

MSN - WECM'24 - PhDsF24

Workshop Programme

Monday - May 27, 2024	
Faculty of Mechanical Engineering - Aula A1	
9:00-10:00	Registration
10:00-10:30	Opening Ceremony
10:30-11:00	<p>Invited Lecture 1 Chairman: S. Samborski FILIP GÓRSKI - Poznan University of Technology, Poland <i>Individualized 3D Printed Orthopaedic and Prosthetic Devices Using AutoMedPrint Technology: Methodologies and Examples</i></p>
<p>Session 1 - Mechanical Engineering Chairman: S. Samborski, D. Kostyla</p>	
11:00-11:15	Ilmars Blumbergs <i>Recent Advances in Nanocoatings of Magnesium Alloys</i>
11:15-11:30	Paolo S. Valvo <i>Nonlinear analysis of soft elastic membranes using the position-based finite element formulation</i>
11:30-11:45	Lukasz Rzepka <i>Repeatability of measuring head for CNC machine in relation to calibration artifacts</i>
11:45-12:00	Kuba Roslaniec <i>Stability of Thin-Walled Composite Structures with Closed Sections Under Compression</i>
12:00-12:30	Coffee Break
12:30-13:00	<p>Invited Lecture 2 Chairman: Z. Suchorab FARIDA KHARCHENKO - Sumy National Agrarian University, Ukraine <i>Declogging of blocked holes of perforated sifting surfaces of separation equipment</i></p>
<p>Session 2 - Interdisciplinary Chairman: Z. Suchorab, A. Wilczyńska</p>	
13:00-13:15	Marian Bartoszuk <i>The importance of material model parameters in simulation studies of the cutting process</i>
13:15-13:30	Magdalena Żukowska <i>Automation of the design and evaluation of lower limb orthoses adapted for use in long-term rehabilitation processes</i>
13:30-13:45	Wiktoria Lokczewska <i>Influence of outdoor conditions on energy efficiency of heating system with forecast control</i>
13:45-14:00	Katarzyna Mróz <i>Application of selected machine learning methods for selected features prediction and identification from biological neural networks</i>
14:00-15:00	LUNCH - restaurant "Lanczomania"
15:00-15:30	<p>Invited Lecture 3 Chairman: P. Valvo PANAYIOTIS TSOKANAS - KU Leuven, Belgium <i>Interlaminar fracture in asymmetric specimens: an open topic</i></p>
<p>Session 3 - Interdisciplinary Chairman: P. Valvo, A. Zielonka</p>	
15:30-15:45	Anna Badora <i>Indoor microclimate in selected school facilities</i>
15:45-16:00	Michał Staniszewski <i>Comparison of YOLO Machine learning algorithm in automated recognition of testacea amoebas in activated sludge</i>
16:00-16:15	Martyna Wawrzyk <i>Comparative analysis of the spectra length method and envelope method in TFBG spectra demodulation</i>
16:15-16:30	Ghizlene Boussouar <i>Study of the thermal performances of a solar air collector</i>
16:30-17:00	Coffee Break
17:00-18:00	Poster Session - PS
Tuesday - May 28, 2024	
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9:00-9:30	<p>Invited Lecture 4 Chairman: R. Rusinek TOMASZ PAWLAK - 3D Phoenix, Poland <i>Incremental technologies - alternative manufacturing methods</i></p>
<p>Session 4 - Mechanical Engineering Chairman: R. Rusinek, M. Sowa</p>	
9:30-9:45	Daniele Fanteria, Silvio Sanvenero <i>Modelling strategies for FE analysis of impacts on composite laminates</i>
9:45-10:00	Danyil Melnyk <i>Analysis of multistable composite shell: numerical simulation and experimental exploration</i>
10:00-10:15	Aleksander Czajka <i>Acoustic emission application in damage characterization of the lap joint composite laminates</i>
10:15-10:30	Michał Kusznerek <i>Comparison of the ecological performance of a diesel-hydrogen dual-fuel engine</i>
10:30-10:45	Mateusz Kłepka <i>Working process of diesel engine fuelled with canola oil and hydrocarbon in the gas phase</i>
10:45-11:00	Tomasz Kusiak <i>Numerical modelling of the bimetallic rod rolling process in a CNC skew rolling Mill</i>
11:00-11:30	Coffee Break
11:30-12:00	<p>Invited Lecture 5 Chairman: D. Fanteria ANNA GĘBARSKA - SMARTTECH3D, Poland <i>3D scanners as a basic tool for a modern engineer</i></p>
<p>Session 5 - Interdisciplinary Chairman: D. Fanteria, A. Czajka</p>	
12:00-12:15	Yaryna Posuniak <i>Creating a new quality of social space through 'Baobab' in Lublin.</i>
12:15-12:30	Edyta Wojtaś <i>A simplified method for determining potential heavy metal leached from sediments of stormwater and combined sewer systems – importance for public health</i>
12:30-12:45	Jakub Kisala <i>NiFe/Cu/NiFe thin films exhibiting the phenomenon of giant magnetoresistance depending on the direction of the external magnetic field</i>
12:45-13:00	Jakub Wankiewicz <i>The influence of the addition of hemp shives on the properties of clay aggregate</i>
13:00-13:15	Łukasz Wójcik <i>Forecasting waste volume in remanufacturing using modern machine learning methods</i>
13:15-13:30	Jan Newada-Wysocki <i>Architectural analysis of selected hospitals in the context of rehabilitation of people injured as a result of war operations</i>
13:30-14:00	Closing Ceremony