POLCOM 2023 - Conference Program

University Politehnica of Bucharest, University of Campania "Luigi Vanvitelli"

Thursday, November 23rd

	Room	Chairman	Speakers
09:00 - 11:00	Plenary Session UPB Room: CD008	Polcom Conference Opening *Chairs: prof. Constantin Opran* *prof. Giuseppe Lamanna*	**Prof. Constantin Opran** *University Politehnica of Bucharest* **Prof. Giuseppe Lamanna** *University of Campania "Luigi Vanvitelli"*
			Invited Speaker: Prof. Chiara Bertolin Norwegian University of Science and Technology Numerical investigation on the compressive behaviours of Islamic-geometric-pattern inspired architectured material
			Sidra Riaz Politecnico Di Bari,Italy Numerical Simulation of Non-Destructive Thermography by means of Carrera Unified Formulation for Characterizing Delamination in Composite Materials
			Michele Picariello University of Campania "Luigi Vanvitelli" Digital Twin in SMEs: Implementing Advanced Digital Technologies for Engineering Advancements
			Dr. Giuseppe Riva Federchimica-Plastics Europe Italia The Plastic Transition Roadmap
			Invited Speaker: Prof. Mihaela-Elena Ulmeanu University POLITEHNICA of Bucharest Additive manufacturing applications in the medical industry
			Dr.Victor Nastase Industry Director of Lubexpert Romania Automatic grease guns; advantages and applications
			Ileana Dugaesescu University POLITEHNICA of Bucharest Research Regarding the Design and Development of an Optimum Concept for a Humanoid Robot
			Invited Speaker: Prof. Mihaela-Elena Ulmeanu University POLITEHNICA of Bucharest Functional Analysis: A Case Study of an IoT-Based Health Monitoring System
			Mihaela-Elena Ulmeanu University POLITEHNICA of Bucharest 3D Printing Strategy in Manufacturing of Health Monitoring Devices
11:15 - 13:30	Plenary Session UPB Room: CD008	*Session Chairman:* *prof. Alessandro De Luca*	
			Invited Speaker: Dr. Donato Perfetto *University of Campania "Luigi Vanvitelli"* A Novel Intelligent System Based on Guided Waves for in-situ Structural Health Monitoring
			Nurazima Ismail Universiti Malaysia Pahang Structural health monitoring of the metallic plate using guided waves: An experimental study
			Antonio Aversano University of Campania "Luigi Vanvitelli" Experimental investigation for debonding detection in a reinforced CFRP panel through ultrasonic guided waves
			Dan Nitoi University POLITEHNICA of Bucharest Designing an ultrasonic system used to reduce the cross-linking time of epoxy resins used in the construction of brake cylinders
			Anamaria Feier University POLITEHNICA of Timisoara, Romania Optimization of a dissimilar joint through an additive manufacturing process
			Catalina Enache University POLITEHNICA of Bucharest Researches regarding realization of a drone using carbon fiber composite structures and additive manufacturing
			Paschalis Charalampous Centre for Research and Technology Hellas - Information Technologies Institute (CERTH/ITI) Patient-specific Investigation of Bileaflet Mechanical Heart Valve Prosthesis employing Additive Manufacturing Procedures and Numerical Simulations
			Mario Munno University of Campania "Luigi Vanvitelli" Machine Design
			Ilie Nicolin INCAS - National Institute for Aerospace Research "Elie Carafoli" Calculation the steering moment of friction for military training aircraft
			Francesca Vassallo University of Campania "Luigi Vanvitelli" Product Design Optimization Strategies for Metal Additive Manufacturing in Aerospace Applications

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	Notes		Speakers
14:30 - 16:00	Plenary Session UPB Room: CD008	*Session Chairman:* *prof. Giuseppe Lamanna*	
			Nikolaos Kladovasilakis Centre for Research and Technology Hellas - Information Technologies Institute (CERTH/ITI), Greece Development of a System for Repairing Damaged Tissue Utilizing 3D Printed Biodegradable Scaffolds and Computer Vision approaches
			Eleftheria Maria Pechlivani Centre for Research and Technology Hellas - Information Technologies Institute (CERTH/ITI), Greece 3D printed Impact Echo Device for Concrete Crack Detection
			Job Maveke Wambua Department of Mechanical and Construction Engineering, Northumbria University, Newcastle upon Tyne, United Kingdom Effect of Turning Parameters on Cutting Forces, Maximum Principal Stress, and Maximum Interfacial Temperature on Medium Carbon AISI 1045 Steel: Simulation and Comparative Studies
			Alexandru-Ionut Nicolescu University POLITEHNICA of Bucharest Dimensional and Weight Characterization of 3D Printed PET Specimens Designed for Compliant Mechanisms
			Marius-Vali Lazar University POLITEHNICA of Bucharest Roughness regression functions of 3D printed PLA parts surfaces machined by CNC milling
			Cristin ZAHARIA University POLITEHNICA of Bucharest Development of a polymer-metal hybrid mold for cold plastic deformation of stainless steel thin parts
			Sofia Milenkova University of Plovdiv "Paisii Hilendarski", Bulgaria 5-fluorouracil delivery systems based on chitosan microparticles and poly(lactic acid) film
			Elfrida Carstea National Institute of R&D for Optoelectronics INOE 2000 Release of fluorescent organic matter by polystyrene in aquatic systems
16:15 - 18:00	Plenary Session UPB Room: CD008	*Session Chairman:* *prof. Donato Perfetto*	
			Simona-Nicoleta Mazurchevici Gheorghe Asachi Technical University of Iasi, Romania Improved surface quality with TiN-coated tool
			Ziyad Abdullah Middle Technical University/Institute of Technology-Baghdad Remanufactured Solid Recovered Fuel Gasification based Bread Baking: Sustainable Business Opportunity Assessment
			JoannaBorowiecka-Jamrozek Kielce University of Technology THE EFFECT OF ADDITION OF THE NATURAL ZEOLITE ON THE MICROSTRUCTURE AND MECHANICAL PROPERTIES OF SINTERED IRON MATRIX COMPOSITE
			Elisaveta Crăciun "Gheorghe Asachi" Technical University of Iasi, Romania Determination of the friction coefficient magnitude in the case of polymer samples manufactured by 3D printing
			Andrea Sellitto University of Campania "Luigi Vanvitelli", Italy A new FE Modelling approach to Simulate the Inter-Layer Adherence in Hybrid Sandwich Structures achievable by Additive Manufacturing
			Antonio Garofano University of Campania "Luigi Vanvitelli", Italy Investigation on the Crashworthiness of a Composite Fuselage Barrel with Double-Double Designed Frames
			Miriam Battaglia University of Campania "Luigi Vanvitelli", Italy Structural evaluation of a vertical tail for a supersonic vehicle: architecture, boundary conditions and material system influence
			Ciro Coscione University of Campania "Luigi Vanvitelli", Italy Numerical simulation on the crack growth behaviour of Ti6Al4V under low cycle fatigue