

AGENDA

Thursday, May 14 th , 2026, Technical faculty "Mihajlo Pupin", Zrenjanin*	
9.00-10.00	Registration of the participants
10.00-10.30	Opening of the ITRO Conference – Welcome speech Prof. dr Milan Nikolić Dean of the Technical faculty "Mihajlo Pupin" Zrenjanin Prof. dr Dragana Glušac Chairmen of the Organizing Committee
10.30-11.45	Keynote speakers (25 minutes each)
	Prof. dr Gordana Jotanović , AI Model for Assessment of Drivers' Situational Awareness in Micromobility; Faculty of Transport and Traffic Engineering, Doboj, Republic of Srpska, Bosnia and Hercegovina
	Prof. dr Vladimir Pavlović , Digital Technologies and Fine Tuning of Educational Outcomes; University of Belgrade, Faculty of Agriculture, Belgrade, Serbia
	Professor of vocational studies Tanja Sekulić , Artificial Intelligence from Alan Turing to Today and Beyond: Perspectives for Education; Technical College of Applied Sciences in Zrenjanin, Zrenjanin, Serbia
11.45-12.30	Coffee break
12.30-14.00	Presentations of the participants Poster sessions
14.00-15.00	Lunch
15.00-17.00	Presentations of the participants Poster sessions
17.00	Conference closure

* Djure Djakovica bb, Zrenjanin, Serbia, <http://www.tfzr.uns.ac.rs/itro/>



**Conference hall, 12.30-14.00 & 15.00-17.00
(Oral presentations)**

Chairman: Prof. dr Vesna Makitan, Prof. dr Jelena Stojanov	
Application of Object-Oriented Programming in Minimum Spanning Tree Algorithms	Vitanova M. K., Micov S., Gelova E.K. and Zlatanovska B. Faculty of computer science, "Goce Delcev" University, Stip, Republic of Macedonia
The impact of AI on student achievement	Karamazova Gelova E., Velinov A., Kocaleva Vitanova M. and Zlatanovska B. Faculty of computer science, "Goce Delcev" University, Stip, Republic of Macedonia
Impact of Mobile Phone Ban on Student Discipline and Socialization: A Longitudinal Study in Serbian Schools	Popović S.Đ., Faculty of Mathematics, Belgrade, Serbia; and Popović S., PS "Stevan Sindjelic", Belgrade, Serbia
Quantum Computers: Foundations, Computational Potential, and Opportunities for Education	Eremić Ž., Sekulić T. and Borjanović Trusina I. Technical College of Applied Sciences, Zrenjanin, Serbia
Software Ports and Secure Communication in Operating Systems	Vojnović M. Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia
Performance Measurement in Concurrent Programming with POSIX Threads	Topalov M. Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia
Random forest - a bridge between classical statistics and artificial intelligence	Kisić I., Radovanović D. and Stojanov J., Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia; and Pajić V., European Molecular Biology Laboratory, European Bioinformatics Institute, Cambridgeshire, United Kingdom

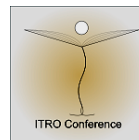


**Conference hall, 12.30-14.00 & 15.00-17.00
(On-line/Poster presentations)**

Chairman: Prof. dr Vesna Makitan, Doc. dr Jadranka Runčeva	
The Importance of Teachers' Personality Traits and Competencies for the Quality of Educational Practice in the 21st Century	Kačarić, Z.N., Faculty Despot Stefan Lazarević, Singidunum University, Belgrade, Serbia; and Solarov A., Primary school "Branko Radičević" Novi Sad
Assessment of AI Assistant Capabilities in Compressed Air Distribution System Design	Mladenović V., Eremić Ž., Technical College of Applied Sciences, Zrenjanin, Serbia; and Šešlija D., University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia
Social Media and Gamification in Youth Digital Entrepreneurship Education	Jovanov M., Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia
Personal and Social Development (PSD) in Secondary Schools in the Republic of Serbia	Kulić M., Secondary Vocational School "Branko Radicevic", Ruma, Serbia; Terek Stojanović E. and Kovač D., Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia
Teacher's satisfaction with the SportEdu distance learning system	Veličković D., Glušac D., Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia
Artificial Intelligence in technological education	Tosheva E.P. and Aleksandrova M.A. Faculty of Tehnology, SWU "Neofit Rilski", Blagoevgrad, Bulgaria
Programming Structures Ontology Modeling	Kazi Z., Kazi Lj., Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia; Chotaliya N., Institute of Teaching and Research in Ayurveda ITRA (Institute of National Importance), Jamnagar, Gujarat, India; and Bhatt M., Pragat Consultancy Services, Mumbai, India
The Use of Extended Reality (XR) in Industrial Robotics Training	Vidakovic J., Devic A., Zivkovic N., Dimic Z. and Vasovic Maksimovic I., Lola Institute/Robotics department, Belgrade, Serbia
Automated Test Generation Based on User Requirements Specification: Preliminary Review	Radu B. and Kazi Lj., Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia
Cryptography Techniques and Challenges for IoT and Embedded Systems: A Brief Analysis	Amižić V. and Dobrilović D., Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia
Intelligent Agents in Computer Science Education: Opportunities, Pedagogical Value, and Emerging Risks	Blažić M., Ognjenović V., Brtko E. and Marković M., Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia
Types of measurements in the evaluation of knowledge acquisition during the onboarding process in software teams	Vecštejn I., Stojanov Ž. and Milić T., Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia
Artificial Intelligence in Strategic Project Management Education for Industry 5.0	Lakatuš P., Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia



Primary School Teachers' Attitudes Toward Digital Tools and Artificial Intelligence in Nature and Society Instruction	Šaćirović D., University of Belgrade, Faculty of Education, Belgrade, Republic of Serbia; Muslić E., University of Niš, Faculty of Sciences and Mathematics, Niš, Republic of Serbia; and Novalić F., University of Novi Pazar, Novi Pazar, Republic of Serbia
Learning through interaction: Educational Games in Modern Education - Troll Forest	Stojkov Lončarski A., Brtka E., Jovanov N., Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia; Brtka E., University of Novi Sad, Faculty of Economics in Subotica, Republic of Serbia; Knežević M., University of Novi Sad, Faculty of Technical Sciences, Zrenjanin, Republic of Serbia; and Kószó A., University of Szeged, Dugonics tér 13, Szeged, Hungary
Personalizing learning with artificial intelligence tools	Tasić N., Pardanjac M., Milić T. and Đurđić D., Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia; Kovačević M., Technical College of Applied Sciences in Zrenjanin, Zrenjanin, Republic of Serbia; and Kovačević M., Faculty of Philosophy, Niš, Republic of Serbia
Teachers' perspectives on the introduction of artificial intelligence tools into teaching	Tasić N., Glušac D., Vignjević K., Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia; Kovačević M., Technical College of Applied Sciences in Zrenjanin, Zrenjanin, Republic of Serbia; and Kovačević M., Faculty of Philosophy, Niš, Republic of Serbia
Digital Competencies of Teachers	Lejić V., Pardanjac M. and Vasić I., Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia;
Implementation of Artificial Intelligence in Education	Kartalija N., Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia;
Students' Creativity in Higher Education	Kovač D., Terek Stojanović E., Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia; Kulić M., Secondary Vocational School "Branko Radicevic", Ruma, Serbia; and Ćočkalo-Hronjec M., High school „Laza Kostic“, Novi Sad, Serbia
Rethinking Student Identity: AI, Multilingualism, and Learning Practices in Kyrgyzstan	Diushenbekova A., Bishkek State University named after Kusein Karasaev, Kyrgyzstan; and Shadymanova J., American University of Central Asia, Bishkek, Kyrgyzstan
Explainable Intelligent Agents for Teacher Decision Support in AI-Enhanced Learning Environments	Blažić M., Berković I., Ognjenović V., Vignjević K. and Marković M., Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia
How Should English Be Taught as a General Education Course at Japanese Universities?	Takahashi Y., Anthropology and International Development Program, American University of Central Asia, Bishkek, Kyrgyzstan
Artificial Intelligence in Education: Applications, Challenges, and Future Directions	Namestovski Ž., Szűts Z. Eszterházy Károly Catholic University, Faculty of Pedagogy, Eger, Hungary; Buda A., University of Debrecen, Faculty of Arts Institute of Education and Cultural Management, Hungary; and Molnár G., Kandó Kálmán Faculty of Electrical Engineering Óbuda University Budapest, Hungary
Sustainable AI Integration in Education: Opportunities, Risks,	Mazgan M., Department of Performing Arts, Academy of Applied Arts, University of Rijeka, Croatia; and



and the Central Role of Teachers	Karleuša A.M., Speech and Language Practice "LOGO", Viškovo, Croatia
AI Assistant for Managing Student Tasks with Integrated Learning Material Analysis	Simeunovic, Z. and Makitan, V., Technical Faculty "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Republic of Serbia; and Brtka E., University of Novi Sad, Faculty of Economics in Subotica, Republic of Serbia;
Methodological Challenges and Contemporary Approaches in Engineering and Technology Education	Jokić S., Jović O., University of Novi Sad, Technical Faculty "Mihajlo Pupin", Zrenjanin, Republic of Serbia; Praksic A., NUBL Faculty of Education, Banja Luka, BiH; and Benjocki J.
Cognitive Development through Robotics Education: A Longitudinal Case Study in Primary Education	Vasić I., Jokić S. and Lejić V., University of Novi Sad, Technical Faculty "Mihajlo Pupin", Zrenjanin, Republic of Serbia
The difficulty of using XR systems - some experiences	Sobota B., Korečko Š., Šebest J., Szabó Cz. and Sobota T. Department of Computers and Informatics, Faculty of Electrical Engineering and Informatics, Technical University of Košice, Slovak Republic
The Use of Cloud Services for Scientific Research Purposes	Velinov A., Nikolova A. and Zdravev Z. Faculty of computer science, "Goce Delcev" University, Stip, Republic of Macedonia
AI-Fuzzy Logic in Urban Micromobility Virtual Driving Simulations	Jotanović G., Jausevac G., Pavlović M., University of East Sarajevo/Faculty of Transport and Traffic Engineering, Doboj, Bosnia and Herzegovina; Rakic E., Training Solutions & Consulting, Zagreb, Croatia; and Sarac D., University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia