



9th International Scientific and
Expert Conference
TEAM 2018

**CONFERENCE
PROGRAMME**

University of Novi Sad, Serbia
Faculty of Technical Sciences
Department of Industrial Engineering and Management
October 10-12, 2018

TEAM 2018 - 10th October, Wednesday, Day 1

17.30 – 18.00	PARTICIPANTS REGISTRATION	Ceremonial Hall – Ground floor Faculty of Technical Sciences
18.00 – 19.30	WELCOME COCKTAIL	Club Masinac Faculty of Technical Sciences
19.30	GENERAL ASSEMBLY OF THE INTERNATIONAL TEAM SOCIETY	Ceremonial Hall – Ground floor Faculty of Technical Sciences



Building No. 10 – Faculty of Technical Sciences – Trg Dositeja Obradovića 6

TEAM 2018 - 11th October, Thursday, Day 2

9.00 – 09.30	PARTICIPANTS REGISTRATION	Ceremonial Hall – Ground floor Faculty of Technical Sciences
09.30 – 10.00	OPENING CEREMONY, WELCOME ADDRESS	Ceremonial Hall – Ground floor Faculty of Technical Sciences
Prof. dr. Rade Doroslovački	Dean of the Faculty of Technical Sciences	
Prof. dr. Bojan Lalić	Head of the Department of Industrial Engineering and Management	
Prof. dr. Dražan Kozak	President of the TEAM Society	
10.00 – 11.00	PLENARY SESSION: TEAM 2018 Keynotes	Ceremonial Hall – Ground floor Faculty of Technical Sciences
Prof. dr. Lóránt Kovács	The Kecskemét Model of Dual Higher Education	
P. Monka, K. Monkova, R. Hricova, M. Edl, H. Zidkova, V. Duchek	Possibilities of NC Program Creation within Information System Designed under Industry 4.0 Requirements	
11.00 – 11.30	COFFEE BREAK	Club Masinac Faculty of Technical Sciences
11.30 – 13.00	SESSION 1 – TECHNIQUE I Chair Person: Prof. dr. Sergej Hloch	Ceremonial Hall – Ground floor Faculty of Technical Sciences
B. Bajić, I. Ćosić, M. Lazarević, N. Sremčev, A. Rikalović	Machine Learning Techniques for Smart Manufacturing: Applications and Challenges in Industry 4.0	
I. Putnik, I. Opačak, V. Starčević, T. Özkan	Quality Estimation of the Boiler Steel 13CrMo4-5 by the Metallographic Replica Method	
S. Kotšmíd, P. Beňo	Experimental Determination of the Beam Buckling Load	
V. Milovanović, M. Živković, G. Jovičić	Comparative Stress Analysis of an Artillery Projectile Body	
I. Sever, I. Ćurković, I. Žmak	Sintering of Slip Cast Composite Al ₂ O ₃ - ZrO ₂ Ceramics	
S. Kirin, D. Kirin, A. Sedmak	LEAN Approach and Risk Management	
J. Bárta, B. Šimeková, M. Marõnek, M. Sahul	Welding of 2099-T83 Aluminium - Lithium Alloy by Electron Beam	
11.30 – 13.00	SESSION 2 – EDUCATION Chair Person: Prof. dr. Krunoslav Miroslavljević	Ceremonial Hall – Third floor Faculty of Technical Sciences
A. Kulaš Miroslavljević, M. Gavran	Nonverbal Communication and Body Language in the Business Environment	
N. Dubreta, L. Bulian	Employers' Perspective on Employability Skills of Croatian Engineering Graduates	
E. Csizmás, T. Vajnai, C.I. Fábán	Experiments with a Randomized Method for Probability Maximization	
M. Žižakov, S. Vulcanović, M. Delić, B. Kamberović, V. Vrhovac	Relationship between Knowledge Management and Innovation Performance: A Literature Review	
V. Bartolović, V. Vučemilović, M. Kuntić	Active Labour Market Policy Programs for Young People in the Republic Of Croatia	
E. Angeli, E. Török, D. Nagy	Evaluation of Students in Dual Higher Education	
Lj. Duđak, L. Grubić-Nešić	Use of Digital Media with an Aim of Improving the Teaching Process	

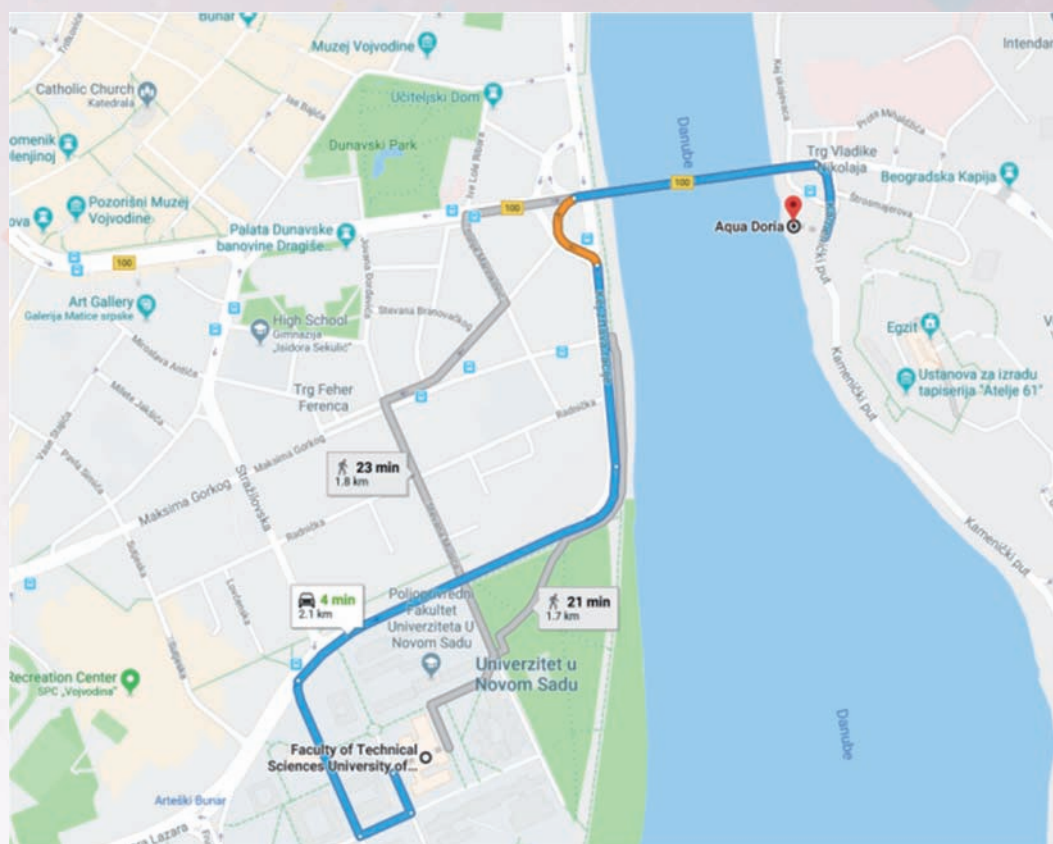
13.00 – 14.00	LUNCH	Club Masinac Faculty of Technical Sciences
14.00 – 15.30	SESSION 3 – TECHNIQUE II Chair Person: Prof. dr. Antun Stoić	Ceremonial Hall – Ground floor Faculty of Technical Sciences
D. Liović, D. Kozak, G. Matanić	Structural Analysis and Optimization of the Doors on the Falns Freight Wagon	
B. Stevanov, Z. Tešić, M. Georgijević	Model Development for the Control of Warehouse Operations With the Usage of RFID	
M. Rauch, M. Holik, A. Barac, A. Galović	Exergy Destruction Minimisation of a Regenerative Brayton Cycle	
S. Kladarić, I. Kladarić, M. Gudelj, M. Pejnović	The Effect of Carburizing on the Properties of Steel 20MnCr5 And 18CrNi8	
N. Zivlak, W. Braun	BMW's Car-Sharing Services in China and Germany using Service Innovation	
S. Minárik, O. Bošák, E. Labašová, V. Labaš, S. Lukič-Petrovič	Spline Interpolation of SRIM Data for Quantitative Rutherford Back Scattering Analysis	
T. Kovacs, E. Csizmas, R. Alvarez Gil	Effect of the Arrival Frequency Process on the Link Performance Function of a Signalized Intersection	
14.00 – 15.30	SESSION 4 – AGRICULTURE Chair Person: Prof. dr. Viktor J. Vojnich	Ceremonial Hall – Third floor Faculty of Technical Sciences
G. Ostojić, S. Stankovski, S. Tegeltija, B. Tejić, I. Baranovski	IoT Application in Agro-Industry*	
V.J. Vojnich, Cs. Szabó, J. Pető, A. Hüvely, A. Palkovics	The New Insect Pest Released by the Climate Change in Hungarian Agriculture	
I. Opačak, A. Marušić, P. Kljajić, V. Marušić	Analysis of Possible Tribological Losses during Stemming of Tobacco	
Zs. Turiné Farkas, J. Pető, A. Hüvely	The Effect of Nutrient Supply on the Decorative Value of Petunia	
I. Medojević, D. Marković, V. Simonović, A. Joksimović	Application of Machine Learning in the Color Sorting of Agricultural Products	
J. Pető, A. Hüvely, A. Palkovics, V.J. Vojnich	Investigation of Some Soil Physical Parameters of the New Plantations in the South - Eastern Part of Hungary	
Á. Ferencz, Zs. Deák, V.J. Vojnich	Local Effects of Climate Change on the Sand Dunes of Hungary	
*Plenary invited lecture		
15.30 – 16.00	COFFEE BREAK	Club Masinac Faculty of Technical Sciences
16.00 – 17.30	SESSION 5 – TECHNIQUE III Chair Person: Prof. dr. Pavel Beno	Ceremonial Hall – Ground floor Faculty of Technical Sciences
Z. Domotor, L. Kovacs, R. Drenyovszki	Approximation of the On-state Probability of Electrical Appliances by Radial Basis Function Neural Network	
I. Grgić, Ž. Ivandić, D. Šotola, D. Kozak, M. Karakašić	Thread Inspired 3D Printed Clamps for in vitro Biomechanical Testing	
Z. Švigelj, L. Čurković, V. Mandić, V. Rede, B. Bušetinčan	Preparation of Alumina Foams by the Polyurethane Sponge Replica Method	

D.R. Barjaktarević, M.P. Rakin, B.I. Međo, V.R. Đokić	Nanoindentation Study of Ultrafine-Grained Titanium-Based Materials
A. Kumar Agrawal, S. Hloch, D. Kozak, S. Chattopadhyaya	Wear Debris Analysis of Gear Oil Used in Tunnel Boring Machine
S. Boucetta, Z.C. Johanyák, A. Bouzid	Survey on Vehicular Ad-hoc Networks

16.00 – 17.30	SESSION 6 – MANAGEMENT Chair Person: Prof. dr. Erika Török	Ceremonial Hall – Third floor Faculty of Technical Sciences
S. Knežević, L. Duspara, D. Ezgeta	The Unemployment Problem and Its Consequences in the Republic of Croatia*	
D. Blažić, M. Delić, I. Čosić, V. Vrhovac, M. Žižakov	Examining the Impact of Lean Tools on Time-Based Efficiency and Inventory Performance in the Conditions of Transitional Economy	
I. Blažević, S. Anđelić, J. Jukić	The Impact of Globalization on Further Development of Electronic Commerce	
L. Grubić-Nešić, S. Mitrović Veljković, Lj. Duđak	Soft Skills as the Basis for the Development of Professional Competencies	
B. Jakanović, B. Bogojević, I. Katić	Knowledge Transfer in Virtual Teams	
A. Nešić, D. Lalić	The Role of Trust in Knowledge Sharing Among Employees	

*Plenary invited lecture

20.00 – Official Conference Dinner – Restaurant AQUA DORIA	Under Petrovaradin Fortress on the Danube River bank
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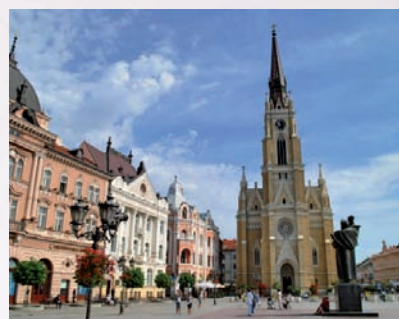


Restaurant AQUA DORIA, Kamenički put bb, Petrovaradin

TEAM 2018 - 12th October, Friday, Day 3

09.00 – 10.45	SESSION 7 – TECHNIQUE IV Chair Person: Prof. dr. Milan Maronek	Ceremonial Hall – Ground floor Faculty of Technical Sciences
A. Sghayer, A. Grbović, A. Sedmak	Numerical Simulations of Crack Growth in Integral Stringer Panel Using XFEM	
D. Marić, D. Žubrinić, T. Šolić, M. Duspara, A. Stoić, I. Samardžić	Machine Overlay Welding of Single Tubes	
S. Cako, M. Čavić, I. Knežević, M. Penčić, M. Rackov, S. Bojić	Safety Mechanism for Stubble Cultivators: Kinematic and Dynamic Analysis	
D. Smojvir, M. Duspara, K. Stoić, A. Stoić, M. Stoić	Cutting Forces in Interrupted Hard Turning	
I. Lacković, S. Šimunić, M. Matanović, D. Križan, A. Vrhovac	Product Development in the Case of Device for Plate Rotation	
M. Sahul, M. Sahul, J. Bárta, M. Marônek	Laser Welding of AW2099 Al-Li Alloy with Al-Mg Filler Metal	
D. Babić, T. Lolić, D. Stefanović, S. Ristić	Migration from TIBCO BW5 to TIBCO BW6 Integration Platform	
M. Anđelović, S.A. Sedmak, S. Kirin, B. Đorđević, N. Milovanović	Implementation of Lean Principles in Mining Industry – Case Studies	
09.00 – 10.45	SESSION 8 – TEAM Chair Person: Prof. dr. Danijela Gračanin	Ceremonial Hall – Third floor Faculty of Technical Sciences
U. Marjanović, S. Tegeltija, N. Medić, M. Lazarević, N. Tasić, B. Lalić	Content Development for Virtual Reality Training*	
Zs. Deák, F. Árpád, V.J. Vojnich	Evaluation and Development Opportunities for Short Food Supply Chains in Hungary	
R. Benković, B. Japundžić Palenkić, T. Benković Lačić	Structure of Farmers Education and Knowledge about Importance of Melioration Interventions	
S. Todorović, M. Radišić, D. Stefanović	The Differences between IT and Non-IT Companies with Respect to Internal Additional Compensations	
B. Sokolović, B. Milić, I. Katić	Organizational Culture In e-Learning: A Key for Business Success	
M. Lazarević, U. Marjanović, S. Tegeltija, M. Medojević, B. Lalić	The Importance of Working Instructions as a Part of the LEAN Initiative	
M. Stanić, M. Stanić Šulentić, M. Palković	Development of Rural Tourism in the Municipality of Oriovac	
M. Ferenčak, D. Dobromirov, M. Radišić	Employment Status and Risk Aversion: Do Money-Makers Care More for the Money?	
*Plenary invited lecture		
10.45 – 11.15	COFFEE BREAK	Club Masinac Faculty of Technical Sciences

11.15 – 12.00	POSTER SESSION	Ceremonial Hall – Ground floor Faculty of Technical Sciences
V. J. Vojnich, A. Palkovics, A. Hüvely, J. Peto	Effect of Nitrogen Fertilizer Treatment on the Production of Hydroponic Lettuce	
D. Berić, D. Sekulić, T. Lolić, D. Stefanović	Evolution of ERP Systems in SMEs – Past Research, Present Findings and Future Directions	
B. Japundžić-Palenkić, K. Jagodar, N. Romanjek Fajdetić, Lj. Božić-Ostojčić	Effect of Growing Media on Tagetes Patula Nana Plants Quality	
I. Mikulić, K. Stoić, M. Stoić, A. Stoić	Modelling and Simulation of Deformation of Cutting Tool during Cutting	
K. Monkova, P. Monka, J. Tkac	CAX Systems within the Engineering Educational Process	
A. Vekić, J. Borocki, A. Fajsi	Importance of Innovations in Business Ecosystem	
M. Ernješ, D. Zima, T. Benković-Lačić, K. Mirosavljević	UV-VIS Determination of Polyphenols and Flavonols in Slavonian Propolis	
A. Fajsi, S. Morača, J. Borocki, A. Vekić	The Evolution of Localized Industrial Clusters into Innovative Global Networks	
D. Čirić, D. Gračanin, N. Cvetković, A. Fajsi, I. Graić	Agile Project Management beyond Software Development: Challenges and Enablers	
H. Sivrić, T. Lopac, J. Vujčić	The Effect of a Football Treatment on Morphological Characteristics of Football Players NK „Otočac“	
N. Radojčić, N. Simeunović, N. Cvetković, J. Čurčić, S. Rakić	Measuring Student Satisfaction with e-Learning Platform	
L. Tarjan, B. Tejić, S. Tegeltija, I. Šenk, N. Đukić	Testing the Range of a LPWAN IoT RF Module Based on the Texas Instruments CC1200 Chip	
12.00 – 13.00	CONFERENCE CLOSING REMARKS	Ceremonial Hall – Ground floor Faculty of Technical Sciences
13.00 – 14.00	LUNCH	Club Masinac Faculty of Technical Sciences
14.00 – 17.00	GUIDED TOUR OF NOVI SAD	



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