









Section - Information Technology and Mechanical Engineering

	Title of paper	Author(s)	Institution	Paper
1	SOME RELATIONS BETWEEN POLYGONAL FIGURATIVE NUMBERS	Miroslava Mihajlov Carević	Faculty for business, economics and entrepreneurship, Beograd, Serbia	CLICK
2	USE OF GEOGEBRA IN THE STUDY OF ROTATIONS	Miroslav Maksimović, MSc; Nataša Kontrec, PhD; Stefan Panić, PhD;	University of Priština in Kosovska Mitrovica, Faculty of Sciences and Mathematics, Kosovska Mitrovica, Serbia;	CLICK
3	EFFECTS OF USING THE MICROSOFT TEAMS PLATFORM AT THE KOSOVO AND METOHIIJA ACADEMY OF APPLIED STUDIES	Dr Nenad Marković, PhD(1); Dejan Živković(1); Filip Marković(2); Sanja Marković, PhD(1);	(1)Akademija strukovnih studija kosovsko metohijska, Odsek Uroševac – Leposavić, Serbia; (2)Fakultet tehničkih nauka, Kosovska Mitrovica, Serbia;	CLICK
4	DESIGN OF THE CURRENT LOGGER OF AUTOMATIC CONTROL SYSTEM FOR CURRENT COLLECTORS	Branislav Gavrilović, PhD; Zoran Bundalo, PhD;	Academy of Technical and Art Applied Studies Belgrade, Department Railway College of Applied Studies, Belgrade, Serbia;	CLICK
5	STUDENTS' PERCEPTION AND EXPERIENCE WITH THE MOODLE PLATFORM: FINDINGS FROM A CASE STUDY AT THE DEPARTMENT OF BUSINESS STUDIES IN LESKOVAC, SERBIA	Ivana Jovanović, Msc;	Academy of Professional Studies South Serbia, Department for Business Studies Leskovac, Leskovac, Serbia;	CLICK
6	MATHEMATICS FOR INFORMATICS EDUCATION	Ljubica Diković, PhD(1); Goran Bjelobaba, MSc(2); Ana Savić, PhD(3); Nikola Popović, MSc(4);	(1)Western Serbia Academy of Applied Studies, Užice, Serbia; (2)University of Belgrade, Faculty of organizational sciences Department for e-business, Belgrade, Serbia; (3)Academy of Technical and Art Applied Studies Belgrade, School of Electrical and Computer Engineering, Serbia; (4)Alfa BK University, Faculty of Mathematics and Computer Science Belgrade, Serbia;	CLICK
7	KINEMATIC ANALYSIS IN THE FIELD OF RESEARCH PTO TRANSMISSIONS	Mr Dragiša Mičić; Zorica Lazić, PhD;	Western Serbia Academy of Applied Studies, Užice, Serbia;	CLICK
8	AUTOMATED VEHICLE AND PEDESTRIAN DETECTION	Aleksandar Stjepanovic, PhD; Miroslav Kostadinovic; Goran Kuzmic, MSc; Mirko Stojcic, MSc;	University of East Sarajevo, Faculty of Transport and Traffic Engineering, Doboj, Bosnia and Herzegovina;	CLICK

9	SEQUENTIAL FIT ALGORITHMS EVALUATION USING OBJECT-ORIENTED PROGRAMMING	Milica Tufegdžić, PhD; Aleksandar Mišković, PhD;	Academy of professional studies Šumadija, Trstenik, Academy of professional studies Šumadija, Kragujevac, Serbia;	
10	ANALYSIS OF USER LOGS FROM THE E- LEARNING SYSTEM AND OPINION MINING IN THE FIELD OF PROGRAMMING	Katarina Karić, MSc; Marija Blagojević, PhD;	University of Kragujevac, Faculty of Technical Sciences, Čačak, Serbia;	
11	INSERTION OF SYNTHETIC DATA INTO AN EMPIRICAL DATABASE OF SOME ALLOYS' CORROSION DEPTH AND THEIR INFLUENCE ON THE SELECTION OF THE BEST-FITTED CONTINUOUS DISTRIBUTIONS	Nataša Kovač, PhD(1); Špiro Ivošević, PhD(2);	(1)University of Donja Gorica, Faculty of Applied Sciences, Podgorica, Montenegro; (2)University of Montenegro, Faculty of Maritime Studies, Kotor, Montenegro;	
12	SOFTWARE NETWORKS IN THE LOGICAL ARCHITECTURE OF THE CYBER-PHYSICAL TRAFFIC SYSTEM	Milorad K. Banjanin, PhD(1); Mirko Stojčić, MSc(2); Dejan Drajić, PhD(3);	(1)University of Novi Sad, Faculty of Technical Sciences; (2)University of East Sarajevo, Faculty of Transport and Traffic Engineering, Bosnia and Herzegovina; (3)University of Belgrade, Faculty of Electrical Engineering;	
13	ANALYSIS OF STUDENT DROPOUT AT WESTERN SERBIA ACADEMY OF APPLIED STUDIES: A CLUSTERING BASED APPROACH	Milovan Milivojevic(1); Srdjan Obradovic(1); Ana Kaplarevic Malisic(2); Slobodan Petrovic(1)	(1)Western Serbia Academy of Applied Studies, Užice, Serbia; (2)Faculty of Science, University of Kragujevac, 34000 Kragujevac, Serbia;	
14	THE IOT WEATHER STATION MODEL	Dragan Kreculj (1); Vojkan Nikolić (2); Jasmina Lozanović Šajić (3); Đorđe Dihovični (4); Nada Ratković Kovačević (4);	(1)Senior lecturer, Academy of Technical Vocational Studies/Department CMI, Belgrade, Serbia; (2)Asistant professor, University of Criminal Investigation and Police Studies, Belgrade, Serbia; (3)Associate professor, IC Faculty of Mechanical Engineering, Belgrade, Serbia; (4)Professor of vocational studies, Academy of Technical Vocational Studies/Department CMI, Belgrade, Serbia;	
15	THE VISUALISATION OF ELECTRICITY CONSUMERS AND ELECTRICITY CONSUMPTION IN AN URBAN AREA	Dragana Knežević	Western Serbia Academy of Applied Studies, Užice, Serbia;	
16	EXPERIMENTAL ANALYSIS OF SDN CONTROLLER SCALABILITY BY USING MININET EMULATIONS	Danijel Čabarkapa, Petar Pavlović, Dejan Rančić;	(1)Academy of Vocational Studies Šabac, Department of Medical and Business-Technological Studies,	

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17	RESEARCH OF THE SPAMASSASSIN ANTI-SPAM SYSTEM	Predrag Popovic, MsC; Slobodan Petrović, Mag;	Western Serbia Academy of Applied Studies – Užice Departmen, Uzice, Serbia;	CLICK
18	ANALYSIS OF DIFFERENT EXTRAPOLATION METHODS APPLIED IN LOW-POWER SYSTEMS WITH APPLIED VRS ALGORITHM	Bojan Prlinčević, PhD(1); Zoran Milivojević, PhD(2);	(1)Kosovo and Metohija Academy of Applied Studies, Leposavić, Serbia; (2)The Academy of Applied Technical and Preschool Studies, Niš, Serbia;	CLICK
19	INFLUENCE OF INTERFERENCE ON SPEECH INTELLIGIBILITY IN A CAR USING THE BINAURAL METHOD	Marina Milivojević (1); D. Kostić (2); Zoran Milivojević(3);	(1)Mikkelsen Electronics, Niš, Srbija; (2)Geonais, Niš, Srbija; (3)College of Applied Technical Science Nis, Niš, Serbia;	CLICK
20	A BRIEF DISCUSSION ABOUT CONSTRUCTION OF CRYPTOGRAPHIC ALGORITHMS SALSA20 AND CHACHA	Boris Damjanović, PhD; Nikola Novaković, PhD; Negovan Stamenković, PhD;	Banja Luka College, Banja Luka, Republic of Srpska/BiH;	CLICK
21	DEFINING THE QUALITY OF BASIC MATERIAL IN THE PARTS REPAIR BY WELDING/SURFACING	Drakče Tanasković, PhD(1); Slobodan Petrović2, Mag; Branislav Đorđević, PhD3.	(1)HBIS GROUP Serbia Iron Steel, Smederevo, Serbia; (2)College of Applied Sciences, Uzice, Serbia;	CLICK
22	INTERNET IMPACT TO DBMS PERFORMANCE	Ilja Stanišević, PhD; Miloš Živković, MSc; Čebić Branko, MA; Beljić Dejan, MA;	Western Serbia Academy of Applied Studies – Valjevo Departmen, Serbia;	CLICK
23	USING ARTIFICIAL INTELLIGENCE TO CREATE A SOFTWARE AGENT FOR SOLVING THE 2048 GAME	Mikloš Pot, MA(1); Milovan Milivojević, PhD(2); Srđan Obradović(2)	(1)Visoka Tehnička Škola Strukovnih Studija, Subotica; (2)Western Serbia Academy of Applied Studies – Užice Departmen, Serbia;	CLICK
24	APPLICATION OF THE ONE-TIME PAD (OTP) CIPHER IN BUSINESS COMMUNICATIONS	Hana Stefanović, PhD(1); Ana Savić, PhD(2); Nikola Popović(3);	(1)Comtrade Information Technology School ITS, Belgrade, Serbia; (2)School of Electrical and Computer Engineering, Belgrade, Serbia; (3)Alfa BK University, Faculty of Mathematics and Computer Science, Belgrade, Serbia;	CLICK
25	PREDICTION OF THE DIMENSIONAL CHANGES DURING SINTERING OF	Dragoljub Drndarević, PhD; Milovan Milivojević, PhD;	Western Serbia Academy of Applied Studies – Užice Departmen, Serbia;	CLICK

26	THE OPEN SOURCE MOVEMENT	Anastasija Bojović(1); spec. Milorad Murić(2);	(1)University of Belgrade, School of Electrical Engineering, Belgrade, Serbia; (2)Western Serbia Academy of Applied Studies – Užice Department, Serbia;	CLICK
27	SYNTHESIS OF NEW REFRACTORY COATINGS BASED ON BASALT FOR FOUNDRY APPLICATIONS	Marko Pavlović(1); Ljiljana Trumbulović(2); Marina Dojčinović(3); Zoran Čeganjac(4)	(1)Kontrol Inspekt, Belgrade, Serbia; (2)Western Serbia Academy of Applied Studies, Užice Department, Serbia; (3)University of Belgrade, Faculty of Technology and Metallurgy, Belgrade, Serbia; (4)Academy of Applied Studies Šumadija, Aranđelovac, Serbia;	CLICK
28	DATA VISUALIZATIONS IN PYTHON WITH MATPLOTLIB	Sidita Duli , PhD	University "Luigj Gurakuqi", Shkodra, Albania	CLICK
29	THE EFFECT OF THE INTRODUCTION OF INFORMATION SYSTEMS IN MANUFACTURING COMPANIES ON THEIR MARKET POSITION	Mr Branka Budimir	Dunav Company insurance ado, GFO Uzice, Serbia,	
30	COMPUTATIONAL INTELLIGENCE BASED METHOD FOR EFFICIENT CLASSIFICATION OF MICROPHONES	Miroslava Jordovic Pavlovic, PhD(1); Aleksandar Kupusinac, PhD(2); Marica Popovic, PhD(3);	(1)Western Serbia Academy of Applied Studies, Užice, Serbia; (2)University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia; (3)University of Belgrade, Vinča Institute of Nuclear Sciences, Belgrade, Serbia;	CLICK
31	A COMBINED APPROACH FOR DIGITAL RECONSTRUCTION OF REAL-WORLD OBJECTS AND BUILDINGS USING 3D LASER SCANNERS AND PHOTOGRAMMETRY	Georgi Hristov, PhD; Diyana Kinaeva, PhD; Plamen Zahariev, PhD;	University of Ruse “Angel Kanchev”, Ruse, Bulgaria;	
32	CURRENT STATE AND EMERGING APPLICATIONS OF THE UNMANNED AERIAL VEHICLES AND THE AERIAL MANIPULATOR PLATFORMS IN THE PRECISION AGRICULTURE DOMAIN	Georgi Hristov, PhD(1); Nikolay Zlatov, PhD(2); Plamen Zahariev, PhD(1); Diyana Kinaeva, PhD(1); Yavor Yotov, MSc(2);	(1) University of Ruse “Angel Kanchev”, Ruse, Bulgaria; (2) Institute of Mechanics - BAS, Sofia, Bulgaria;	

33	COMPARATIVE ANALYSIS BETWEEN THE TRADITIONAL METHODS AND THE DIGITAL TECHNOLOGIES FOR DETECTION OF FOREST FIRES	Georgi Georgiev, MSc; Georgi Hristov, PhD; Plamen Zahariev, PhD; Diyana Kinaneva, PhD;	University of Ruse “Angel Kanchev”, Ruse, Bulgaria;	
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