



10th International Conference on Advanced Manufacturing Technologies (ICAMaT 2019)
October 10th, 2019, Bucharest, Romania

ICAMaT 2019

**10th International Conference on Advanced
Manufacturing Technologies**

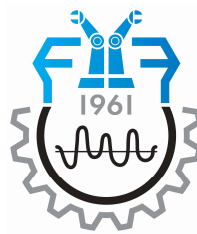
Conference Programme

**October 10th, 2019
Bucharest, Romania**



Organizer

Manufacturing Engineering (TCM) Department
Faculty of Industrial Engineering and Robotics (IIR),
University POLITEHNICA of Bucharest



Partners





Conference Programme

Thursday, 10th of October 2019

Time	Activities
8.30 – 11.30	ICAMaT 2019, ICNcT 2019 & POLCOM 2019 participants registration, IIR Faculty main hall
9.00 – 9.30	Celebration of 65 years of Manufacturing Engineering Department (TCM), Room CD 016 Opening ceremony of ICAMaT 2019, ICNcT 2019 & POLCOM 2019 Conferences, Room CD 016 <i>Welcome speech:</i> <ul style="list-style-type: none">• Prof. Cristian DOICIN, Dean of the Faculty of Industrial Engineering and Robotics (IIR), POLITEHNICA University of Bucharest, Romania• Prof. Tom SAVU, Head of Manufacturing Engineering Department (TCM), Faculty of Industrial Engineering and Robotics (IIR), POLITEHNICA University of Bucharest, Romania• Prof. Daniel GHICULESCU, Manufacturing Engineering Department (TCM), Faculty of Industrial Engineering and Robotics (IIR), POLITEHNICA University of Bucharest, Romania• Prof. Constantin OPRAN, Manufacturing Engineering Department (TCM), Faculty of Industrial Engineering and Robotics (IIR), POLITEHNICA University of Bucharest, Romania
9.30 – 11.30	Presentations of Manufacturing Engineering Department (TCM) Partners , Room CD 016 <ul style="list-style-type: none">• <i>Metalix - advanced CAD-CAM for the sheet metal industry</i>, General Manager Vasile DUȚĂ and Eng. Cristian LAZĂR, AGO TRADE INTERNATIONAL• <i>ALLIO GROUP - Company presentation</i>, Senior HR Cristina BRIZIOU, ALLIO GROUP Romania• <i>What's new in SolidWorks 2020</i>, General Manager Claudiu BÎRLOGEANU, CADWORKS International• <i>FlexSim Software Products</i>, Director of International Distribution Krystian KOGUT and Marian CRETU, InterMarium• <i>Esprit CAM Software Suite</i>, General Manager Dorin DASCĂLU, LOGICAD Solutions
11.30 – 11.45	Coffee break - IIR Faculty CO hall
12.00 – 13.30	Paper sections according to the conference programme
13.30 – 14.30	Lunch – IIR Faculty CO hall
15.00 – 16.30	Paper sections according to the conference programme
16.30 – 16.45	Coffee break - IIR Faculty CO hall
17.00 – 18.30	Paper sections according to the conference programme
19.00 – 24.00	Gala Dinner (POTCOAVA restaurant)



Conference Sections

Thursday, 10th of October 2019, 12.00 -13.30 / 15.00 -16.30 / 17.00 -18.30

Section 1 | Integrated Product Development - Room **CK 104c**

Section 2 | Flexible and Intelligent Manufacturing Systems - Room **CK 104b**

Section.1. **Room CK 104c/ 12.00 - 18.30. Integrated Product Development**

Section chairs: Andrei DUMITRESCU, Ionuț Gabriel GHIONEA

- 1 Andrei Dumitrescu
Investigating the relationship between perceived quality and reliability of industrially-manufactured products and their supposed gender
- 2 Marius-Adrian Spiroiu and Mircea Nicolescu
On the estimation of the reliability probabilistic model of railway wheelset
- 3 Mihaela-Cristina Tudorache and Ionut Neagoe
An analysis of vehicle - railway exchanger interaction
- 4 Mihaela-Cristina Tudorache, Razvan-Andrei Oprea and Ionut Neagoe
Influence of spin creepage on contact patch
- 5 Dragos Ionut Stanica and Madalina Dumitriu
Critical points numerical analysis of ride comfort of the flexible railway carbody
- 6 Gabriel Ionut Ghionea, Adrian Lucian Ghionea, Saša Ćuković and Mihaela Ionica Plesa
Analysis on the measurement results of the precision grades and their influence on the performance of the hydraulic pumps with spur gears
- 7 Alexandra-Elena Craciun
Strategic outlook in industrial design assessment based on product category
- 8 Traian Mazilu and Vladut-Marian Dinu
The vibration behaviour of a freight wagon in the presence of irregularities of the track
- 9 Mihai Eftimie, Ana Filip and Alexandra Banu
Theoretical calculus of the mechanical strength of binary oxide glasses



Section.2. **Room CK 104b/ 12.00 - 18.30. Flexible and Intelligent Manufacturing Systems**

Section chairs: Marian GHEORGHE, Tom SAVU

- 1 Cosmin Grigoras, Bogdan Chirita, Gheorghe Brabie and Catalina Ciofu
Experimental analysis of AZ31B magnesium alloy sheet failure using punch stretching
- 2 Marek Płaczek
Application of piezoelectric MFC type transducers in mechatronic measurement systems - the impact of a mechanical subsystem damage on a system operation
- 3 Cristian Dragomirescu and Victor Iliescu
Aspects on the study of nonlinear vibration phenomenon in friction welding with rotating active element
- 4 Carmen-Violeta Botezatu, Ionut Condrea, Bogdan Oroian, Adelina Hrituc, Mihaela Etcu and Laurentiu Slatineanu
Use of the Ishikawa diagram in the investigation of some industrial processes
- 5 Daniel Cristea, Mihai Alin Pop, Costin Faraian and Daniel Munteanu
The influence of additive manufacturing parameters on the structural and mechanical properties of acrylonitrile butadiene styrene (ABS) parts produced by fused filament fabrication
- 6 Alexandra Nitoi, Daniel Cristea, Mihai Alin Pop, Tibor Bedo, Bela Varga and Daniel Munteanu
Aluminum based metastable alloys for additive manufacturing
- 7 Cristian Pisarciuc
Assessing the influence of significative parameters used in 3D fused filament deposition
- 8 Diana-Irinel Baila, Sergiu Tonoiu, Mihai Catalin Stefan and Iasmin Sapadin
Experimental researches concerning the manufacture of multitool 3D printer, type DIY (do it yourself)
- 9 Mirko Djapic, Predrag Popovic and Ljubomir Lukic
Lean business practice as support to QMS implementation in according to ISO 9001:2015
- 10 Madalin-Gabriel Catana, Manuela-Roxana Dijmarescu and Nicolae Tunsoiu
Process planning solution for increasing the productivity and robustness of work schedules for batch production processes
- 11 Tom Savu and Bogdan Jugravu
Indoor path planning and obstacle avoidance simulation
- 12 Alfred Tieber, Daniel Manolache and Marian Gheorghe
Development of key performance indicators modules for small and medium-sized enterprises in production industry