

ICAMaT 2018

9th International Conference on Advanced Manufacturing Technologies

Conference Programme

November 1st, 2018 Bucharest, Romania



Organizers







Manufacturing Engineering (TCM) Department Faculty of Engineering and Management of Technological Systems (IMST), University POLITEHNICA of Bucharest

and







Manufacturing and Industrial Management Department Faculty of Mechanics and Technology University of Pitesti



Conference Programme

Thursday, 1 st of November 2018	
Time	Activities
9.00 – 11.00	Simpozionul Centenarul Marii Uniri - Oameni și fapte (<i>Great Unification Centenary Symposium – People and facts</i>) - IMST Faculty - Room CD 008 (The presentations will be held in Romanian)
	• Conf.univ.dr. Florentina Niţu, Decanul Facultăţii de Istorie, Universitatea din Bucureşti: <i>Universitarii bucureşteni si Marele Război (1914-1918) (Bucharest Academics and the Great War (1914-1918).</i>
	• Prof.univ.dr., Col. (r) Ion Giurcă, Universitatea Națională de Apărare "Carol I": Mareșalul Constantin Prezan – Doctor Honoris Causa al Școlii Politehnice din București (Marshal Constantin Prezan – Doctor Honoris Causa of the Polytechnic School of Bucharest)
	• Dr. Remus Nică: De la Unirea din 1918 la începutul celui de-Al Doilea Război Mondial. Premise și evoluții. (From 1918 Unification to the Beginning of the Second World War. Premises and evolution.)
	• Liviu Țăranu, Consilier CNSAS: 1918 - Lecții pentru prezent (1918 - Lessons for the present)
	• Dr. Alin Spânu: 1918 - Lumini și umbre(1918 - Lights and shadows)
10.30 – 11.30	ICAMaT 2018 & POLCOM 2018 participants registration, IMST Faculty main hall, Building CD
11.30 – 13.00	Opening ceremony of ICAMaT 2018 & POLCOM 2018 Conferences, Room CD 008
	 Welcome speech: Prof. Cristian DOICIN, Dean of the Faculty of Engineering and Management of Technological Systems, University POLITEHNICA of Bucharest, Romania
	Plenary sessions - Chairs: Prof. Tom SAVU, Prof. Constantin OPRAN
	• Romanian plastics industry - European level, Marcel DIACONU, ASPAPLAST – Romanian Plastics Processor Employers' Association
	• The automotive industry in Romania, integration component plastics in automotive, Silviu BADEA, ACAROM – Romanian Automobile Manufacturers Association
	• Scientific research, creativity and integrative technology, Prof. Marian GHEORGHE, University POLITEHNICA of Bucharest, Romania
	• University research for supporting Industry 4.0 adoption, Prof. Tom SAVU, University POLITEHNICA of Bucharest, Romania
	• Numerical testing and validation of LVI on composite plates, Prof. Giuseppe LAMANNA*, Prof. Francesco CAPUTO, University of Campania Luigi Vanvitelli, Aversa Italy
	• "Liquid Wood" - The biodegradable material, Prof. Dumitru NEDELCU*, Prof. Simona MAZURCHEVICI, "Gheorghe Asachi" Technical University of Iasi, Iasi, Romania
	Self Learning Health Monitoring Algorithm in Composite Structures, Prof. Luigi GRASSIA*, Prof. America CALIFANO, Prof. Alberto D'AMORE, University of Campania Luigi Vanvitelli, Aversa Italy
13.30 – 14.30	Lunch – IMST Faculty CO hall
14.30 – 17.30	Paper sections according to the conference programme
19.30	Gala Dinner (POTCOAVA restaurant)

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Sections

Thursday, 1st of November 2018, 14.30 -17.30		
Section 1	Manufacturing Processes and Tools - Room CB 203	
Section 2	Product Design and Development - Room CK 104b	
Section 3	Control, Quality and Management - Room CK 104c	

Section.1. Room CB 203/14.30-17.30. Manufacturing Processes and Tools

Section chairs: GHICULESCU Daniel, DIJMARESCU Manuela-Roxana

1 Khalil Abass

A Comparative Study of Simulation Models on Incremental Forming Process by Using the Enhancement Tools

2 Slawomir Swirad and Roman Wdowik

Applications of Taguchi Method in Selection of Process Parameters for Surface Roughness in Hydrostatics Burnishing

- 3 Abderrahim Belloufi, Mourad Abdelkrim, Imane Rezgui, Tarek Baafou Hammouya and Med Fares Eddin Boughaba Fuzzy Inference System for Modelling Cutting Temperature of AISI 1060 Steel in Milling Operations
- 4 Dan Chiorescu, Esmeralda Ionela Chiorescu, Sergiu-Constantin Olaru and Gheorghe Nagîț

 The Study of the Radius of Connection of the Die for Deep Drawing Using Analysis with Finite Element
- Mourad Abdelkrim, Abderrahim Belloufi, Imane Rezgui, Brabie G and Chirita Bogdan
 Study of the Effect of Cutting Conditions on Cutting Temperature Elevation when Machining AISI 1060 Steel in Milling Operations Using Surface Response Methodology
- 6 Radu-Eugen Breaz and Sever-Gabriel Racz

Considerations Regarding the Industrial Implementation of Incremental Forming Process

- 7 Melania Tera and Cristina-Maria Biris
 - Comparison Between Deep-drawing and Incremental Forming Processes from an Environmental Point of View
- 8 Gheorghe Nagit, Laurentiu Slatineanu, Oana Dodun, Marius Ionut Ripanu, Andrei Mihalache and Adelina Hrituc Influence of the Ball Vibrorolling Parameters on the Surface Roughness and on the Superficial Layer Hardness
- 9 Viorel Paunoiu, Catalina Maier, Nicusor Baroiu and Florin Pereira

Investigation of Hydroforming Technology for Manufacturing an Auto Complex Part

- 10 Manuela-Roxana Dijmărescu and Petre Gheorghe Tiriplică
 - Development of Cutting Forces and Surface Roughness Prediction Models for Turning a CoCrWNi Alloy
- 11 Mihai Crenganis and Akos Csiszar
 - A Dynamic Model for KUKA KR6 in SPIF Processes
- 12 Daniel Ghiculescu, Niculae Marinescu and Claudiu Pirnau

Experimenting and Modeling of Ultrasonically Aided Electrical Discharge Machining on Co-Cr-Ni-W-Al Alloy



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Section.2. Room CK 104b/ 14.30-17.30. Product Design and Development

Section chairs: DOICIN Cristian, GHEORGHITA Vlad

1 Andrei Dumitrescu and Mihaela-Elena Ulmeanu

Chromatic Preferences for Industrially-Manufactured Products

Vlad Gheorghiță and Cătălin Gheorghiță

Determining the Materials and Shape of Components within a System Attached to a Wheelchair

3 Dorina Fologea and Traian Mazilu

Rail Damper Functionality - Modelling and Experimental Determinations

4 Traian Mazilu and Mihai-Cornel Leu

On the Modelling of the Rail Joint

5 Madalina Dumitriu and Calin Constantin Juganaru

Numerical Analysis of the Vertical Bogie Accelerations at Failure of the Damper in the Primary Suspension of the Railway Vehicle

6 Madalina Dumitriu and Dragos Ionut Stanica

Influence of the Primary Suspension Damping on the Ride Comfort of Railway Vehicles

7 Gabriel Ionut Ghionea, Adrian Lucian Ghionea and Constantin Gheorghe Opran

Researches on the Design and Operation of a Magnetic Drive Micropump for the Mixing of Compatible Fluids

- 8 Mihaela-Elena Ulmeanu, Cristian-Vasile Doicin, Roman Murzac, Daniela Tunsoiu and Nicolae Tunsoiu Product Development of a Bio-composite Medical Device
- 9 Rocsana Bucea-Manea-Ţoniș and Ovidiu Blăjină

Factors Influencing Online Consumer Behavior in the Era of IoT

Section.3. Room CK104c/14.30-17.30. Control, Quality and Management

Section chairs: GHEORGHE Marian, TARBA Cristian

1 Marek Magdziak and Dominika Ziaja

Software Dedicated to Determining a Strategy of Coordinate Measurements

2 Roman Wdowik and Slawomir Swirad

Application of Focus-Variation Technique in the Analysis of Ceramic Chips

3 Elizaveta Gromova

Introduction of Flexible Manufacturing Systems as a Necessary Measure for the Russian Industrial Development

Ana Gavriluta

The Analysis of a Production Flow with the Help of Value Stream Mapping

5 Cornel Enciu, Cristian Tarba and Cristian Barbulescu

Acoustic Analysis of Cylindrical, Conical and Worm Gears

6 Mihaela Badea, Maria Magdalena Roșu and Manuela-Roxana Dijmărescu

Students' Satisfaction Given by Following Bachelor Studies and Starting a Career in Engineering Field

7 Mihail Aurel Titu and Gheorghe Pop

Regarding Quality Management System in Aerospace Industry Organizations

Markus Moritz, Marian Gheorghe and Daniel-Silviu Manolache

A Holistic Performance Management Approach in Business Networks

9 Tom Savu

Data Processing for Ship Screw Propellers Measurements

10 Markus Moritz, Daniel Fuchs and Marian Gheorghe

Impact of Hidden Networks in Business Systems