

Joint International Conference

10th Textile Conference & 4th Conference on Engineering and Entrepreneurship 2023

Tirana 19 – 20 October 2023 Program

(GMT+2 time zone)

Thursday, October 19th, 2023		
Palace of Congresses, Tirana		
Chair: Genti Guxho		
17.00-17.30	Registration& coffee	
17.30 - 17.50	Greeting message	
	Professor Andrea Maliqari – Rector of Polytechnic University of Tirana	
17.50 - 18.00	Greeting message	
	Professor Genti GUXHO – Dean of Mechanical Engineering Faculty	
18.00 - 18.20	Virtual reality and 3D experiences to IMProve territorial Attractiveness, Cultural Heritage	
	smart Management and Touristic development.	
	"Doctor Honoris Causa" from Polytechnic University of Tirana	
	Prof. Dr. Luigi Maria Galantucci <i>Dr. h.c</i>	
	Politecnico di Bari, Italy	
18.20 - 18.40	Plenary Lecture 1	
	Resource efficiency and clean production assessment for the Albanian textile manufacturing	
	sector	
	Professor Ermira Shehi	
	Polytechnic University of Tirana	
18.40 - 19.00	Plenary Lecture 2	
	Systems engineering for aerospace: new challenges in modern on-board systems.	
	Professor Matteo D. L. Dalla Vedova	
	Politecnico di Torino, Italy	
20.00		
Dinner		

	Friday, October 20th, 2023		
Polytechnic University of Tirana			
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	Online Session I, Faculty of Mechanical Engineering, Room 205		
	Energetics		
	Chair: Panagiotis Kyratsis and Klodian Dhoska		
9.00 - 9.15	Flow Induced Forces on Pipe Elbows		
)	Lydia Lymperopoulou and George Varelis		
9.15 - 9.30	CAD-based automated USV hulldesign		
, 0 , 0	Anastasios Tzotzis, Nikolaos Efkoliodis, César García-Hernández and Panagiotis		
	Kyratsis		
9.30 - 9.45	Flow Induced Vibration Assessment of a Gas Piping System		
70 710	Deborah Ibrahimi , George Varelis, Greg Peng, Graeme Campsie and Jeroen Hoefakker		
9.45 - 10.00	The effects of the drill microgeometry on the induced thrust force and cutting torque		
) 10 III	Anastasios Tzotzis, Athanasios Manavis, Ioannis Sarris, Panagiotis Kyratsis		
	, , , , , , , , , , , , , , , , , , ,		
	Online Session II, Faculty of Mechanical Engineering, Room 205		
	Textile (cloth, footwear, and leather)		
	Chair: Evridiki Papachristou and Ermira Shehi		
10.00 -10.15	Comparison of Computer aided design and manual pattern making		
	Maja Jankoska and Ruzica Stevkovska Stojanovka		
10.15 - 10.30	The Effect of Regionally Specific Anthropometrical Measurements upon the Results of		
	Garment 3D Fitting		
	Eugenija Strazdiene and Desara Gjini		
10.30 - 10.45	Encouraging 3D Virtual Design in Fashion Education: Best practices		
	Evridiki Papachristou and Nefeli Zolota-tatsi		
10.45 - 11.00	The Use of Innovative 3D Simulation Tools in Fashion Boutiques		
	Nesligül Kiliç and Özgür Ceylan		
11.00 - 11.15	The Perception of Athleisure Trend for Denim Brands: The Case of Mavi		
	Özgür Ceylan , Nesligül Kiliç, Özgen Özturan, Cihad Sünbül and Özge Polat		
11.15 - 11.30			
	Coffee Break		
	Online Session III, Faculty of Mechanical Engineering, Room 205		
	Textile (cloth, footwear and leather)		
	Chair: Andrea Ehrmann and Lilia Sabantina		
11.30 - 11.45	Electrospun nanofiber mats for mammalian cell growth		
	Andrea Ehrmann		
11.45 – 12.00	Characterization of Electrical Conductivity and Electrical Heating of RGO/MWCNT coated		
	Nonwoven Fabrics		
	Nergis Demirel Gültekin, Özgen Özturan and İsmail Usta		
12.00 – 12.15	The Influence of Bio-Innovative Pretreatment to Cotton Fabric Whitness		
	Anita Tarbuk, Tihana Dekanić, FrankaKarin and Irena Šabarić		
12.15 – 12.30	Polypyrrole treated leather and triboelectricity.		
	Aristeidis Repoulias , Majlinda Hylli, Ilda Kazani, Sotiria Galata, Sindi Cela and Savvas		
	Vassiliadis		

	ROOM A– Session I, Faculty of Electrical Engineering, Room 205	
	Materials, Transport and Construction	
0.00	Chair: Irida Markja	
9.00 – 9.15	"Streamlining Design Workflow: Converting AutoCAD to SolidWorks, Utilizing SolidCAM, and Cost Analysis Integration Analysis"	
	Granit Arifaj, Ramë Likaj and Besart Berisha	
9.15 - 9.30	Analyzation of general displacements of mechanical structures using self	
9.15 - 9.30	equilibrated forces	
	Anis Sulejmani, OdhiseaKoça and Parid Milo	
9.30 - 9.45	NDE of the integrity of a CLINCER 40.000-ton concrete structure	
, , , ,	Enkelejda Konda, MigenaZeqo and DhimitraqSotja	
9.45 - 10.00	Analysis of vehicle inventory and their characteristics in Albania	
	Erjon Selmani , Koçi Doraci, Leonard Çomeni, Arben Dushi and Miranda Kullolli	
	ROOM A – Session II, Faculty of Electrical Engineering, Room 205	
	Materials, Transport and Construction	
10.00 10.15	Chair: Edmondo Minisci A Modified Webster Model for a Useful Traffic Signal Timing Plan	
10.00 – 10.15	A Modified Webster Model for a Oseful Traffic Signal Timing Flan Arlinda A. Rrecaj, Ramadan Mazrekaj and Gëzim Hoxha	
10.15 - 10.30	Machine Learning based Prognostics of On-Board Electromechanical Actuators	
10.15 10.50	Edmondo Minisci, Matteo D.L.Dalla Vedova, Parid Alimhillaj, Leonardo Baldo, Paolo	
	Maggiore	
10.30 - 10.45	Coulombian Friction Model Analysis, Acting on an Aerospace Servocommand	
	Parid Alimhillaj, Majlinda Alcani, Mateo D.L. Dalla Vedova, Luis Lamani and Spartak	
	Poçari	
10.45 – 11.00	Comparison of wind action calculation according to Albanian norms and Eurocode	
	Igli Kondi , Elvis Capo and Julian Kasharaj	
11.00 - 11.30	Coffee Break	
	ROOM A – Session III, Faculty of Electrical Engineering, Room 205	
	Materials, Transport and Construction	
11.00 11.45	Chair: Odhisea Koça Graphical and analytical analysis in the field of Mohr's circle	
11.30 – 11.45	Anis Sulejmani, Odhisea Koça and Mentor Cejku	
11.45 - 12.00	Quality of Control of the Steel Bar Production for Usage in Construction Applications	
11.70	Klodian Dhoska , Irida Markja, Elena Bebi, Brisilda Kacorri and Agus Pramono	
12.00 - 12.15	"Asphalt Pavement Recycling Technology with Reclaimed Asphalt Pavement (RAP) according	
	to the standard EN 13108-8 and EN 13108-1"	
	Irida Markja , Klodian Dhoska, Mentor Fraholli, Giorgio Mustafaraj, Blerta Ahmetaj and	
	Dervish Elezi	
12.15 - 12.30	The advantages and efficiency of using the 5S Methodology in vehicle repairs and	
	maintenance companies.	
	Dhimitraq Sotja , Enkelejda Konda and Migena Zeqo	
12.30 – 13.30 Lunch		
12.30 – 13.30	Lunch	

ROOM A – Session IV, Faculty of Electrical Engineering, Room 205		
Materials, Transport and Construction		
	Chair: Ilo Bodi	
13.30 - 13.45	The application of the DIJKSTRA algorithm in the finding of the optimal solution for the	
13.30 - 13.45	connected road network to center Prishtina	
	Ramë Likaj, Xhevair Bajrami, Gëzim Hoxha and Erjon Shala	
10.45 14.00	Design and Fabrication of the Remote-Control Field Mobile Robot	
13.45 – 14.00		
	Arbnor Pajaziti , Faruk Selmani, Shaban Buza, Ramë Likaj, Xhavahir Bajrami and Afrim	
14.00 14.15	Gjelaj Path Planning Algorithms of the Mobile Robots Control	
14.00 – 14.15		
1100 1500	Arbnor Pajaziti, Lavdrim Panxha, Xhevahit Bajrami, Shaban Buza and Mirlind Bruqi	
14.30 – 15.00	Coffee Proofs	
	Coffee Break	
	DOOM D. Coggion I. Foculty of Machanical Engineering, Doom 210	
	ROOM B – Session I, Faculty of Mechanical Engineering, Room 210	
	Energetics Chair Mailinda Alaani	
0.00 0.15	Chair: Majlinda Alcani A simplified hydraulic capacity-sensitive fluid dynamics numerical model for monitoring	
9.00 – 9.15		
	aerospace electro-hydraulic actuators	
0.17	Matteo D. L. Dalla Vedova, ParidAlimhillaj, Edmondo Minisci and Paolo Maggiore	
9.15 – 9.30	Decarbonization of the Industrial sector in Albania. Problems and Challenges	
0.00	Majlinda Alcani, Elena Bebi and Altin Dorri	
9.30 - 9.45	Analysis of Energy Audit in the Architectural Design Office located in Tirana	
0.15 10.00	Klodian Dhoska, Elena Bebi, Irida Markja and Giorgio Mustafaraj	
9.45 – 10.00	Comparison of Different Energy Efficiency Techniques Applied to Building Envelope and Air	
	Conditioning Plants	
	Giorgio Mustafaraj and Klodian Dhoska	
	ROOM B – Session II, Faculty of Mechanical Engineering, Room 210	
	Energetics	
	Chair: Andonaq Londo	
10.00 10.15	A new approach for drought evaluation by using the SPI methodology	
10.00 - 10.15	Petrit Zorba and Elsuida Hoxha	
10.15 - 10.20	The Influence of Thermodynamic Parameters on Internal Combustion Engines and the	
10.15 – 10.30	Graphical Presentation of Cycles Diagrams Using Matlab	
	Ardit Gjeta, Majlinda Alcani and Altin Dorri	
10.30 - 10.45	Energy Performance in the Industry Sector. Case Study of an Industrial Faci	
10.30 – 10.45	Edmond ZENELI , Albert Shira, Flamur Bidaj and Artan Hoxha	
10.45 - 11.00	Performance analysis and optimization of the energy indicators of an axial fan through some	
	constructive changes using computer simulations and experimental confirmation	
	Spartak Poçari and Luis Lamani	
11.00 - 11.30		
	Coffee Break	

	POOM B. Sassian III. Faculty of Machanical Engineering, Poom 210
	ROOM B – Session III, Faculty of Mechanical Engineering, Room 210 Textile (cloth, footwear and leather)
	Chair: Diana Tulik
11.30 - 11.45	Contamination threshold values for textile recycling
11.50 – 11.45	Tanita Behrendt and Elisabeth Eppinger
11.45 – 12.00	The Effect of Aluminum Mordant on the Colour Fastness of Fabrics Made of Cellulose Fibres
11.45 12.00	when Dyeing with Onion Peels
	Diana Tuulik and Merje Beilmann
12.00 - 12.15	Assessment of Silk Quality in the Shkodra Region of Albania: A Study on Physical
	Mechanical Properties
	Ilda Kola , Blerina Kolgjini and Suela Ademi
12.30 - 13.30	Lunch
	ROOM B – Session IV, Faculty of Mechanical Engineering, Room 210
	Textile (cloth, footwear and leather)
	Chair: Georgios E. Stavroulakis
13.30 - 13.45	Data-driven multi-scale numerical homogenization
	Georgios E. Stavroulakis and Eleftheria Bletsogianni
13.45 – 14.00	Auxetics, theory and technological applications
1400 141	Ioannis Ntintakis, Georgios E. Stavroulakis and Stavros Karathanasopoulos
14.00 – 14.15	Enhancing Realism in Cloth Simulation: A Review of Methods and Issues Lilia Sabantina
	Litta Savantina
14.30 - 15.00	Coffee Break
14.50 15.00	Correct Di Cuix
	ROOM C – Session I, Faculty of Electrical Engineering, Room 206
	Management and production
	Chair: Jonida Teta
9.00 - 9.15	"Albania's unsuccessful attempts to rapidly develop the industrial sector (1920-1990)"
	Genti Guxho
9.15 - 9.30	Implementation of Industry 4.0 Challenges in Developing Countries: A Case Study of Albania
	Irma Shyle, Erisjena Rruplli
9.30 - 9.45	"Applying Ishikawa diagram and Pareto Chart for Defect Reduction in a Manufacturing
	Industry: A case study from Textile Producing Company"
	Eralda Xhafka , Elidon Avrami, Gabriele Canton and Artemisa Mazreku
	DOOM C C ' H D le CEL e' LD ' ' DC
	ROOM C – Session II, Faculty of Electrical Engineering, Room 206
	Management and production
00.45 10.15	Chair: John Kechagias Evaluation of surface flatness and roughness for marble products produced with CNC
09.45 – 10.15	machining
	Ilo Bodi, Erald Piperi, Mariel Hoxha and Jorgaq Kaçani
10.15 - 10.30	Experimental investigation of build time during filament material extrusion process
10.15 10.50	Aristidis Tsiolikas, Tatjana Spahiu and John D. Kechagias
10.30 - 10.45	Multi depth camera setup for body scan
10.00 10.40	Erald Piperi, Ilo Bodi and Elidon Avrami
11.00 - 11.30	Coffee Break

ROOM C – Session III, Faculty of Electrical Engineering, Room 206		
Management and production		
	Chair: Valma Prifti	
11.30 - 11.45	Information Technology in Supply Chain Management. Case Study	
	Dea Sinoimeri , Jonida Teta, Valma Prifti and Armira Lazaj	
11.45 - 12.00	Using "Machine Learning" Techniques In Increasing The Efficiency of Sales Forecasting.	
	Case Study of A Retail Company in Albania	
	Valma Prifti, Dea Sinoimeri, Armira Lazaj, Betina Dini and Kevin Luniku	
12.00 - 12.15	"Evaluating the Criteria for Choosing Clothing Brands using Analytic Hierarchy Process"	
	Elda Lamce and Alma Braimllari	
12.30 - 13.30	Lunch	
	Ewidow Ootohou ooth 2022	
	Friday, October 20th, 2023	
	14.30 – 15.00 Poston session	
Evoluation of Di	Poster session	
Evaluation of Risk Indexes that Affect the Cost of the Under-Construction Infrastructure Project "Extension of		
	the New Ring of Tirana -Phase 2	
Effect of pozzle	Idlir Dervishi and Eralda Xhafka	
Effect of nozzle geometry on flow characteristics; Mathematical modeling and computer simulation through the Python programming language		
<u>Luis Lamani and Spartak Poçari</u> Energy Key Performance Indicators in Garment Production		
Ellergy Rey Performance indicators in Garment Production Elmira Dumishllari and Silva Spahija		
Implementation of Barcode Technology in Clothing Industry in Albania Through a Case Study		
Silva Spahija, Albana Leti, Elmira Dumishllari and Luljeta Haderi		
Circular Economy: Reuse and recycling solutions of a footwear company in Albania		
Circu	Albana Leti, Silva Spahija, Ermira Shehi and Enila Qoku	
Wear sm	art wear wealthy: Shielding electroconductive leather for electromagnetic protection	
	ni, Stelios Mitilineos, Majlinda Hylli, Aulon Shabani, Savvas Vassiliadis and Genti Guxho	
2100 210020	Thermo-Physiological Properties of Knitted Fabrics	
	Megi Basho, Zenun Skënderi, Antoneta Tomljenović and Ilda Kazani	
S	tudying the conductive properties of leather in different time slots preparation	
Majlinda Hylli, Aulon Shabani, Ilda Kazani and Genti Guxho		
Testing of Usage Properties and Comfort of Casual Men's Cotton Socks		
Jonida Haskurti, Antoneta Tomljenović, Ilda Kazani and Zenun Skënderi		
	Application of smart textile sensors for building occupancy monitoring	
Aulon Shabani, Ilda Kazani and Majlinda Hylli		
Case Circular Economy of Serbia		
Snežana Urošević, Igor Urošević and Milovan Vuković		

15:00 Discussions & Conclusions