

UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES

DEPARTMENT OF PRODUCTION ENGINEERING





NOVI SAD SERBIA

SEPTEMBER 28-29, 2018

Conference Program at a Glance

Main Conference Schedule

September 28th, 2018 (Friday)		September 29th, 2018 (Saturday)	
$8^{00} - 10^{00}$ $10^{00} - 10^{30}$ $10^{30} - 12^{00}$ $12^{00} - 13^{30}$ $13^{30} - 15^{30}$ $15^{30} - 15^{45}$ $15^{45} - 16^{30}$ $16^{30} - 19^{00}$ 20^{00}	Registration of participants Conference Opening Ceremony Plenary session (Keynote Speeches) Lunch and free time Presentation time – part 1 Coffe break Sponsors presentation time Presentation time – part 2 Conference Gala dinner	$9^{00} - 10^{30}$ $10^{30} - 11^{00}$ $11^{00} - 17^{00}$	Final plenary session and Round table Coffe break Conference Sightseeing Tour

	Day: 1 Frid	lay, September 28, 20	018
Time	H A L L UNIVERSITY OF NOVI SAD CENTRAL UNIVERSITY BUILDING (RECTORATE) Dr Zorana Đinđića 1, Novi Sad		
	Hall I Main auditorium / Amphitheatre	Hall II Multifunctional hall 2nd floor	Hall III Multifunctional hall 1st floor
8 ⁰⁰ – 10 ⁰⁰	REGIS	TRATION OF PARTICIPAN	NTS
10 ⁰⁰ - 10 ³⁰	CONFERENC	CE OPENING CEREMON	Y – HALL I
10 ³⁰ - 12 ⁰⁰	PLENARRY SESSION – HALL I		
12 ⁰⁰ – 13 ³⁰		Lunch and free time	
13 ³⁰ - 15 ³⁰	PRES	PRESENTATION TIME - PART 1	
15 - 15	Hall I (Section: B)	Hall II (Section: C)	Hall III (Section: E)
15 ³⁰ - 15 ⁴⁵	Coffe break		
15 ⁴⁵ - 16 ³⁰	SPONSORS PRESEN	ITATION TIME : FKL, FAN	NUC, ATB SEVER
	PRES	ENTATION TIME - PAR	Г 2
16 ³⁰ – 19 ⁰⁰	Hall I (Section: D)	16 ³⁰ – 18 ⁰⁰ Hall II (Section: A) 18 ⁰⁰ – 19 ⁰⁰ Hall II (Section: G)	Hall III (Section: F)
20 ⁰⁰	CONFERENCE GALA DINNER – RESTAURANT ALASKA BARKA, Ribarsko ostrvo 4, Novi Sad		
Time	Day: 2 Saturday, September 29, 2018		
9 ⁰⁰ - 10 ³⁰	FINAL PLENARY SESSION AND ROUND TABLE – HALL I		
10 ³⁰ - 11 ⁰⁰	Coffe Break		
11 ⁰⁰ - 17 ⁰⁰	EXCURSION TO PETROV	ARADIN FORTRESS AND) SREMSKI KARLOVCI



13TH INTERNATIONAL SCIENTIFIC CONFERENCE NOVI SAD, SERBIA, SEPTEMBER 28-29, 2018

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About the Conference

Continuing a long tradition of more than 40 years, the Department of Production Engineering of the Faculty of Technical Sciences and its Chairs:

- Chair of machine tools, process planning, flexible manufacturing systems and design processes,
- Chair of metrology, quality, fixtures, tools and environmental-engineering aspects and
- Chair for material processing technologies organize an international scientific-expert conference, called:

13th International Scientific Conference MMA 2018 - FLEXIBLE TECHNOLOGIES

The conference will cover current issues in the field of production engineering as well as multidisciplinary fields of mechanical engineering, information technologies, environmental engineering, biomedical engineering and other related engineering fields. The scientificexpert conference MMA, with its long tradition and regular organization since 1976, aims to gather and exchange experience of researchers and experts from faculties, institutes and industry, and thus wants to contribute to more intensive scientific and economic development.

Department of Production Engineering is the department with the longest tradition at the Faculty of Technical Sciences since its inception in 1976. At the Department of Production Engineering more than 1300 students have graduated and aboout 40 students have obtained a doctoral degree. There are currently around 300 students studying at the Department. Department of Production Engineering issues international journals: "International Journal for Technology of Plasticity" and "Journal of Production Engineering".

Faculty of Technical Sciences is one of the most modern organized higher education institutions in the region with a long tradition, and engineers educated at this Faculty, work and achieve remarkable results in companies that are connected with technology, production, education or services. The Faculty was founded 1960 as a Faculty of Mechanical Engineering. Today, the faculty consists of 13 departments that educate engineers, graduate engineers, master engineers, specialists and doctors of science.

MMA Conference history

No.	Year	Location	Chair of Scientific Committee	Chair of Organizing Committee
1.	1976	Faculty of Technical Sciences, Novi Sad		Sava Sekulić
2.	1979	Faculty of Technical Sciences, Novi Sad		Dragan Banjac
3.	1983	Faculty of Philosophy, Novi Sad		Jožef Rekecki
4.	1990	SPENS, Novi Sad	Jožef Rekecki	Ratko Gatalo
5.	1994	Novi Sad FAIR, Novi Sad	Ratko Gatalo	Velimir Todić
6.	1997	Hotel Sloboda, Sombor	Ratko Gatalo	Dragoje Milikić
7.	2000	Faculty of Technical Sciences, Novi Sad	Ratko Gatalo	Janko Hodolič
8.	2003	Faculty of Technical Sciences, Novi Sad	Ratko Gatalo	Ljubomir Borojev
9.	2006	Faculty of Technical Sciences, Novi Sad	Dragoje Milikić	Velimir Todić
10.	2009	Faculty of Technical Sciences, Novi Sad	Velimir Todić	Pavel Kovač
11.	2012	Faculty of Technical Sciences, Novi Sad	Janko Hodolič	Miodrag Hadžistević
12.	2015	Hotel Ceptor, Andrevlje	Milan Zeljković	Slobodan Tabaković

INTERNATIONAL SCIENTIFIC COMMITTEE

Mijodrag Milošević, chairman, FTN Novi Sad, SRB Bojan Ačko, FS Maribor, SLO Sergei Alexandrov, IPM Moskva, RUS Aco Antić, FTN Novi Sad, SRB Jan C. Aurich, TU Kaiserslautern, GER Bojan Babić, MF Beograd, SRB Sebastian Baloš, FTN Novi Sad, SRB Konstantinos-D. Bouzakis, AU Thessaloniki, GRE Erhan Budak, SU Istanbul, TUR Igor Budak, FTN Novi Sad, SRB Ilija Ćosić, FTN Novi Sad, SRB Predrag Ćosić, FSB Zagreb, CRO Robert Čep, VŠB Ostrava, CZE Franc Čuš, FS Maribor, SLO Livia Dana Beju, LBU Sibiu, ROU Goran Devedžić, FIN Kragujevac, SRB Lubomir Dimitrov, TU Sofia, BGR Cristian Doicin, UP București, ROU Dragan Domazet, UM Beograd, SRB Rade Doroslovački, FTN Novi Sad, SRB Numan M. Durakbasa, TU Vienna, AUT Kornel Ehmann, NU Illinois, USA Valentina Gecevska, MF Skopje, MKD Šefket Goletić, MF Zenica, BIH Dušan Golubović, MF Istočno Sarajevo, BIH Marin Gostimirović, FTN Novi Sad, SRB Miodrag Hadžistević, FTN Novi Sad, SRB František Holešovsky, UJEP Ústí, CZE Jerzy Jedrzejewski, PW Wrocław, POL Janez Kopač, FS Ljubljana, SLO Pavel Kovač, FTN Novi Sad, SRB Ivan Kuric, SF Žilina, SVK Mikolaj Kuzinovski, MF Skopje, MKD Gordana Lakić Globočki, MF Banja Luka, BIH Dejan Lukić, FTN Novi Sad, SRB Ljubomir Lukić, FMG Kraljevo, SRB

Ognjan Lužanin, FTN Novi Sad, SRB Vidosav Majstorović, MF Beograd, SRB Miodrag Manić, MF Niš, SRB Ildikó Maňková, TU Košice, SVK Dorian Marjanović, FSB Zagreb, CRO Zoran Miljković, MF Beograd, SRB Radivoje Mitrović, MF Beograd, SRB Slobodan Mitrović, FIN Kragujevac, SRB Bogdan Nedić, FIN Kragujevac, SRB Duško Pavletić, TF Rijeka, CRO Darko Petković, MF Zenica, BIH Petar B. Petrović, MF Beograd, SRB Goran Putnik, University of Minho, POR Radovan Puzović, MF Beograd, SRB Miroslav Radovanović, MF Niš, SRB Milenko Sekulić, FTN Novi Sad, SRB Tomislav Šarić, SF Slavonski Brod, CRO Mladen Šercer, FSB Zagreb, CRO Leposava Šiđanin, FTN Novi Sad, SRB Goran Šimunović, SF Slavonski Brod, CRO Branko Škorić, FTN Novi Sad, SRB Ľubomír Šooš, STU Bratislava, SVK Dušan Šormaz, OH Athens, USA Tibor Szalay, BME Budapest, HUN Slobodan Tabaković, FTN Novi Sad, SRB Branko Tadić, FIN, Kragujevac, SRB Ljubodrag Tanović, MF Beograd, SRB Radoslav Tomović, MF Podgorica, MNE Miroslav Trajanović, MF Niš, SRB Nicolae Ungureanu, FI Baia Mare, ROU Dragiša Vilotić, FTN Novi Sad, SRB Mircea Viorel Drăgoi, UT Brașov, ROU Vojo Višekruna, MF Mostar, BIH Đorđe Vukelić, FTN Novi Sad, SRB Lihui Wang, KTH Stockholm, SWE Milan Zeljković, FTN Novi Sad, SRB

HONORARY COMMITTEE

Slavko Arsovski, FIN Kragujevac, SRB Pavao Bojanić, MF Beograd, SRB Milenko Jovičić, MF Beograd, SRB Vid Jovišević, MF Banja Luka, BIH Milisav Kalajdžić, MF Beograd, SRB Miodrag Lazić, FIN Kragujevac, SRB Vučko Mečanin, MF Kraljevo, SRB Vladimir Milačić, MF Beograd, SRB Dragoje Milikić, FTN Novi Sad, SRB Dragan Milutinović, MF Beograd, SRB Ratko Mitrović, MF Kragujevac, SRB Sava Sekulić, FTN Novi Sad, SRB Mirko Soković, FS Ljubljana, SLO Bogdan Sovilj, FTN Novi Sad, SRB Jelena Stankov, FTN Novi Sad, SRB Velimir Todić, FTN Novi Sad, SRB Dragutin Zelenović, member of SASA, SRB

ORGANIZING COMMITTEE

Dejan Lukić, chairman Aleksandar Živković Boris Agarski Borislav Savković Branko Štrbac Miloš Knežev, secretary Mario Šokac Željko Santoši Ivan Matin Cvijetin Mlađenović Milana Ilić Mićunović Dragan Rodić Nenad Kulundžić Zorana Lanc

Conference Topics

MATERIAL PROCESSING TECHNOLOGIES

- Cutting Technology improvement and application of existing cutting processes; progressive, advanced, precision and environmentally friendly processes;
- Fundamentals of cutting process machinability, cutting characteristics, database of machining, intelligent machining processes;
- Monitoring, modelling and optimization of machining processes development of the procedures and their practical implementation;
- Non-conventional and hybrid technologies research and application in contemporary industry;

MACHINE TOOLS AND AUTOMATI C FLEXIBLE TECHNOLOGICAL SYSTEMS, CAX AND CIM PROCEDURES AND SYSTEMS

- Development and prediction of trends in development of machine tools and complex manufacturing systems;
- New concepts of machine tools;
- Development of machine tool and manufacturing system components; development of control, drive, measuring and manipulation systems;
- Machine tool design; new methods in design and construction;
- Behavior testing of machine tools and components; modern methods and results;
- Exploitation, modernization and maintenance of machine tools as means to an increased productivity and cost efficiency; methods, procedures and solutions;
- Automatic flexible technological structures; conceptual solutions, developed solutions, exploitation characteristics;
- · Procedures and systems for automated designing, construction and calculation - product design;
- Procedures and systems for automated programming of NC machine tools, manipulation systems, measurement machines and complex technological systems;
- Complex technological systems, Systems for computer integrated manufacturing; conceptual solutions, achievements in development;
- Techno-economical aspects of practice of CAD, CAM, CAQ, ..., CIM systems;
- New approaches and methods in designing and production (systems of artificial intelligence, expert systems, mechatronics, concurrent engineering, reverse engineering, rapid prototyping, virtual prototype, ...);

METROLOGY, QUALITY, FIXTURES, CUTTING TOOLS AND TRIBOLOGY

- Legal metrology, standardization;
- Measurement and instrumentation, measurement methods, measurement techniques;
- Precision engineering, calibration, CAQ/CAI;
- 3D-Digitization, reverse engineering, CAD Inspection;
- Quality tools, quality control;
- Total quality management, six sigma, manufacturing management;
- Maintenance, maintenance systems, maintenance management;
- Technical diagnostics, diagnostics methods, diagnostics techniques;
- Fixtures layout optimization, fixtures design, fixtures analysis;
- Flexible fixture systems, fixtures management;
- Cutting tool materials, cutting tool design;
- Modular tooling, cutting tool management;
- Surface topography, friction, wear, lubricants, coatings;
- Triboanalysis, tribomonitoring, tribometry, biotribology;

Conference Topics

PROCESS PLANNING, OPTIMIZATION, LOGISTICS AND INTERNET TECHNOLOGIES IN **PRODUCTION ENGINEERING**

- Processes planning; Group technology; Integrated CAPP systems;
- Technoeconomical optimization; Optimization methods; Multi-criteria decision-making;
- Design for manufacturing and assembly-DfMA; Product manufacturability; Production cost and time;
- Production logistics; Production planning, scheduling and control; Modeling, simulation and optimization of manufacturing and production processes;
- Collaborative engineering; Cloud manufacturing; Smart manufacturing;
- Manufacturing cyber physical systems; Internet of things in manufacturing;

MATERIALS, METAL FORMING, CASTING AND WELDING

- Metal forming technologies;
- Casting technologies;
- Welding technologies;
- Heat treatment technologies, nanotechnologies and surface engineering technologies;
- Plastics shaping technologies;
- Materials in production engineering;

MECHANICAL ENGINEERING AND ENVIRONMENTAL PROTECTION

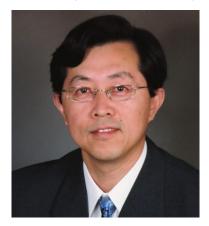
- Cleaner production;
- Recycling, zero waste technologies;
- Environmental management;
- Eco-design and Life Cycle Assessment (LCA) of products and processes;

BIO-MEDICAL ENGINEERING

- Application of modern engineering methods in development of biomedical products (3D digitization, reverse engineering, rapid prototyping, virtual design, ...);
- Application of modern manufacturing technologies in production of biomedical products (CAD/CAM, rapid prototyping, rapid tooling, ...);
- Modern approaches in quality control of biomedical products;

Keynote Speakers

LIHUI WANG Chair Professor at KTH Royal Institute of Technology, Stockholm, Sweden



Lihui Wang is a Professor and Chair of Sustainable Manufacturing at KTH Royal Institute of Technology, Sweden. His research interests are focused on cyber-physical systems, cloud manufacturing, predictive maintenance, real-time monitoring and control, human-robot collaborations, adaptive and sustainable manufacturing systems. Professor Wang is actively engaged in various professional activities. He is the Editor-in-Chief of International Journal of Manufacturing Research, Editor-in-CHief of Robotics and Computer-Integrated Manufacturing, and Editor of Journal of Intelligent Manufacturing. He has published 8 books and authored in excess of 450 scientific publications. Professor Wang is a Fellow of CIRP, SME and ASME, and a Board Director of North American Manufacturing Research Institution of SME.

DUŠAN ŠORMAZ Professor at Department of Industrial and Systems Engineering, Athens, Ohio, USA

Dušan N. Šormaz is a Professor at Ohio University, Department of Industrial and System Engineering, United States. His principal research interests are in process planning, cost modeling and estimation, Computer Integrated Manufacturing (CIM), concurrent engineering, group technology and application of knowledge based systems in engineering. He has been working on applying AI techniques in engineering problem areas such as cost estimation and oil corrosion prediction. Šormaz has organized several international conferences, he is a member of the editorial board of International Journal of Industrial Engineering and Management (IJIEM), he edited a special issue of International Journal of Production Research, and he serves as regular reviewer for several research journals in his area of expertise.



MIODRAG MANIĆ Professor at Faculty of Mechanical Engineering, Niš, Serbia



Miodrag T. Manić is a Professor at University of Niš, Faculty of Mechanical Engineering, Serbia. The numerous research projects and papers he conducted are mainly focused on the scientific field of production mechanical engineering, specifically the following areas: Technology processes designing, CNC technologies, Biomedical engineering, Experiment planning and conducting. He published more than 280 scientific papers in national and international scientific magazines, and in conference proceedings of both national and international scientific conferences. On several occasions, he has been the member of the scientific and program defining board for national and international conferences. His career also included review of several papers for scientific magazines.

Conference Venue

The whole programme of the 13th International Scientific Conference MMA2018 - Flexible Technologies will be held in the new building of the Rectorate of the University of Novi Sad, situated just on near of the Danube River.



Central University Building



Main auditorium / Amphitheatre

KEYNOTE PAPER	KEYNOTE PAPERS		
10:30 – 12:00 HALL I (Main auditorium/Amphitheatre)			
Lihui Wang: COMBINING DIGITAL TWIN AND PROGNOSIS IN FACTORIES OF THE FUTURE			
Dušan Šormaz: DISTRIBUTED PROCESS PLANNING FOR DIGITAL MANUFACTURING AND INDUSTRY 4			
Manic, M., Vitkovic, N., Stojkovic, M., Misic, D., Trajanovic, M.: DESIGN OF CUSTOMIZED ANATOMICALLY ADJUSTED IMPLANTS			

Se	Section A: MATERIAL PROCESSING TECHNOLOGIES			
16:30 – 18:00		HALL II (Multifunctional hall) 2nd floor	Session Chair: Pavel Kovač Radovanović Miroslav Kramar Davorin	
1.		ković, P., Radovanović, M., Mladenović ARIABLE COSTS IN CO 2 LASER CUTTING		
2.	OPTIMIZATION	ievic, S., Kramar, D.: OF THE PROCESS PARAMETERS FOR STA FOF THE TURNING PROCESS CAPABILITY		
3.	Gostimirovic, M., Pucovsky, V., Rodic, D., Sekulic, M., Kovac, P.:			
4.	Kokotovic, B., Vorkapic, N.: EVALUATION OF INFEED STRATEGIES FOR TURNING OF LARGE THREAD PROFILES			
5.	Mustafic, A., Lovric, S., Nasic, E., Halilovic, J., Osmic, M., Becirovic, D.: TAGUCHI-BASED GREY RELATIONAL ANALYSIS OF PERFORMANCE CHARACTERISTICS IN THE MQL TURNING PROCESS OF X5CrNi18-10 STEEL			
6.	Rodic, D., Gostimirovic, M., Kovac, P., Sekulic, M., Savkovic, B.: PRINCIPLE OF ELECTRICAL DISCHARGE MACHINING OF NON-CONDUCTIVE ZIRCONIA CERAMICS			
7.	Sekulic, M., Gostimirovic, M., Kulundzic, N., Aleksic, A.: TECHNOLOGICAL CHANGES IN MOLD MAKING INDUSTRY			
8.	Šogorović, D., Vračević, I.: TESTING OF THE ROUGHNESS PARAMETERS IN THE TURNING PROCESS OF ALUMINUM PARTS			
9.	Žiga, A., Begić-Hajdarević, Đ., Cogo Z.: MECHANICAL TOYS AND SOUVENIRS OBTAINED BY CO 2 LASER CUTTING OF PLYWOOD			

Se	Section B: MACHINE TOOLS AND AUTOMATIC FLEXIBLE SYSTEMS, CAx AND CIM PROCEDURES AND SYSTEMS			
13	13:30 – 15:30 HALL I (Main auditorium/Amphitheatre) Session Chair: Petrović B. Petar Zeljković Milan Čiča Đorđe			
1.	Invited paper Zivanovic, S., Slav APPLICATION OF T	kovic, N.: HE STEP-NC STANDARD ISO 10303 AP238 FC	OR TURNING OPERATIONS	
2.		c, M., Krstanovic, L., Ungureanu, N.: DESCRIPTORS FOR REAL TIME TOOL CONDIT	TION MONITORING	
3.	DEVELOPMENT O	I., Gotlih, J., Klancnik, S.: - A SYSTEM FOR MONITORING TEMPERATUR -AT SOURCES INSIDE HEATING DEVICE	RE DISTRIBUTION AND	
4.	ANALYSIS OF LOAD	<mark>ivljević, B.</mark> , Zeljković, M., Živković, A., Savić, D DISTRIBUTION IN DOUBLE-ROW CYLINDRIC MAIN SPINDLE ASSEMBLY	· · · · · · · · · · · · · · · · · · ·	
5.		ocic, A., Lovric, S., Heric, M.: TING UP OF AUTOMATED ASSEMBLY LINES II	N THE AUTOMOTIVE INDUSTRY	
6.	Crnokić, B., Grubišić, M.: FUSION OF INFRARED SENSORS AND CAMERA FOR MOBILE ROBOT NAVIGATION SYSTEM - SIMULATION SCENARIO			
7.	Cica, Dj., Borojevic, S., Sredanovic, B., Tesic, S.: ARTIFICIAL NEURAL NETWORKS MODEL FOR THE PREDICTION OF SURFACE ROUGHNESS IN MACHINING THIN WALLED PARTS			
8.	Hozdić, E.: CYBERNETIZATION OF MANUFACTURING SYSTEMS			
9.	ANALYSIS AND VE	ović, S., Zeljkovic, M., Strbac, B., Mlađenov RIFICATION OF COMPLEX SURFACESS MACHI LLING MACHINE CENTER	-	
10.	Lanc, Z., Zeljkovic, M., Hadzistevic, M., Strbac, B., Zivkovic, A.: DETERMINATION OF EMISSIVITY OF STEEL ALLOY USING INFRARED THERMOGRAPHIC TECHNIQUE			
11.	Matijasevic, L., Milivojevic, M., Petrovic, P.: MULTIFINGERED UNDER-ACTUATED HANDS IN ROBOTIC ASSEMBLY			
12.	Mlađenović, C., Košarac, A., Zeljković, M., Knežev, M.: EXPERIMENTAL DEFINITION OF MACHINING SYSTEMS STABILITY LOBE DIAGRAM			
13.	Vorkapic , N., Kok SYNTHESIS AND A	otovic, B.: NALYSIS OF THE TOOL DYNAMOMETER FOR ⁻	TURNING OPERATIONS	

Sec	Section C: METROLOGY, QUALITY, FIXTURES, CUTTING TOOLS AND TRIBOLOGY			
13	:30 – 15:30	HALL II (Multifunctional hall) 2nd floor	<u>Session Chair:</u> Soković Mirko Hadžistević Miodrag Tanović Ljubodrag	
1.	-	V., Stojadinovic, M., S., Durakbasa, N MEASUREMENT INSPECTION PLANN		
2.	Invited paper Sovilj, B., Sovilj-I TRIBOLOGICAL R	Nikić, S.: ESEARCHES OF GEAR CUTTING PROCI	ESSES OF CYLINDRICAL GEARS	
3.	FABRICATION OF	M., Jotic, G., Anic, J.: AUTHENTIC FUNCTIONAL PARTS FOR REVERSE ENGEENERING AND 3D PRI		
4.	APPLICATION OF	B., Mikić, D., Stanković, N., Petrović, MODEL OF RELIABILITY ON MACHINE ORMAL STATISTICAL DISTRIBUTION		
5.	ANALYSIS OF COI	vić, S., Hadžistević, M., Štrbac, B., Vu l MPARATIVE MEASUREMENT RESULTS ₋ 7075 ALLOY STRUCTURES	-	
6.	Karpe, B., Fercak, Z., Nagode, A., Bavec, B., Kozuh, S.,			
7.	Klimenko, S., Kopeikina, M., Manokhin, A., Melniychuk, Yu., Naydenko, A., Tanovic, Lj.: ENHANCED PCBN TOOLS FOR HARD MACHINING			
8.	Knezevic, I., Bojic, S., Lukic, D., Rackov, M. Cavic, M., Pencic, M., Cako, S.: APPLICATION OF 3D PRINTED FIXTURES FOR WELDING			
9.	Matin, I., Vukelic, D., Hadzistevic, M., Strbac, B., Santosi, Z., Lukic, D.: AN INTEGRATED DESIGN APPROACH FOR PLASTIC PART DEVELOPMENT			
10.	Palic, N., Sharma, V., Zivic, F., Mitrovic, S., Grujovic, N.: TRIBOLOGY STUDY OF ALUMINUM-BASED FOAM			
11.		c, M., Tadic, B., Budak, I., Simunovic, KINETIC FRICTION COEFFICIENT FOR V		
12.	Strbac, B., Bisevac, S., Delic, M., Klobucar, R., Acko, B., Hadzistevic, M.: COMPETENCE ASSESSMENT OF CMMs FOR DIFFERENT MEASURING TASKS			
13.	Velkoska, C., Kuzinovski, M., Tomov, M.: A REVIEW OF THE QUALITY COST STRUCTURE DEFINITION MODELS – THEORETICAL APPROACH			
14.	Velkoska, C., Tomov, M., Kuzinovski, M.: THEORETICAL ASPECTS RELATED TO THE CREATION OF ALGORITHM FOR QUALITY COST MEASUREMENT SYSTEM			

Sed	Section D: PROCESS PLANNING, OPTIMIZATION, LOGISTICS AND INTERNET TECHNOLOGIES IN PRODUCTION ENGINEERING			
16:	16:30 – 18:30 HALL I (Main auditorium/Amphitheatre) Session Chair: Šormaz Dušan Manić Miodrag Jakovljević Živana			
1.		Pejić, V., Borojević, S.: F MACHINING FEATURES OF SWEEP TYF	PE	
2.	SINGLE MOBILI	okić, A., Miljković, Z.: E ROBOT SCHEDULING: A MATHEMATIC, WITH REAL-WORLD IMPLEMENTATION		
3.	MODELING AN	ovišević, V., Čiča, Đ., Sredanović, B.: D SIMULATION OF PRODUCTION PROCE THE PRESS BRAKE	ESSES FOR	
4.	MODIFIED PAR	filosevic, M., Lukic, D., Desnica, E., Tod TICLE SWARM OPTIMIZATION WITH CH NING OPTIMIZATION	- · · · · · · · · · · · · · · · · · · ·	
5.		a S., Cvetkovic, N., Vekic, A., Ljubicic, N D PRODUCTION CONCEPT	Л.:	
6.	Mircheski, I.: DETERMINATION OF DISASSEMBLY INTERFERENCE MATRIX AND IMPROVED NONDESTRUCTIVE DISASSEMBLY SEQUENCES FOR THE PRODUCT			
7.	Mitrovic, S., Dimic, Z., Jakovljevic, Z.: DISTRIBUTED CONTROL OF MANUFACTURING RESOURCES – SECURITY RELATED ISSUES			
8.	Moraca, S., Cvetkovic, N., Fajsi, A., Gracanin, D., Suzic, N.: SCHEDULING IN PROJECT-BASED MANUFACTURING ENVIRONMENT			
9.		e <mark>leč, A.:</mark> OLUTION FOR FLEXIBILITY IMPROVEME YSTEM IN WOOD PROCESSING SECTOR	ENT OF	
10.	Ristić, M., Manić, M., Kosanović, M., Pavlović, M.: PARAMETRICALLY DESIGNED PRODUCT MANUFACTURABILITY ANALYSIS USING KNOWLEDGE BASED SYSTEM			
11.	Ristovska, B., Papazoska, E., Gecevska, V.: IMPROVING MANUFACTURING PROCESS BY OPTIMIZING TIME PARAMETERS			
12.	Skenderovska, T., Gecevska, V., Polenakovik, R.: INCREASING PRODUCTION CAPACITIES THROUGH THE DEVELOPMENT AND INTEGRATION OF THE 5 STAGE PROJECT MANAGEMENT METHODOLOGY			
13.	Sormaz, D., Gouveia, R., Sarkar, A.: RULE BASED PROCESS SELECTION OF MILLING PROCESSES BASED ON GD&T REQUIREMENTS			
14.	EXPERIMENTAL	kic, D., Borojevic, S., Milosevic, M., Kra . RESEARCH OF THE INFLUENCE OF HIGI ON TIME AND SURFACE ROUGHNESS OF	H-SPEED MACHINING	

Se	Section E: MATERIALS, METAL FORMING, CASTING AND WELDING			
13:	30 - 15:30	HALL III (Multifunctional hall) 1st floor	<u>Session Chair:</u> Škorić Branko Ranđelović Saša Baloš Sebastian	
1.		r ic, K.: T PROPERTIES OF A CRACK IN WELD ME METAL OF WELDED ARMOR STEEL	ETAL,	
2.		irjanović, D., Štorga, M., Bojčetić, N.: METAL FORMING TOOLS DESIGN		
3.	IMPROVEMENT	Opran, C. G., Ćuković, S., Pleşa, M.: IS AND MATERIALS FOR PRODUCTION C UMP: AN OVERVIEW AND RECOMMENI		
4.		erek, P., Miletić, A., Kukuruzović, D., Šl COMPUTATIONAL GRID DENSITY ON RE		
5.	Panjan, P., Čeka ESTIMATION O	., Terek, P., Kovačević, L., Škorić, B., Ba l ada, M., Miletić, A.: F SOLDERING TENDENCY OF AL-ALLOY T NDIDATE COATING FOR HPDC TOOLS		
6.	MECHANICAL A	njan, P., Cekada, M., Terek, P., Kovacevi NND TRIBOLOGICAL PROPERTIES OF IND IN HARD CERAMIC COATINGS		
7.	Miletic, O., Tod ANALYTICAL-EX PROFILIZATION	PERIMENTAL DETERMINATION OF INSP	PECTION AT	
8.		., Movrin, D., Skakun, P., Stefanović, Lj. S ON PROCESS OFCOMBINED FORWAR		
9.	I	ramicanin, M., Janjatovic, P., Ristic, M. TOOL GEOMETRY ON FRICTION STIR W		
10.	l	ovanović, M., Uran, M., Trivković, Lj.: INTERNATIONAL WELDING COORDINAT	TORS	
11.	Randjelovic, S., Milutinovic, M., Mladenovic, S., Blagojevic, V.: FEM ANALYSIS OF DIE PLATE AT PIERCING AND BLANKING TOOL			
12.	Ristic, M., Rajnovic, D., Macas, M., Balos, S., Sidjanin, L., Pecanac, M.: THE STUDY OF THE CONTAMINATED SURFACE LAYER OF HIP TREATED SUPERALLOY IN100			
13.	Simonović, S.: ON OPTIMIZATION OF ATOMIC FORCE MICROSCOPE CANTILEVER DESIGN WITH RESPECT TO ITS MECHANICAL REQUIREMENTS			
14.	WITH RESPECT TO ITS MECHANICAL REQUIREMENTS Trajanoska, B., Gavriloski, V., Doncheva, E.: DEVELOPING AND TESTING HYBRID GLASS TO STEEL STRUCTURAL ELEMENTS – FLEXIBLE DESIGN APPROACH			

Se	Section F: MECHANICAL ENGINEERING AND ENVIRONMENTAL PROTECTION			
16:	30 – 18:30	HALL III (Multifunctional hall) 1st floor	Session Chair: Cvetićanin Livija Prica Miljana Agarski Boris	
1.	Ašonja, A., Mik FACILITIES WIT	k ić, D.: H RES ON PUBLIC BUILDINGS IN THE CIT	TY OF NOVI SAD	
2.	DEVELOPMENT	nović, B., Miletić, D.: OF MATHEMATICAL MODEL FOR OPTII OF TECHNOLOGICAL DEVELOPMENT C		
3.	Cveticanin, L.,	Zukovic, M.: - MASS-IN-MASS UNITS OF THE ELASTIC	CMETAMATERIAL	
4.	ELV MANAGING EQUIPMENT, H	lić, M., Pavlović, A., Nikolić, M.: G THROUGH ANALYSIS OF RESOURCE C <i>A</i> UMAN RESOURCE AND FINANCIAL SUP		
5.	THE USE OF IN	S., Dobrovolska, L., Aleksenko, B.A.: FERNAL DISSECTORS IN THE PROCESS ON OF ADSORBENTS BY MEANS OF THE MEANS		
6.		uric, S., Hadzistevic, M.: .OWS AND MANAGEMENT OF HAZARD	OUS WASTE IN COMPLEX SYSTEMS	
7.		E OF HEAT AND ELECTRIC ENERGY BY N OF MUNICIPAL SOLVENT AND AGRICU	JLTURAL WASTE	
8.	Ilic Micunovic, M., Agarski, B., Hadzistevic, M., Kosec, B., Vukelic, D.: COMPARABILITY OF LIFE CYCLE ASSESSMENT RESULTS IN TYPE III ENVIRONMENTAL DECLARATIONS			
9.	Karanovic, V., Andric, S., Jocanovic, M., Orosnjak, M., Bugaric, U.: IMPORTANCE OF OFFLINE FILTRATION SYSTEM USE			
10.	Kecic, V., Prica, M., Kerkez, Đ., Becelic -Tomin, M., Kulic, A., Leovac Macerak, A., Dalmacija, B.: APPLICATION OF A DEFINITIVE SCREENING DESIGN TO MAGENTA DYE DEGRADATION BY HOMOGENEOUS FENTON PROCESS			
11.	Kovács, R., P.,V., Keszthelyi -Szabó G., Szendrő P.: ENHANCING BIOGAS PRODUCTION KINETIC OF WASTEWATER BY MICROWAVE PRE -TREATMENT			
12.	Krnjetin, S., Šupić, S.: CONSTRUCTION WITH BALED STRAW - FIRE SAFETY			
13.	Raspudic, V., Mikulic, Z.: OPTIMUM DESIGN OF I-SHAPED CROSS-SECTION USING NONLINEAR PROGRAMMING			
14.	Živanić, D., Gajić, A., Zelić, A., Ilanković, N.: FLAT BELT FEEDER REGULATION POSSIBILITIES			

Se	Section G: BIO-MEDICAL ENGINEERING			
18:00 – 19:00		HALL III (Multifunctional hall) 1st floor	<u>Session Chair:</u> Kosec Borut Tabaković Slobodan Budak Igor	
1.		M., Todić, V., Mladjenović, C., Beju, L. D AL PREPARATION OF THE ENDOPROSTH	-	
2.	Kosec, B., Karpe, B., Vodlan, M., Kopac, I., Budak, I., Pavlic, A., Puskar, T., Zupancic, K., Fir, B., Gojic, M., Nagode, A.: THERMAL PROPERTIES OF TITANIUM ALLOYS USED IN DENTAL MEDICINE			
3.	Puškar, T., Budak I., Jakimov, D., Djurović Koprivica, D., Koji ć, V., Ilić Mićunović, M.: TESTING BIOCOMPATIBILITY OF BONE SUBSTITUTE BY FLUORESCENT MICROSCOPY			
4.	4. Sekulic, J., Grujic, J., Maric, D., Zeljković, M., Tabakovic, S., Balos, S.: TESTING BIOCOMPATIBILITY OF MATERIAL FOR IMPLANTS			
5.	Trajanovic, M., Tufegdzic, M.: TRENDS IN PRODUCING PERSONALIZED BONE IMPLANTSUSING ADDITIVE MANUFACTURING			
6.	Zigic, M., Grahe ESTIMATION O	ovac, N.: F HUMAN BODY PARTS ORIENTATION U	SING DATA FROM IMU SENSORS	

Conference Dinner

Friday, September 28, 2018, 20h

Alaska barka, Ribarsko ostrvo 4, 21000 Novi Sad https://ribarskoostrvo.rs/alaska-barka/



Located on the bank of the Danube River, away from the city bustle, yet only 3 km away from the city center



Conference Sightseeing Tour

Excursion to Petrovaradin Fortress and Sremski Karlovci Saturday, September 29, 2018

Departure in front of the Central University Building (Rectorate) at 11:00.

Departure to Petrovaradin. Walking through the town high street we will learn about the birth house of Josip Jelačić who came to be Croatian national hero, the seat of the "šajkaši" river navy and the old building in which the toll for crossing the Danube was charged.

Next we arrive to the Roman Catholic church of St George with its baroque altar and graves of local nobles, as well as to its cloister.

We will climb up the 214 steps to the fortress plateau wherefrom we will descend into its underground where we will spend around 45 minutes discovering its secrets. Be sure to wear warm clothes.

After enjoying the panorama of Novi Sad below us we will stroll pass the ateliers of local artists. On a nice and peaceful spot we will talk about Petrovaradin's long history.



We continue to Sremski Karlovci, the center of Serbian education, spirituality and culture in the period from the Great Emigration of Serbs until the beginning of the 20th century. Visit of the most important cultural and historical sights with a guide (Saborna crkva, Karlovačka gimnazija, Bogoslovija, fountain Four Lions, Patriarchal Palace). After walking through the center of Karlovci, we are going to have wine tasting and lunch at the **Dulka wine house**.



Conference Sightseeing Tour

The friendly hosts will welcome you with homemade brandy. "Dulka Winery" is one of the oldest wineries in Vojvodina, the first registreted in the modern era of winemaking. It's history dates from the year 1920, when family great grandfathers inherited the business from their parents and become a part of the Great Cooperation of wine makers in Sremski Karlovci. Since then, thay nourished their vineya rds in cooperation with larger producers, developing their own processing facilities. Today, fourth and fifth generation are working together to the best of their abilities. " Dulka Winery " today has 10 acres of vineyards comprised of leading world sorts, u p-to-date processing and storing systems for grapes. The whole winery, including the house turned in to the museum, is a testimony of how wine was made in the old days, together with the wine cellars.

Here we will have the opportunity to see the old tools for the production of wines, we will visit the top of underground from where we will have a view of the Chapel of Peace, where in 1699 was signed a famous Karlovac peace between Austria and its allies on one side and Turkey with its allies on the other side. After that, we will taste six types of wine with snacks and enjoy the traditional lunch in Vojvodina - a goulash with a noodle.

After lunch, return to Novi Sad around 16:30.



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