



VENUE: Minerva Hotel, Hyla and Maya Hall, 2-4 Gheorghe Manu St., 1<sup>st</sup> District, Bucharest, Romania

## AGENDA

Thursday, September 5<sup>th</sup>, 2019

10.00-10.30	Welcoming Coffee
10.00-10.30	Welcoming Participants and Registration
Plenary session 1	
10.30-11.00	Opening speech; participants remarks (Himalaya Hall) <i>Prof. Dr.h.c. PhD Eng. Gheorghe Gheorghe, General Manager INCDMTM</i>

PARALLEL SESSIONS		
11.00 – 12.15	Parallel Sessions Round 1 (Hyla Hall) <i>Moderator: Rochdi el Abdi, Mech. Eng., PhD, Larmaur, Université de Rennes, FRANCE</i>	Parallel Sessions Round 1 (Maya Hall) <i>Moderator: Bogdan Gramescu, Mech. Eng., PhD, University "Politehnica" of Bucharest, Mechatronics and Precision Mechanics Department, ROMANIA</i>
11.00-11.15	A Simple Loading System Applied for Needle Bending Measurement <b>Jan Hošek</b> and Šárka Němcová	Study the Mechanical Behavior of Contact Lenses Dana Rizescu, Lucian Bogatu and <b>Ciprian Ion Rizescu</b>
11.15-11.30	Performance Evaluation of Different Mechanisms of Production Activity Control in the Context of Industry 4.0 Daniela Costa, Mariana Martins, Susana Martins, Eduarda Teixeira, Andreia Bastos, Ana Rita Cunha, Leonilde Varela, <b>José Machado</b>	The first and Second-Order Theory of Shearing and Compression in Case of the Beam Fixed at One end and Supported to Helical Spring at the Other End. <b>Cornel Marin</b>
11.30-11.45	Deep learning computer vision for sorting and size determination of municipal waste <b>Daniel Octavian Melinte</b> , Dan Dumitriu, Mihai Mărgăritescu and Paul-Nicolae Ancuța	Constructive Solution for Multi-Filament 3D Printing <b>Daniel Besnea</b> , Octavian Dontu, Edgar Moraru, Ciprian Rizescu, Gheorghe I. Gheorghe, Elena Dinu
11.45-12.00	Noise Analyses for Rolling Bearings <b>Ciprian Ion Rizescu</b> , Victor Constantin, Dana Rizescu, Daniel Besnea	Stand for characterization of shape memory wires <b>Emil Niță</b> and Daniel Comeagă
12.00-12.15	Development of an Equipment and Calibration Method for Bearing Rings Multi-Parametric Inspection <b>Cioboată Daniela</b> , Soare Adrian, Stanciu Dănuț, Abălaru Aurel, Logofătu Cristian	Control of an Autonomous Mobile Waste Collection Robot <b>Mihai Mărgăritescu</b> , Paul-Nicolae Ancuța, Eduard Valentin Canale, Dănuț Iulian Stanciu, Dan Dumitriu and Cornel Mircea Brișan



12.15-13.15		Lunch Break	
13.15 – 15.00	<b>Parallel Sessions Round 2: (Hyla Room)</b> <b>Moderator: Bogdan Gramescu, Mech. Eng., PhD, University "Politehnica" of Bucharest, ROMANIA</b>	<b>Parallel Sessions Round 2: (Maya Hall)</b> <b>Moderator: Jose Machado, Mech. Eng., PhD, University of Minho, School of Engineering, Mechanical Engineering Department, PORTUGAL</b>	
13.15-13.30	<b>Mechanical Strength of Stripped Optical Fiber</b> <b>R. El Abdi, R. Leite Pinto, P. Lallinec and M. Poulain</b>	<b>Smart Glasses</b> David Kovanda and <b>Jan Soukal</b>	
13.30-13.45	<b>AI Based Voice Translator to Sign Language</b> <b>Vlad Andrei Hanganu, Andra Daria Duță, Constantin Daniel Comeagă and Bogdan Grămescu</b>	<b>Concepts and mechatronics and cyber-mixmechatronics constructions, integrated in COBOT type technology platform for Intelligent Industry (4.0)</b> <b>Gheorghe Gheorghe</b>	
13.45-14.00	<b>Energy Harvesting from Renewable Energy Sources</b> <b>Marian-Alin Bănică</b>	<b>An approach of extracting features for fault diagnosis in bearings using the Goertzel algorithm</b> <b>Daniel Cordoneanu and Constantin Nițu</b>	
14.00-14.15	<b>Thermal analysis of some prosthetic dental biomaterials processed by selective laser melting</b> Lyubov Shpakova, Gheorghe Ion Gheorghe, Constantin Nitu, Octavian Dontu, <b>Edgar Moraru</b> , Daniel Besnea, David Dragomir	<b>Electromechanical Structure of the Experimental Model of a Robotic Head</b> Tudor Catalin Apostolescu, Georgeta Ionascu, Silviu Petrache, <b>Lucian Bogatu</b> and Laurentiu Adrian Cartal	
14.15-14.30	<b>Fabrication Technologies of Aeration Systems for the Ecological Treatment of Wastewater</b> <b>Edgar Moraru, Daniel Besnea, Octavian Dontu, Gheorghe I. Gheorghe, Ioana Corina Moga, Georgiana Elena Popescu</b>	<b>Pneumatic Incremental Proportional Valve</b> Mihai Avram, Constantin Bucsan, <b>Lucian Bogatu</b> and Daniel Besnea	
14.30-14.45	<b>Processing of Captured Digital Images for Measuring the Optometric Parameters Required in the Construction of Ultra-Personalized Special Lenses</b> <b>George Baboianu, Constantin Nitu and Constantin Daniel Comeaga</b>	<b>Clamping Mechanisms of an Inspection Robot Working on External Pipe Surface</b> <b>Bogdan Grămescu, Laurențiu Adrian Cartal, Ahmed Sachit Hashim and Constantin Nițu</b>	
<b>Plenary session 2</b>			
14.45-15.00	<b>Conclusions, closing remarks, discussions regarding future collaborations. End of conference</b>		

**Notes:**

- (1) You can also register at any time during the conference.
- (2) Certificate of Participation can be obtained from the registration desk.