vignjević, Marko Blažić, Biljana Radulović, Milan Marković, Uroš Šarenac and Dilan Dobardžić
<i>Internet of Things in the Automotive Industry: A Review</i> Maša Knežević, Goran Sladić, Branko Markoski, Aleksandra Stojkov Lončarski	<i>Machine learning and theory of information in natural language processing</i> Zlatko Radovanović, Dejan Đukić
<i>The role of augmented and virtual reality in improving consumer marketing experiences</i> Mihalj Bakator, Luka Đorđević, Borivoj Novaković, Mića Đurđev and Stefan Ugrinov	<i>The Inheritance Relationship in the Teaching of Object-Oriented Programming</i> Aleksandar Kupusinac
<i>Investigating IT Experts' Attitudes Toward the Frequency of Agile Meetings: A Thematic Analysis</i> Maja Gaborov, Željko Stojanov, Srđan Popov, Dragana Kovač, Igor Vecštejn, Gordana Jotanović, Goran Jauševac	<i>Analysis of Different Types of Computer-Aided Engineering</i> Raul Turmanidze, Predrag Dašić, Vazha Shilakadze, and Giorgi Popkhadze
<i>Artificial intelligence in electrical engineering</i> Dejan Đukić, Stefan Popović	<i>Interactive faculty map and timetable web application</i> Ana Marija Ognjenović, Boško Nikolić, Višnja Ognjenović
<i>Cyber attacks and defense in the context of the application of regulations in the Republic of Serbia – challenges and proposals for improving the security of ICT systems</i> Tamara Milić, Jelena Bjelica	<i>Testing of the e-security systems in the automotive industry</i> Predrag Novokmet, Vesna Makitan, Dragana Glušac, Eleonora Brtko, and Nikola Jovanov
<i>Retrieval-Augmented Generation (RAG) in Local Large Language Models (LLMs)</i> Dilan Dobardžić	<i>Techniques of Software Integration Testing</i> Zoltan Kazi, Ljubica Kazi, Madhusudan Bhatt, Narendra Chotaliya

<p><i>Integration of Image Recognition Systems in Web Applications</i> Nikola Jovanov, Eleonora Brtko, Vesna Makitan, Predrag Novokmet and Albina Kószó</p>	<p><i>The Influence of the Trademark on the Visual Identity of Social Networks Through User</i> Nikola Jerković, Ivana Berković, Višnja Ognjenović</p>
<p><i>Adaptive Biometric Systems: Challenges and Opportunities</i> Anita Petreska, Blagoj Ristevski, Ivica Dimitriovski, Saso Nikolovski, Daniela Slavkovska</p>	<p><i>Malware and Social Engineering Threats</i> Aleksandar Bulajić</p>
<p><i>Organizational approach in implementation of business processes in the Macedonian automotive industry</i> Elizabeta Mitreva, Pavlinka Todorova and Dzevat Kicar</p>	<p><i>Artificial Intelligence, Privacy, and Information Security in Critical Infrastructure Systems</i> Rade Dragović, Nadežda Ljubojev, Dalibor Dobrilović, Bojan Perović, Vladimir Milošev, Milada Novaković</p>
<p><i>Algorithmic Management in the Platform Econom</i> Ivana Simić and Lucija Stojković</p>	<p><i>AI at the Edge: Trends and Innovations in Tiny Machine Learning Models for IoT and Embedded Systems</i> Aneta Trajkovska, Aleksandar Markoski</p>
<p><i>A Petri Net-Based Approach to Modeling Concurrency and Parallelism in Computer Architectures</i> Ilija Hristoski, Jelena Stojanov</p>	<p><i>Testing the capabilities of artificial intelligence and prompt engineering in the field of agrochemical soil analysis with fertilization recommendations</i> Željko Eremić and Milana Drašković</p>
<p><i>Pricing Dynamics in the Digital Housing Market: An Analytical Comparison of RentLingo.com and RentDigs.com</i> Gisele Habibulla</p>	<p><i>A comparative study of SDLC models</i> Buen Bajrami, Ilija Jolevski, Kostandina Veljanovska</p>
<p><i>Using Machine Learning Algorithms of Stroke Prediction</i> Daniela Slavkovska, Anita Petreska, Blagoj Ristevski, Saso Nikolovski, Nikola Rendeovski</p>	<p><i>Upgrading Traditional E-Commerce Systems With A Knowledge-Based Recommendation System</i> Teodora Siljanoska, Natasa Blazeska Tabakovska</p>
<p><i>A multi-task management system using MySQL</i> Buen Bajrami, Violeta Manevska, Kostandina Veljanovska</p>	<p><i>Analysis of GPT-4o Application in Solving Simple Static Beams Based on Uploaded Images: Potentials and Limitations</i> Ljubica Lazić Vulićević, Željko Eremić and Valentina Mladenović</p>
<p><i>Six-Layered Application of Artificial Intelligence in Business Intelligence</i> Veselina Naneva, Kremena Stefanova</p>	<p><i>Personal Data Protection in eGovernment</i> Rade Dragović, Nadežda Ljubojev, Dalibor Dobrilović, Bojan Perović, Milenko Đuričić</p>
<p><i>Development of a Responsive Web Application to Support the Creation of Class Schedules</i> Ivana Samardžić and Dragoljub Krneta</p>	<p><i>Proactive E-Services in Preventive Health Care Utilizing Knowledge Management</i> Mimoza Bogdanoska Jovanovska, Marija Petrevska, Natasa Blazeska-Tabakovska, Snezana Savoska</p>
<p><i>Cloud Services Modeling for long-term Intellectual Capital Protection</i> Sašo Nikolovski, Božidar Milenkovski, Anita Petreska, Daniela Slavkovska</p>	<p><i>How Industry 4.0 is Shaping the Future of Computer Networks</i> Zoltan Nyikes</p>