



32nd edition

ICMaS

2023

November 16, 2023
Bucharest, Romania

**International Conference
on
Manufacturing Systems**

CONFERENCE PROGRAM

32nd edition of

INTERNATIONAL CONFERENCE
ON MANUFACTURING SYSTEMS



ICMaS 2023

November 16, 2023
Bucharest, Romania

Organized by

Robots and Manufacturing Systems Department

from

National University of Science and Technology Politehnica Bucharest
Industrial Engineering and Robotics Faculty

With the support of

- Ministry of National Education
- National University of Science and Technology Politehnica Bucharest
- Industrial Engineering and Robotics Faculty
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CONFERENCE PROGRAM

Thursday, 16 November 2023

08:30 – 09:00 Registration – Lounge CD

09:00 – 10:00 Opening ceremony, Room CD 008

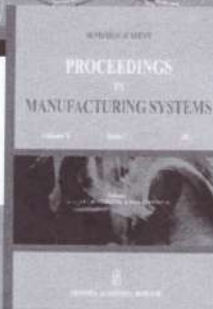
75th anniversary of the Robots and Manufacturing Systems Department

10:00 – 12:00 Plenary session, Room CD 008

- *Slavenko STOJADINOVIC, Vidosav MAJSTOROVIC,*
Digital measuring systems in smart manufacturing context
- *Bruno RĂDULESCU, Andreea PANĂ, Mara RĂDULESCU,*
Adelina HRIȚUC, Adriana MUNTEANU, Andrei MIHALACHE,
Oana DODUN, Gheorghe NAGÎȚ, Laurențiu SLĂTINEANU,
Evaluation on a lathe of circularity deviation and factors that could affect its measurement accuracy
- *Panagiotis SPANIDIS, George-Christopher VOSNIAKOS,*
Redesign of metal parts for additive manufacturing: a review of case studies
- *George-Christopher VOSNIAKOS, Efthymios STATHAS,*
Exploring collaboration of humans with industrial robots using ROS-based simulation
- *Goran MUNDAR, Rudolf-Leon FILIP, Uroš ŽUPERL,* Tool wear analysis with machine vision: an accurate and non-contact measurement approach
- *Diana POPESCU, Tudor ALEXANDRU,*
Florin BACIU, Nicoleta CARUȚAȘU
3D-printed customized wrist-hand orthoses – An overview of an approach based on thermoforming
- *Adrian MAROȘAN, George CONSTANTIN, Claudia Emilia GÎRJOB,*
Anca Lucia CHICEA, Mihai CRENGANIȘ,
Real time data acquisition of low-cost current sensors ACS712-05 and INA219 using Raspberry PI, DAQCplate and Node-RED



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Aims and Scope

Journal Proceedings in Manufacturing Systems is an international journal having the roots in the first machine tools conference founded in 1974 by the Machine Tools Department of the University "Politehnica" of Bucharest.

The main objectives of the journal are to provide an international forum for exchanging knowledge, experience, results and information related to various aspects of the advanced manufacturing systems. The journal offers a unique opportunity for experts in this domain to share their experience.

The journal publishes papers in the following main fields:

- Machine tools
- Robotics
- Industrial Logistics
- Machines and equipments
- Driving systems and control systems
- Cutting and cutting tools
- Flexible manufacturing systems
- Advanced manufacturing technologies
- Approach on CAD, CAM, CAE techniques
- Industrial management and marketing