



UNIVERSITY OF ZENICA

FACULTY OF MECHANICAL
ENGINEERING IN ZENICA
(Bosnia and Herzegovina)



UNIVERSITAT POLITÈCNICA
DE CATALUNYA



E.T.S.E.I. de BARCELONA
DEPARTAMENT
D'ENGINYERIA MECÀNICA
(Spain)



BAHÇEŞEHİR UNIVERSITY
ISTANBUL

MÜHENDİSLİK FAKÜLTESİ
(Turkey)

**21ST INTERNATIONAL
RESEARCH/EXPERT CONFERENCE
“TRENDS IN THE DEVELOPMENT OF
MACHINERY AND ASSOCIATED
TECHNOLOGY”**

TMT 2018

Final program

**18 - 22 September 2018.
Hotel Thermal, Karlovy Vary, Czech Republic**

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Kemal Arifovic, IT support

MAIN TOPICS

1. MANUFACTURING TECHNOLOGIES AND MATERIALS

3D Printing and Additive Manufacturing Technologies (Fused Filament Fabrication, Stereolithography, Selective Laser Sintering ...); Assembly and Disassembly; Machining; Nonconventional Machining; High Speed Machining; Dry Cutting, MQL Machining; High Performance Machining; Rapid Prototyping, Micromachining, Manufacturing Processes; Welding Processes; Plastic Forming Processes; Materials; Engineering of Polymers; Powder Metallurgy; Measuring; Thin & Thick Coatings; Surface Engineering; Molding Processes; CAM technologies; ...other subtopics

2. INDUSTRIAL ENGINEERING

Diagnostic; Expert Systems; Autonomous Systems; Environmental Design; Reengineering; Knowledge Based Systems; Robot Applications; Mobile Robots; Optimizations, Reliability, Safety, Production Systems, Agile Manufacturing, Concurrent Manufacturing; Control, Flexible Manufacturing Systems; Hybrid Manufacturing Systems; CAP technologies; CIM technologies; Knowledge Management, Project Management, Production Management Systems, Quality Management, TQM, Maintenance, Nondestructive Testing, Operational Research Applications in Production, Scheduling, Supply Chain Management, Logistics, Electrical Engineering, Power Systems, Energetic; Ecology, Environmental Engineering ...other subtopics

3. APPLIED TECHNOLOGIES AND SOFTWARE ENGINEERING

Software Engineering Applications, Sensors; Industrial Robots; Microrobotics; Programming; Simulations, Virtual Manufacturing; Industrial Automation; Hardware & Software; Signal Processing, Networking; Neural Network; Artificial Intelligence, Engineering Education Systems ...other subtopics

4. MECHANICAL CONSTRUCTIONS & DESIGN

Design and Construction; Design Automation; Robots-Kinematics, Dynamics; Mechanism; Numerical Methods; Optimal Design, Tolerance Analysis; CAD technologies; Environmental Design, Fluid Mechanics, Mechatronics ...other subtopics

TYPE OF PRESENTATION

ORAL PRESENTATION is limited to 10 minutes + 5 minutes for discussion. Presenters can use overhead transparencies or PowerPoint slide shows.

CONFERENCE DATE AND VENUE

The conference will be held from 18th to 22nd September 2018 at the SPA hotel Thermal **** Karlovy Vary, Czech Republic (<http://www.thermal.cz/en/thermal-hotel-karlovy-vary>).

About Karlovy Vary, Czech Republic

Karlovy Vary is a world famous spa resort in the northwestern part of the Czech Republic. It is located 130 km from the capital of Prague. Karlovy Vary is one of the most famous Central European spa resorts and tourist resorts and one of the most beautiful Central European cities. It is famous for the renowned medicinal thermal springs of thermal water and colonnades (Termal Spring, Market Colonnade), Grand Hotel Pupp, St. Mary Magdalene, the Russian Church of St. Peter and Paul. Numerous famous writers, composers and other historical personalities who have stayed in this bath (Karlo IV, Goete, Mozart, Peter the Great), as well as most Hollywood actors who visit Karlovy Vary every year for the film festival. They are famous for the famous Karlovarská Becherovka liquor, discovered 200 years ago, in Karlovarsk county, from medicinal sources, etc.

Karlovy Vary is the most beautiful spa town in the heart of Europe
Colonnades with mineral springs, remarkable monuments, green parks and a special atmosphere... All that and much more makes Karlovy Vary one of the most beautiful spa towns you can visit

CONFERENCE FEE

The conference fee is: **200,00 EUR+ 25,00 EUR (for poster presentation).**

The conference fee includes the following: a copy of TMT Conference Proceedings and accompanying materials, admission to all sessions and presentations, refreshments, Gala dinner and welcome drink.

CORRESPONDENCE

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ACCOMMODATION

Dear colleagues
TMT 2018 Organizing Committee wish to inform all possible participants and travelers in the Karlovy Vary, Czech Republic the Centrotours travel agency responsible for the overall organization of the tourist part of the trip.

All reservation as well as additional information can be found on:

CONTACT

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18-22 September 2018, Karlovy Vary, Czech Republic



SCHEDULE OF EVENTS

TUESDAY September 18th

19.00 – 21.00 Registration and Welcome Drink - Hotel Thermal

WEDNESDAY, September 19th

08.30 – 09.00 Registration of Conference Participants

09.00 – 09.15 Conference Opening

09.15 – 10.45 Papers Presentations

10.45 – 11.15 Coffee Break

11.15 – 12.45 Papers Presentations

12.45 – 13.15 Coffee Break

13.15 – 14.45 Papers Presentations

THURSDAY, September 20th

09.00 – 10.30 Papers Presentations

10.30 – 11.00 Coffee Break

11.00 – 12.30 Papers Presentations

12.30 – 13.00 Coffee Break

13.00 – 14.30 Papers Presentations

14.30 – 15.00 Posters Presentations

19.00 - Conference Dinner

SCHEDULE OF PAPERS PRESENTATIONS

WEDNESDAY, September 19th

09.00 – 09.15 Conference Opening

Chairmen: Sabahudin Ekinovic, Irene Buj-Corral, Ali Gungor

WEDNESDAY, September 19th Manufacturing Technologies, Materials

09.15 – 10.45 Papers presentations session

Chairmen: Irene Buj-Corral, Ali Gungor

1. Influence Of Fused Deposition Modeling (FDM) Parameters On Surface Finish Of Plastic Parts
Irene Buj-Corral, Lluís Marco-Almagro, Lourdes Roderode-Lamo, Alejandro Domínguez-Fernández (Spain)
2. Taguchi Based Screening Approach In The MQL Turning Process Of X5 CrNi 18-10 Stainless Steel
Sabahudin Ekinović, Edin Begović, Muhamed Mehmedović, Adnan Mustafić (B&H)
3. Modeling Of Cutting Forces In Ball-End Milling Using Response Surface Methodology And Genetic Algorithm
Milenko Sekulić, Marin Gostimirović, Miodrag Hadžistević, Vlastimir Pejić (Serbia, *B&H)*
4. The Application Of Minimum Quantity Lubrication (MQL) During Machining Process
Sabahudin Ekinović, Edin Begović, Mario Dragičević (B&H)
5. Application Of Numerical Simulation For Optimization Of Deep Drawing Technology On The Example Of Redesigned Filter Cup
Ibrahim Plančić, Edin Begović, Sabahudin Ekinović, Amina Ramić (B&H)
6. Effect Of Injection Molding Parameters On Weld Line Tensile Strength
Edis Nasić, Emir Šarić, Jasmin Halilović, Džemal Kovačević (B&H)
7. Measurements Of Force In Non-Conventional Method Of Joining Materials
Nikola Šibalić, Milan Vukčević, Milanko Damjanović (Montenegro)
8. Technical And Economic Aspects Of Pulsed Mig Welding Of Al 5754
Petar Tasić, Damir Hodžić, Ismar Hajro (B&H)
9. Key Parameters Of Selection And Calculation Of Measurement Uncertainty Of Coriolis Flow-Meter
Hazim Bašić, Almira Softić, Emir Baralić (B&H)
10. Corrosion Behaviour Of Steel Nitronic 60 In Relation To Steel 316l
Almaida Gigović-Gekić, Farzet Bikić, Hasan Avdušinić (B&H)
11. Effects Of Building Condition On The Tensile Property Of Timberfill Parts
Mohammad Damou Zandi, Ramón Jerez Mesa, J. Antonio Travieso Rodriguez, Jordi Llumà i Fuentes (Spain)

1. The Working Temperature Influence To Isothermal Treated Ductile Iron Tensile And Impact Strength
Šehzudin Dervišić, Hasan Avdušinović, Ajla Huseljić, Fuad Hadžikadunić (B&H)
2. The Influence Of Aluminum-Chrome Phosphate On Compressive Strength Of Refractory Materials
Nadira Bušatlić, Ilhan Bušatlić (B&H)
3. Influence Of Skin-Pass Rolling On Strength And Ductile Properties Of Explosive Welded Three-Layers Strip
Omer Beganović, Branka Muminović, Melisa Šabanović (B&H)
4. Microstructure And Mechanical Properties Of Nickel Free Austenitic Stainless Steels Produced By Addition Of Nitrided Ferroalloys During Melting In Induction Furnace
Jasmin Halilović, Samir Butković, Edis Nasić, Džemal Kovačević (B&H)
5. Microstructure And Hardness Of Two Materials For Hammer Of Mills
Belma Fakić, Branka Muminović, Armin Husika (B&H)
6. Friction And Hardness Characteristics Of Fdm-Printed Plastic Materials
Sahar Zhiani Hervan, Zeynep Parlar, Vedat Temiz, Atakan Altunkaynak (Turkey)
7. Thermal Stability Of Austempered Ductile Iron
Hasan Avdušinović, Almajda Gigović-Gekić, Šehzudin Dervišić (B&H)
8. Ionic Liquids VS. Conventional Hydraulic Oils A Comparison Of Properties And Challenges
Darko Lovrec (Slovenia)
9. Effect Of Solar Energy In Reducing Carbon Footprint
Ismet Faruk Yaka, Abdulkadir Kocer, Afsin Gungor (Turkey)
10. Determination Of Hydrogen Production Potential From Greenhouse Wastes By Gasification Antalya Example
Abdulkadir Kocer, Ismet Faruk Yaka, Afsin Gungor (Turkey)
11. Calculation And Analysis Of Air Emission From Future Thermal Power Plant Using Gaseous Fuels In Zenica
Šefket Goletić, Jakuta Imširović (B&H)
12. Comparison Of Efficiency Of Reactor And Non-Reactor Composting Systems Of Sludge And Biowaste
Muvedet Šišić, Nusret Imamović, Šefket Goletić (B&H)
13. Structural And Optical Properties Of Y-Doped ZnO Films By SOL-GEL Process
Rabia Jbeli, Ali Güngör, Doğan Akcan, Lütfi Arda (*Tunisia, Turkey)*
14. Preparation, Growth, And Microstructural Properties Of Cr Doped ZnMgO Thin Films
Lütfi Arda, Mehmet Can Alphan, Cihat Boyraz, Doğan Akcan (Turkey)
15. Effect Of Temperature And Film Thickness On Residual Stress And Microstructure Of ZnO Thin Films
Murat Tosun, Senol Ataoglu, Cengiz İpek, Lütfi Arda, Cihat Boyraz (Turkey)

1. Mesoscopic Modeling Of Freezing Of Supercooled Water
Edin Berberović (B&H)
2. Volume-Of-Fluid Method For Interface Capturing In Free-Surface Flow Hydrodynamics In OpenFOAM®
Edin Berberović (B&H)
3. Supplier Selection With Ahp- Topsis Combination In Natural Gas Combined Cycle Power Plant
Evrencan Özcan, Emir Hüseyin Özder, Tamer Eren (Turkey)
4. New Technologies And Renewable Energy Sources
Zorka Jugović, Danijela Pecarski, Zoran Jevremović (Serbia)
5. Analysis Of Alternative Solutions For The Utilization Of Wind Energy Using Benefit/Cost Method
Milan Vukcevic, Nikola Sibalic, Budimirka Marinovic, Milanko Damjanović (Montenegro, *B&H)*
6. Optimal Business Model For Waste Heat Recovery From A Hydropower Plant
Aleš Hribernik, Boštjan Gregorc, Tanja Markovič Hribernik (Slovenia)
7. Evaluation Of ORC System For Harvesting Rejected Heat Of IC Engine
Aleš Hribernik (Slovenia)
8. Analysis Of Risk Management In Control Of Vehicle Roadworthiness In Period 2015-2017 In The Federation Of Bosnia And Herzegovina
Fuad Klisura, Dragana Agić (B&H)
9. Aspects Of Decision-Making In The Management Of The Life Cycle Of Vehicles In Public Transport
Jusuf Borić, Mustafa Mehanović, Fuad Klisura, Dragana Agić (B&H)
10. Factors Affecting The Online Purchase Intention Of Consumers In Turkey
Gamze İnci, Ahmet Beşkese, Selim Zaim (Turkey)
11. The Impact Of Work Environment On Job Satisfaction Mediated By Organizational Culture
Somaia Elhaggan, Ahmet Beşkese, Selim Zaim (Turkey)
12. Agile And Waterfall Project Approaches In E-Commerce Projects: Comparison Of Two Cases
Alper Camci, İrfan Özoğul (Turkey)
13. The Behavior Of Pension Plan Investors Under Regulatory Change - Performance, Cost And Fund Flows: Turkey Case
Yaman O. Erzurumlu, İdris Ucardag (Turkey)

THURSDAY, September 20th
09.00 – 10.30 Papers presentations session
Chairmen: Ali Gungor, Irene Buj-Corral

Industrial Engineering

1. Technology Developments On Atmospheric Mineral Aerosol Research Over The Western Balkans
Jozef Bushati, Florian Mandija, Darko Petkovic, Edmond Lukaj (Albania, *B&H)*
2. Are Sharpe, Adjusted Sharpe And Sortino Ranking Of Equity Funds Different?
İrem Evelek, Yaman Omer Erzurumlu (Turkey)
3. Innovation In Transports – Low Cost
Jozef Bushati, Adriana Galvani, Darko Petkovic**, Aigars Andersons*** (Albania, *Italy, **B&H, ***Latvia)*
4. Numerical And Experimental Determination Of Flow Uniformity And Turbulence Intensity In An Open Low-Speed Wind Tunnel With A Closed Test Section
Ernad Bešlagić (B&H)
5. The Technology For Production Smart Windows
*Minka Čehić, *Salah-Eldien Omer (B&H, *Croatia)*
6. A Simulation Model To Improve Production Processes In An Implant Manufacturing Plant
Muhammet Gul, Faruk Serin, Melih Yucesan, Erkan Celik (Turkey)
7. The Security Staff Scheduling Problem With Goal Programming Approach
Evrancan Özcan, Emir Hüseyin Özder, Tamer Eren (Turkey)
8. Project Selection By Using Constraint Programming
Evrancan Özcan, Mustafa Hamurcu, Hacı Mehmet Alağaç, Tamer Eren (Turkey)
9. The Role Of Cilil In Engineering Education In Bosnia And Herzegovina
Aida Tarabar (B&H)

THURSDAY, September 20th
11.00 – 12.30 Papers presentations
Chairmen: Ali Gungor, Elma Ekinovic

**Industrial Engineering, Applied
Technology and Software Engineering**

1. Building And Arduino Based Remote Control Of The Robot With 3 Degrss Of Freedom
Malik Čabaravdić, Anel Husaković, Mehmed Čobo (B&H)
2. Building And Arduino Based Control Of Conveyor Belt For Sorting And Counting The Objects
Malik Čabaravdić, Anel Husaković, Muhamed Podojak (B&H)
3. An Overview Of Shape Memory Actuators As An Enabler For Industrial Services
Christian Rathmann, Malik Cabaravdic (Germany, *B&H)*
4. A Genetic Algorithm Approach For Rebalancing Of Assembly Line Problem
Zeynel Abidin Cil, Faruk Serin, Muhammet Gul, Erkan Celik, Süleyman Mete (Turkey)
5. Mapping Between Relational Database Management Systems And Graph Database For Public Transportation Network

- Faruk Serin, Suleyman Mete, Muhammet Gul, Erkan Celik (Turkey)*
6. Light Up The Value Of Dark Data
Dražena Gašpar, Mirela Mabić (B&H)
 7. Simulation And Analysis Of The Performance Single- Phase One-Stage Photovoltaic System
Nedzmija Demirovic, Alma Huremovic (B&H)
 8. SED And FFT Methods For Analysis Of Roller Bearing Vibration
Davorka Šaravanja, Marko Grbešić (B&H)
 9. Novel Multiplierless Comb Decimation Filter Based On Comb Zero-Rotation
Gordana Jovanovic Dolecek, Isak Karabegovic (Mexico, *B&H)*

THURSDAY, September 20th Mechanical Design & Construction
13.00 – 14.30 Papers presentations session
Chairmen: Elma Ekinovic, Irene Buj-Corral

1. Point Fixed Laminated Glass Stress Distribution Under Out Of Plane Load
Eren Kalay, C. Erdem Imrak (Turkey)
2. Comparison Of Analytical And Finite Element Analysis Of A Tower Crane Boom
Umut Şahin, Adem Candaş, Muharrem E. Boğoçlu (Turkey)
3. About The Own Frequency Of An Acoustic Membrane
Luciu Alexandrescu (Romania)
4. Optimization Of Longitudinally Stiffened Plates Under Compression
Vesna Raspudić (B&H)
5. Automotive Bonnet Hinges Shape Optimisation Using Linear FE Simulation & Comparative Method
Džemal Kovačević, Denijal Sprečić, Jasmin Halilović, Edis Nasić (B&H)
6. The Analysis Of A Thermal Stress State For Industrial Composite Plates
Tuğba Baytak, Osman Bulut (Turkey)
7. The Optimization Of A Commercial Vehicle's Leaf Spring Connection Bracket
Barış Çalışkan, Zeynep Parlar, Atakan Altınkaynak (Turkey)
8. The Effect Of The Radial Lip Seal Geometry On Sealing Performance
Görkem Tok, Zeynep Parlar, Vedat Temiz (Turkey)
9. Final Design And Construction Of A Test Bench For Measuring Friction Forces In Combustion Engines
Irene Buj-Corral, Enrique Zayas-Figuera, Jesús Álvarez-Flórez, Ernesto Gutiérrez-González, Pol Ribas-Villa (Spain)
10. Static Analysis Of The Stress State Caused By Heating-Quenching Process In Tempered Glasses
Umur Duman, Şeref Sönmez, Tuğba Baytak, Osman Bulut (Turkey)
11. Out-Of-Plane Deflection Of J-Shaped Beam
Žiga Alma, Cogo Zlatan, Kačmarčik Josip (B&H)
12. Numerical Analysis Of Hydraulic Telescopic Mast Construction
Sabina Hrustić, Fuad Hadžikadunić, Nedeljko Vukojević, Amna Bajtarević (B&H)

THURSDAY, September 20th

14.30 – 15.00 Posters presentations

Chairmen: Sabahudin Ekinovic

1. The Role Of Industrial Robot In The Process Of Welding In The Automotive Industry
Isak Karabegović, Sead Pašić, Edina Karabegović (B&H)
2. Additive Manufacturing Of Spare Parts In Maritime Industry - Technology Transfer In Mariner Education
Igor Vujović, Ivica Kuzmanić, Zlatan Kulenović, Neven Maleš (Croatia)
3. Quantitative And Semiquantitative Risk Assessment
Emina S Dzindo (Serbia)
4. Intelligent Supporting System For New Product Development
Borut Buchmeister, Robert Ojstersek (Slovenia)
5. Investigation Of Weather Conditions' Influence To The Maritime Zone Surveillance - Ground Truth Generation
Igor Vujović, Ivica Kuzmanić (Croatia)
6. Numerical Method For The Kinematic Analysis Of The Mcpherson Guiding Mechanisms Used For The Rear Wheels Of The Passenger Cars
Cătălin Alexandru (Romania)
7. Traceability Of Industrial Measurements With Laser Interferometers
Bojan Ačko, Lucija Črepinšek Lipuš, Rok Klobučar (Slovenia)
8. Solving The Problem Of The Schedule Concerning Conference Sessions By Using The Graph Theory
Hermína Alajbegović, Almir Huskanović, Štefko Miklavič, Dževad Zečić (B&H, *Slovenija)*
9. Modeling And Simulation As Multi-Body System Of A Complex Windshield Wiper Mechanism For Motor Vehicles
Cătălin Alexandru (Romania)
10. Multimedia WEB Application For Traffic Monitoring
Aleksandar Stjepanovic, Miroslav Kostadinovic, Goran Kuzmic, Mirko Stojcik (B&H)
11. Variable Kinematics Of Honing Process – Influence On Machined Workpiece
Piotr Sender (Poland)
12. Energy-Efficient Testing Device For New Hydraulic Fluids
Darko Lovrec, Vito Tič (Slovenia)
13. Backflow Induced Swirl At The Radial Impeller Entrance
Ignacijo Biluš, Gorazd Bombek, Luka Lešnik (Slovenia)
14. Study Of Operational Instability Of The Radial Impeller And Its Influence On Backflow Induced Swirl
Ignacijo Biluš, Luka Lešnik, Gorazd Bombek (Slovenia)
15. Effect Of Nanosilica On Early Strength Of Cement Mortar
Adnan Mujkanović, Nevzet Merdić, Marina Jovanović (B&H)
16. Technological Process And Analysis Of Radiator Holder Using Software's And FEM Method
Mileta Janjić, Burim Fejzaj (Montenegro, *Kosovo)*