



AGENDA

Friday, November 24 th , 2023, Technical faculty "Mihajlo Pupin", Zrenjanin*		
9.30-10.00	Registration of the participants – Регистрација учесника	
10.00-10.15	OPENING OF THE ITRO CONFERENCE Welcome speech	Prof. dr Milan Nikolić Dean of the Technical faculty "Mihajlo Pupin" Zrenjanin
	Отварање ИТРО Конференције – поздравни говор	Doc. dr Vesna Makitan Chairmen of the Organizing Committee
10.15-10.30	Потписивање меморандума о сарадњи	Association of Technical Culture Pedagogues of Serbia, Snežana Hercegovac Technical faculty "Mihajlo Pupin" Zrenjanin, prof. dr Milan Nikolić Doc. dr Snežana Jokić
10.30-10.45	Challenges of the Technical Science Subject Teaching	Tünde Anna Kovács Óbuda University, Bánki Donát Mechanical and Safety Engineering, Hungary
10.45-11.00	VR Technologies in the Educational Process of Disabled People and in University Education On-line presentation	Branislav Sobota*, Štefan Korečko*, Miriama Mattová*, Csaba Szabó* and Gabriel Stromp* *Department of Computers and Informatics, Faculty of Electrical Engineering and Informatics, Technical University of Košice, Slovak Republic
11.00-11.15	Analysis of Students' Academic Achievements in the Field of Mathematics and Computer Science	G. Jotanovic*, G. Jausevac *, D. Nedic*, D. Mandic**, and D. Glusac*** *University of East Sarajevo / Faculty of Transport and Traffic Engineering, Doboj, Bosnia and Herzegovina **University of Belgrade / Faculty of Education, Belgrade, Serbia ***University of Novi Sad / Technical faculty "Mihajlo Pupin", Zrenjanin, Serbia
11.15-11.30	Toward intelligent data analysis in higher education institutions	A. Joldić, D. Gašpar, N. Bijedić Faculty of Information Technologies University Džemal Bijedić of Mostar, Mostar, Bosnia and Herzegovina
11.30-11.45	The Challenge of Modern Education - A School without Mobile Phones	Sonja Djukić Popović*, Kata Vuletić*, Ivana Popović*, Stefan Popović**, Dragan Vučković*** *Primary school "Miloš Crnjanski", Belgrade **Primary school "Stevan Sindjelić", Belgrade ***Faculty of information technologies, Belgrade Republic of Serbia
11.45-12.15	Coffee break	

*Đure Đakovica bb, Zrenjanin, Republic of Serbia, <http://www.tfzr.uns.ac.rs/itro/index.html>



Oral presentations, room 35 Chair: prof. dr Marjana Pardanjac		
12.15-12.25	Entrepreneurship education for new business conditions in Serbia	Dragan Čočkalović*, Mihalj Bakator*, Sanja Stanisavljević*, Melita Čočkalović-Hronjčević** *University of Novi Sad, Technical Faculty "Mihajlo Pupin" Zrenjanin **High school "Laza Kostić", Novi Sad Republic of Serbia
12.25-12.35	A Qualitative Study on Onboarding in a Small Software Company	Z. Stojanović*, S. Bajić**, M. Kavalić*, S. Mitić***, and M. Nikolić *University of Novi Sad, Technical faculty "Mihajlo Pupin", Zrenjanin, Serbia **BS Computer, Zrenjanin, Serbia ***Novi Sad School of Business, Novi Sad Republic of Serbia
12.35-12.45	Attitudes of Teachers and Professional Associates on the Organization of School Work Using the Platform Microsoft Teams 365	B. Jovanović*, K. Milosavljević Pavković **, K. Milanović *** and J. Stojanović **** *Primary School "Dr Jovan Cvijic", Zrenjanin **ASEE, Belgrade ***International Red Cross Committee, Belgrade ****University of Novi Sad, Technical faculty "Mihajlo Pupin", Zrenjanin Republic of Serbia
12.45-12.55	The Phenomenon of Academic Boredom Among Adolescents in the Digital World	Dragana Glušac, Mila Kavalić, Vesna Makitan, Sanja Stanisavljević University of Novi Sad, Technical faculty "Mihajlo Pupin", Zrenjanin, Republic of Serbia
12.55-13.05	Learning in New Ways: E-Learning in the Fashion and Textile Industry	Valentina Bozoki, Marija Pešić, Ineta Nemeša, Nadiia Bukhonka and Dejan Bajić Technical faculty "Mihajlo Pupin", University of Novi Sad, Serbia
13.05-13.15	Overview of Studies Regarding Ethical Leadership in Educational Institutions	Verica Gluvakov, Dragan Čočkalović, Igor Vecštejn, Stefan Ugrinov University of Novi Sad, Technical faculty "Mihajlo Pupin", Zrenjanin, Republic of Serbia
13.15-13.25	Improvement of Teaching in the Subject: Enterprises Computer Infrastructure Management	Zoltan Kazi, Dalibor Šeljmešić University of Novi Sad, Technical faculty "Mihajlo Pupin", Zrenjanin, Republic of Serbia
13.25-13.35	Discipline of Pupils - The Problem of Modern Education	Stefan Popović*, Radoje Jevtić**, Sonja Đukić Popović***, Jovan Ničković**, Ivana Popović***, Vladimir Čabrić **** *Primary school "Stevan Sindelić", Belgrade **ETŠ „Nikola Tesla“, Niš ***Primary school "Miloš Crnjanski", Belgrade ****MUP RS, Belgrade Republic of Serbia
13.35-14.30	Lunch break	



Oral presentations and on-line presentations, room 35 Chair: prof. dr Dragana Glušac		
14.30-14.40	Statistical Analysis of Knowledge for Topic Complex Numbers of Students from the First Academic Year On-line presentation	Elena Karamazova Gelova*, Sonja Mančevska** *Faculty of computer science, University "Goce Delcev" – Stip **Faculty of Information and Communication Technologies, University St. Kliment Ohridski – Bitola Republic of North Macedonia
14.40-14.50	Augmented Reality Learning Environment for Mathematics and Sciences in GeoGebra 3D	Tanja Sekulic* and Jelena Stojanov** *Technical College of Applied Sciences in Zrenjanin **University of Novi Sad, Technical Faculty "Mihajlo Pupin" Zrenjanin Republic of Serbia
14.50-15.00	Synergy Between Marketing Strategies 4.0 and Education in Small and Medium Enterprises	Stefan Ugrinov*, Mihalj Bakator*, Mila Kavalić*, Verica Gluvakov* *University of Novi Sad, Technical Faculty "Mihajlo Pupin" Zrenjanin, Republic of Serbia
15.00-15.10	Metrics for Dashboards in Education	Dilan Dobardžić, Višnja Ognjenović University of Novi Sad, Technical Faculty "Mihajlo Pupin" Zrenjanin, Republic of Serbia
15.10-15.20	Enhancing Educational Practices through 3D Printing and Research Investigation	L. Djordjević, J. Pekez, B. Novaković, M. Đurđev University of Novi Sad, Technical Faculty "Mihajlo Pupin" Zrenjanin, Republic of Serbia
15.20-15.30	Scientific-Educational Application of Laser Alignment in Developing Engineering Students' Skills	B. Novaković, Lj. Radovanović, L. Đorđević, M. Đurđev University of Novi Sad, Technical Faculty "Mihajlo Pupin" Zrenjanin, Republic of Serbia
15.30-15.40	Web Development Trends in E-Learning	I. Vecštejn*, V. Gluvakov*, D. Kovač*, N. Tihi** *University of Novi Sad, Technical Faculty "Mihajlo Pupin" Zrenjanin **The Higher Education Technical School of Professional Studies in Novi Sad Republic of Serbia
15.40-15.50	Comparison of Traditional and Electronic Learning During the Covid-19 Virus Pandemic	A. Mesaroš, V. Makitan University of Novi Sad, Technical Faculty "Mihajlo Pupin" Zrenjanin, Republic of Serbia
15.50-16.00	Conference closure	Затварање Конференције



14.30, Poster presentations, room 29 Chair: doc. dr Snežana Jokić	
Empowering Learning through PBL and Scrum in Computer Science Education	Sanja Maravić Čisar*, Robert Pinter*, Petar Čisar** *Subotica Tech-College of Applied Sciences, Subotica **University of Criminological and Police Studies, Belgrade Republic of Serbia
Migration and redesign of an existing website to a new server	Mirjana Kocaleva Vitanova, Elena Karamazova Gelova, Biljana Zlatanovska Faculty of Computer Science, University "Goce Delcev" – Stip, Republic of North Macedonia
Programming drones in elementary education	Aleksandar Mamić*, Svetlana Pešut** *University of Kragujevac, Faculty of Technical Sciences, Čačak **Primary school "Petar Kočić", Indija Republic of Serbia
Formative Assessment in Distance Education - Examples from the Primary School Practice of Technics and Technology	Snezana Jokić*, Marjana Pardanjac*, Aleksandra Ilić**, Maja Hadžić*** *University of Novi Sad, Technical Faculty "Mihajlo Pupin" Zrenjanin **Primary school "Miroslav Antic", Belgrade ***Primary school "Vasa Carapic", Belgrade Republic of Serbia
Some Information Communication Technologies in Logistics and Supply Chains	Dragan Radovanović The Principal of Primary School "Vuk Karadžić", Sočanica, Republic of Serbia
Review of the Usage of Cloud Technologies in Education	Aleksandar Velinov, Done Stojanov, Aleksandra Nikolova, Zoran Zdravev Faculty of Computer Science, University "Goce Delcev" – Stip, Republic of North Macedonia
With an Electronic Store Closer to our Customers	Mirjana Kocaleva Vitanova, Aleksandra Risteska Kamcheski, Zoran Zlatev Faculty of Computer Science, University "Goce Delcev" – Stip, Republic of North Macedonia
User Experience Evaluation Metric Model Based on Graphical and Content Elements Estimation	Vuk Amižić*, Ljubica Kazi*, Dragica Radosav*, Madhusudan Bhatt**, Narendra Chotaliya*** *University of Novi Sad, Technical Faculty "Mihajlo Pupin" Zrenjanin, Republic of Serbia **University of Mumbai, K.C. College, India (retired) ***Government Science College, Jasdan, District - Rajkot, Gujarat, India
Variable Duration Melody Generation Using LSTM Encoder-Decoder Architecture	Siti Bealinda Qinthara Rony*, Sašo Arsovski*, Branko Markoski**, Predrag Pecev*** and N. Mandić** *Faculty of Artificial Intelligence and Robotics Raffles University, 79250 Iskandar, Malaysia **University of Novi Sad, Faculty of Technical Sciences, Novi Sad ***Preschool Teacher Training and Business Informatics College of Applied Studies "Sirmium", Sremska Mitrovica, Republic of Serbia
Client Side Testing of Web Applications	N. Mandić*, B. Markoski*, V. Premčevski** and P. Pecev*** *University of Novi Sad, Faculty of Technical Sciences, Novi Sad **University of Novi Sad, Technical Faculty "Mihajlo Pupin", Zrenjanin ***Preschool Teacher Training and Business Informatics College of Applied Studies "Sirmium", Sremska Mitrovica Republic of Serbia



Challenges, Education and Opportunities for Young Digital Entrepreneurs	Milica Jovanov University of Novi Sad, Technical Faculty "Mihajlo Pupin" Zrenjanin, Republic of Serbia
Educational Software in the Function of Improving Education of Children with Special Needs	I. Kostovski*, Z. Žigić*, R. Dragović**, V. Milošev*** *Primary School „Miloš Crnjanski“ Žabalj **Institute for standards and technologies, Belgrade ***University of Novi Sad, Technical Faculty "Mihajlo Pupin" Zrenjanin, Republic of Serbia
Enforcing Zero Trust in Distributed Cloud Deployments	Tamara Ranković University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Republic of Serbia
Projects Using the National Platform for Artificial Intelligence of the Republic of Serbia: Review	Maša Knežević*, Branko Markoski** and Velibor Premčevski*** *Office for Information Technologies and e-Government, Belgrade **University of Novi Sad, Faculty of Technical Sciences, Novi Sad ***University of Novi Sad, Technical Faculty "Mihajlo Pupin" Zrenjanin Republic of Serbia
Utilizing Natural Language Processing for Enhancing Educational Content and Accessibility in Technical Education	Dilan Dobardžić, Višnja Ognjenović and Ivana Berković University of Novi Sad, Technical Faculty "Mihajlo Pupin" Zrenjanin Republic of Serbia
Development of digital literacy and technological abilities of employees	Jelena Slavić University of Novi Sad, Technical faculty "Mihajlo Pupin", Zrenjanin, Republic of Serbia
The Classrooms Workload as a Parameter for the Quality Analysis of Teaching Schedule	Aleksandar Kupusinac University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Republic of Serbia
Advantages of Education and Training of Employees in Modern Business	Dragana Kovač*, Edit Terek Stojanović*, Maja Gaborov* and Melita Čočkalo-Hronjec** University of Novi Sad, Technical faculty "Mihajlo Pupin", Zrenjanin **High school "Laza Kostić", Novi Sad Republic of Serbia
Curriculum of Marine Ecosystem Characteristics	Nina Đapić University of Novi Sad, Technical faculty "Mihajlo Pupin", Zrenjanin, Republic of Serbia
Development of Tests for E-learning Studies	I. Nemeša, M. Pešić, N. Bukhonka, V. Bozoki University of Novi Sad, Technical faculty "Mihajlo Pupin", Zrenjanin, Republic of Serbia
Interpersonal Relationships as a Prerequisite for Success in Educational Institutions: an Emphasis on Conflict Management	K. Bašić University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Republic of Serbia
Design and Implementation of a Lambda Calculus Interpreter	Pavle Glušac University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Republic of Serbia
Wordpress as a Website Development Platform – a Case Study	P. Novokmet*, E. Brtko*, and S. Mitić** *University of Novi Sad, Technical faculty "Mihajlo Pupin", Zrenjanin ** Novi Sad School of Business, Novi Sad Republic of Serbia
One Approach to Web Application Development to Support Library Business Processes	D. Drinić and D. Krneta University of East Sarajevo, Faculty of Education, Bijeljina, The Republic of Srpska, Bosnia and Herzegovina



Improving User Experience Aspect at a Preschool Institution Web Site – a Case Study	Ljubica Kazi, Tatjana Lojović, Zeljko Cvijanović, Vuk Amižić, Marija Kazi University of Novi Sad, Technical faculty "Mihajlo Pupin", Zrenjanin, Republic of Serbia
Artificial Intelligence in Online Learning	Ema Brtka*, Eleonora Brtka**, Edit Boral*** and Ivana Berković** *University of Novi Sad, Faculty of Economics in Subotica **University of Novi Sad, Technical Faculty "Mihajlo Pupin", Zrenjanin Republic of Serbia ***ASA College/Department of Computer Technology, New York, USA
Enhancing Educational Processes: Contemporary Communication in Web Design Teaching	Aleksandra Kolevska, Natasha Blazheska-Tabakovska Faculty of Information and Communication Technologies, Bitola, Republic of North Macedonia