

POLCOM 2024 - Conference Program

National University of Science and Technology POLITEHNICA Bucharest

University of Campania "Luigi Vanvitelli"

		Thursday, N	lovember 21st
	Room	Chairman	Speakers
09:30 - 11:00	Plenary Session Central Library Room 4.1 4th floor	Polcom Conference Opening Chairs: prof. Constantin G. Opran prof. Giuseppe Lamanna	Prof. Constantin G. Opran University Politehnica of Bucharest Prof. Giuseppe Lamanna University of Campania "Luigi Vanvitelli"
			Invited Speaker: Prof. Paul A. Tres ETS, Inc., Bloomfield Hills, Michigan, USA Investigation of color on plastic product failure
11:15 - 13:30	Plenary Session Central Library Room 4.1 4th floor	Session Chairman: prof. Giuseppe Lamanna	
			Daniela Tunsoiu, Mihaela Ulmeanu  National University of Science and Technology POLITEHNICA Bucharest, Romania  Automation of document management workflow for a higher education institution
			Angela-Miruna Neacsu-Pavel, Mihaela Ulmeanu National University of Science and Technology POLITEHNICA Bucharest, Romania Optimizing Cost and Value Through Technical Functional Analysis in the Development of a Humanoid Robot Concept
			Dan Nitoi  National University of Science and Technology POLITEHNICA Bucharest, Romania  Determining the quality of composite structures made in ultrasonic field by  infrared thermal imaging
			Ciupan CORNEL Technical University of Cluj-Napoca, Romania Recyclable Composite Materials for the Upholstered Furniture Industry
			Maria-Roxana Marinescu National Institute for Research and Dev. in Microtech. IMT-Bucharest, Romania An adaptable 3D-printed model used for the production of monitoring devices of dog articulation health
			Claudiu Florinel BISU  National University of Science and Technology POLITEHNICA Bucharest, Romania  Stiffness characteristics identification in the case of industrial robot machining for wind blade composite material
			Gheorghe Oancea Transilvania University of Brasov, Romania Remanufacturing of damaged parts from an UAV
			Théo EVRARD PIMM, France MOISTURE AND TEMPERATURE AGEING ON HTPB BASED PROPELLANTS BINDER
			Antonio Aversano University of Campania "Luigi Vanvitelli" Guided wave based-SHM for complex thermoplastic composite flaperon
			Amelia Felaco University of Campania "Luigi Vanvitelli" Integrated Multibody Dynamics and Finite Element Analysis for Enhancing Fatigue Life in Agricultural Machinery
			Antonio Polverino

University of Campania "Luigi Vanvitelli" Stochastic finite element methodology aimed at localizing and classifying cracks through guided waves propagations



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		Thursday, November 21st
	Notes	Speakers
14:30 - 16:15	Plenary Session Central Library Room 4.1 4th floor	
		Mihaela Feraru Ilie "Gheorghe Asachi" Technical University of Iasi, Romania Surface quality of Cu-coated printed samples
		Sofia Milenkova "PAISII HILENDARSKI" UNIVERSITY OF PLOVDIV, Bulgaria Comparison of native and modified biopolymer blends and their potential as sustained delivery system for Tolfenamic Acid
		Viola Veronica University of Campania "Luigi Vanvitelli", Italy Sustainable Building Materials: Utilizing Wood Ash for CO <sub>2</sub> Sequestration
		Sabin Mihai  National University of Science and Technology POLITEHNICA Bucharest, Romania <u>Corrosion behavior of high entropy alloy coated with Al2O3/SS304 composite using</u> <u>Laser melting deposition technique</u>
		Petronela-Daniela Rusu Ostahie Gheorghe Asachi" Technical University of lasi, Romania Laser surface texturing of biodegradable polymers
		Irina Beşliu - Băncescu University Stefan cel Mare from Suceava, Romania Evaluating Hole Accuracy and Surface Quality in Pine-Based Wood Polymer Composite generated by FDM Technology
		<b>Raul-Mihai Petrașcu</b> Lucian Blaga University of Sibiu, Romania <u>Joule Heating-Induced Self-Deformation of 3D-Printed Electrically Conductive PLA</u> <u>for Smart Gripping Applications</u>
		Ciro Coscione University of Campania "Luigi Vanvitelli" Fatigue analysis for crack propagation on Al6082-T6 CT specimen using XFEM method
14:30 - 16:15	Plenary Session Central Library Room 4.2 4th floor	
		Angela-Miruna Neacșu-Pavel, Nicolae Tunsoiu National University of Science and Technology POLITEHNICA Bucharest, Romania Optimization of 3D Printing Parameters for the Fabrication of Kinematic Elements in Mono-Mobile Robot Design
		<b>Donato Perfetto</b> University of Campania "Luigi Vanvitelli" <u>Ultrasonic Guided Waves based SHM for delamination growth in LVI Impacted</u> <u>CFRP laminate</u>
		Alexandru-Ionuț Nicolescu, Vlad-Cristian Enache National University of Science and Technology POLITEHNICA Bucharest, Romania Functional Parameters Analysis for Food 3D Printing

Vasile Adrian Stoiculete

"Carol I" National Defense University, Romania Lean Six Sigma Implementation in the Romanian Air Force: A Feasibility Assessment

## Michele Picariello University of Campania "Luigi Vanvitelli", Italy How AI can aim and reduce the annual amount of energy consumption in European SMEs Cristian Giolu National University of Science and Technology POLITEHNICA Bucharest, Romania Feasibility Study of Polymer-Based Stamping Devices Manufactured via Material Extrusion Additive Manufacturing for Small-Batch Production and Prototyping Adelina Hrituc Gheorghe Asachi" Technical University of Iasi, Romania Bending Behavior of an Anisotropic Composite Polymeric Material Part Adelina Hriţuc Gheorghe Asachi" Technical University of Iasi, Romania Buckling Behavior of Tubular Parts Made of Polylactic Acid Plenary Session Session Chairman: 16:30 - 18:00 Central Library prof. Constantin G. Opran Room 4.1 4th floor Remus DOBRINOIU National University of Science and Technology POLITEHNICA Bucharest, Romania Modeling pedestrian flows between the Metro Station and the POLITEHNICA University for design a transfer system with moving walkways Nicolae Tunsoiu, Andrei Staicu $\hbox{National University of Science and Technology POLITEHNICA Bucharest, Romania}\\$ Optimization of Real-Time Monitoring and Control of Industrial Conveyor Systems Using Vision Automated Identification Methods Luigi-Mădălin PEȚA National University of Science and Technology POLITEHNICA Bucharest, Romania Intelligent information system for optimizing production using energy from photovoltaic panels Andreea Loredana Albu National University of Science and Technology POLITEHNICA Bucharest, Romania Eliminating polymer materials from the toy industry and replacing it with agromaterials obtaines from corn-based Constantin Alex Sumanariu National University of Science and Technology POLITEHNICA Bucharest, Romania Post irradiation analysis and comparison of additively manufacture d and conventional stainless steel 316L samples Serafim Muntean Transilvania University of Brasov, Romania Rapid prototyping process of aerodynamic components from an UAV Andrei Dimitrescu National University of Science and Technology POLITEHNICA Bucharest, Romania Determination of the mechanical tensile characteristics of some 3D printed specimens from Nylon 12 Carbon Fiber material Federico Barrino University of Palermo, Italy New food packaging material based on modified corn oil Darya Nefedova Polytechinic of Bari, Italy Iron oxides on waste steel slags as catalyst for the transfer hydrogenation of nitrobenzene using iso-propanol as hydrogen source