

POLCOM 2024 - Conference Program

National University of Science and Technology POLITEHNICA Bucharest

University of Campania "Luigi Vanvitelli"

Thursday, November 21st				
	Room	Chairman	Speakers	
09:30 - 11:00	Plenary Session Central Library <u>Room 4.1 4th floor</u>	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 Chairmen: prof. Giuseppe Lamanna Prof. Alessandro De Luca		
	PLEASE NOTE: Please note. The programme conference website does note the actual attendance of the	t constitute a record of eauthors.	Daniela Tunsoiu, Mihaela Ulmeanu  National University of Science and Technology POLITEHNICA Bucharest, Romania  Automation of document management workflow for a higher education institution	
	For further information, plea conference chairman.	ise contact the	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 <u>Determining the quality of composite structures made in ultrasonic field by infrared thermal imaging</u>	
			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	
			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	

Donato Perfetto

University of Campania "Luigi Vanvitelli"

<u>Ultrasonic Guided Waves based SHM for delamination growth in LVI Impacted</u>

<u>CFRP laminate</u>



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		Thursda	y, November 21st
Notes			Speakers
14:30 - 16:15	Parallel Session Central Library Room 4.1 4th floor	Session Chairman: prof. Alessandro De Lucc	2
	PLEASE NOTE: Please note. The programme p conference website <u>does not or</u> the actual attendance of the a	onstitute a record of uthors.	Mihaela Feraru Ilie  "Gheorghe Asachi" Technical University of lasi, Romania  Surface quality of Cu-coated printed samples
	For further information, please conference chairman.	.ontact the	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
			<b>Viola Veronica</b> University of Campania "Luigi Vanvitelli", Italy Sustainable Building Materials: Utilizing Wood Ash for CO <sub>2</sub> Sequestration
			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
			Raul-Mihai Petrașcu Lucian Blaga University of Sibiu, Romania Joule Heating-Induced Self-Deformation of 3D-Printed Electrically Conductive PLA for Smart Gripping Applications
			Ciro Coscione University of Campania "Luigi Vanvitelli" Fatigue analysis for crack propagation on Al6082-T6 CT specimen using XFEM_ method
			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 Hriţuc Gheorghe Asachi" Technical University of lasi, 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
			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
			Alexandru-Ionuț Nicolescu, Vlad-Cristian Enache

Alexandru-Ionuţ Nicolescu, Vlad-Cristian Enache
National University of Science and Technology POLITEHNICA Bucharest, Romania Functional Parameters Analysis for Food 3D Printing

16:30 - 18:00 C

Plenary Session
Central Library
Room 4.1 4th floor

Session Chairman: prof. Giuseppe Lamanna

#### **PLEASE NOTE:**

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For further information, please contact the conference chairman.

# Sabin Mihai

National University of Science and Technology POLITEHNICA Bucharest, Romania Corrosion behavior of high entropy alloy coated with Al2O3/SS304 composite using Laser melting deposition technique

# Vasile Adrian Stoiculete, Răzvan HRIȚCU

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

# 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

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