

ICAMaT 2022

12th International Conference on Advanced Manufacturing Technologies

Conference Programme

October 21st, 2022 Bucharest, Romania



Organizer

Manufacturing Engineering (TCM) Department

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



Conference Programme

Friday, 21st October 2022**Time (RO)Activities09.00 – 10.00ICAMaT 2022 Participants registration – CK 104 main hallICAMaT 2022 opening – ROOM CK 104b**
Welcome speech:
• Prof. Cristian DOICIN, Dean of the Faculty of Industrial Engineering and Robotics (IIR),
POLITEHNICA University of Bucharest, Romania**10.00 – 10.30**Prof. Cristian DOICIN, Dean of the Faculty of Industrial Engineering and Robotics (IIR),
POLITEHNICA University of Bucharest, Romania**10.30 – 11.50**Paper sections according to the conference programme**11.50 – 12.10**Coffee Break**12.10 – 13.30**Paper sections according to the conference programme**16.00 – 20.00**Early Dinner (POTCOAVA restaurant)



Conference Sections

Friday, 21st of October 2022, 10.30 -11.50 / 12.10 -13.30 (RO)

- Section 1 Integrated Products and Systems Development ROOM CK 104a
- Section 2 Flexible and Intelligent Manufacturing and Control Systems ROOM CK 104b
- Section 3 Industrial Products and Systems Online on MS Teams platform (please access this link)

Section 1. Integrated Products and Systems Development

Section.1. Integrated Products and Systems Development - ROOM CK 104a

Section chairs: Cristian DOICIN, Daniel GHICULESCU

1 Andrei DUMITRESCU

Perceived characteristics of materials as tools for designer

- 2 Miruna Lucreția COMEAGĂ Digital transformation of the laboratories
- 3 Ileana DUGĂEȘESCU, Gabriela-Marina PÂRVU, Vlad-Cristian ENACHE Development of an additive fabricated biped mechanical system
- 4 Daniel GHICULESCU, Raluca CREȚU, Ovidiu ALUPEI Research concerning ultrasonic chains with torsional vibrations for different industrial applications
- 5 Nicolae IONESCU, Mihaela-Elena ULMEANU, Cristian Vasile DOICIN, Cătălin IONESCU, Paulina SPÂNU Prescribed precision for medical products obtained with additive manufacturing technologies
- 6 Bogdan Adrian NICOLIN, Ilie NICOLIN Simulation of the hydraulic steering device, for a nose landing gear



Section 2. Flexible and Intelligent Manufacturing and Control Systems

Section.2. Flexible and Intelligent Manufacturing and Control Systems - ROOM CK 104b

Section chairs: Marian GHEORGHE, Tom SAVU

1 Diana Irinel BĂILĂ, Sergiu TONOIU

Properties of photo-curable polyurethane resins used in SLA manufacturing

- 2 Tom SAVU, Bogdan Alexandru JUGRAVU Vehicles fleet communications in data infrastructure unavailability situations
- 3 Laurențiu-Aurel MIHAIL, Alexandru FILIP, Adrian MIJA

Researches on the geometrical and dimensional accuracy for complex thin parts made of electrical steel by abrasive waterjet machining

4 Marian GHEORGHE, Flavia Petruța Georgiana STOCHIOIU, Daniel-Silviu MANOLACHE, Manuela-Roxana DIJMĂRESCU, Dragoș ILIESCU

Analysis and development on general structure and characteristics of laser interferometry systems

- 5 Flavia Petruța Georgiana STOCHIOIU, Constantin STOCHIOIU, Ana Maria Eulampia ROLEA, Nasim GANNAM Interferometric evaluation of positioning error and position repeatability on CNCs
- 6 Ioan Alexandru POPAN, Nicolae BÂLC, Alina Ioana POPAN, Andrei Nicolae CERCIU Experimental studies on turning process, using the Prime turning processing strategy, proposed by Sandvik Coromant



Section 3. Industrial Products and Systems

Section.3. Industrial Products and Systems – online (please access this link)

Section chairs: Cristian TARBĂ, Manuela-Roxana DIJMĂRESCU

1 Adelina HRIŢUC, Andrei-Marius MIHALACHE, Laurențiu SLĂTINEANU, Oana DODUN, Gheorghe NAGÎŢ, Marius Ionuț RÎPANU

The influence of the cooling conditions and inclination of surfaces obtained by 3D printing on the roughness parameters

2 Ciprian RAD, Olimpiu HANCU, Ciprian LĂPUȘAN

Aspects regarding the modelling and design of 3D-printed bending soft pneumatic actuators

- 3 Elhocine CHIBA, Mourad ABDELKRIM, Abderrahim BELLOUFI, Imane REZGUI and K. MAOU Monitoring the temperature of contact wheel/rail in a tramway with an infrared sensor programmed by a microcontroller
- 4 Paul TUCAN, Florin GRAUR, Andrei CAPRARIU, Corina RADU, Alin BURZ, Calin VAIDA, Nadim AL HAJJAR, Tiberiu ANTAL, Doina PISLA

A functional design analysis of a robotic-guided brachytherapy instrument

- 5 Sergiu PASCU, Nicolae BÂLC, Adrian Augustin POP Reconstruction of orbital wall by using hybrid manufacturing operations
- 6 Crina-Andreea DUTA, Nicoleta Luminița CĂRUȚAȘU, Iulia Cristina STANICA, Andrei GEORGIAN

Criteria for analyzing online traffic encountered in web and mobile applications in order to model an automated application testing system

7 Goran MUNĐAR

Development and control of a virtual industrial process for assembling computers

8 Liviu Mihai SIMA

Testing mechatronic systems and their integration into the digital enterprise