ICAMaT 2025

14th International Conference on Advanced Manufacturing Technologies

Conference Programme

November 20th, 2025
Bucharest, Romania

Organizer

Manufacturing Engineering (TCM) Department

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

Conference Programme

Thursday, 20th of November 2025

Time (RO)	Activities (hybrid format)
10.30 - 11:00	**Participants registration – CK 104 main hall,** Faculty of Industrial Engineering and Robotics, National University of Science and Technology POLITEHNICA Bucharest
11.00 - 11.20	**ICAMaT 2025 opening – CK 104c & MS Teams** *Welcome speech*: • **Prof. Cristian DOICIN**, Dean of the Faculty of Industrial Engineering and Robotics (IIR), National University of Science and Technology POLITEHNICA Bucharest, Romania • **Prof. Nicolae IONESCU**, Head of Manufacturing Engineering Department (TCM), Faculty of Industrial Engineering and Robotics (IIR), National University of Science and Technology POLITEHNICA Bucharest, Romania
11.20 – 13.30	Plenary session – CK 104c & MS Teams
13.30 – 14.30	Lunch Break – CK 104 main hall
14.30 – 16.30	Plenary session – CK 104c & MS Teams
19:30	Festive dinner – Restaurant Caru' cu bere

Plenary session

Flexible and Intelligent Manufacturing and Control Systems

ICAMaT 2025 - Online Paper Presentations - November 20th, 2025

ROOM CK 104c -- 11.20 – 16.30

Chairs: *Prof. PhD Eng.* ***Laurențiu SLĂTINEANU****, Prof. PhD Eng.* ***Marian GHEORGHE,***

Assoc. Prof. ***Manuela-Roxana DIJMĂRESCU***

1 Dragoș ILIESCU

11:20 *Towards a Mathematical Model for the Product Conformity Assessment*

2 Vlada ȚISARI, Oana DODUN, Gheorghe NAGÎȚ, Andrei Marius MIHALACHE, Margareta COTEAȚĂ, Roxana-Gabriela HOBJÂLA, Laurențiu SLĂTINEANU

11:40 *Ordering the Influencing Factors of the 3D Printing Process Using the Rank Correlation Method*

3 Laurențiu SLĂTINEANU, Margareta COTEAȚĂ, Oana DODUN, Gheorghe NAGÎȚ, Andrei Marius MIHALACHE, Marian GHEORGHE, Vlada ȚISARI

12:00 *Observations on the Design of a Manufacturing Technology Using Artificial Intelligence*

4 Cosmin-Gabriel GRĂDINARU, Răzvan-Nicolae MITITELU, Vlada ȚISARI, Gheorghe NAGÎȚ, Vasile ERMOLAI

12:20 *Comparative Assessment of Deforming Elements in Cold Hardening of Internal Cylindrical Surfaces Using Topsis*

5 Damian-Claudiu PETRU, Radu-Eugen BREAZ, Anca-Lucia CHICEA, Sever-Gabriel RACZ, Claudia-Emilia GÎRJOB, Paula-Nicoleta DRAȘOVEAN, Diana-Maria BÂRSAN

12:40 *Study on the Selection of the Most Influential Industry 4.0 Technologies from the Point of View of Manufacturing Processes, Using the AHP Method*

6 Dan COJOCARU, Gheorghe SOLOMON, Maria-Cristina TOADER, Manuela-Roxana DIJMĂRESCU

13:00 *A General Model for Collective Protection in the Field of Industrial Sites*

13:30 Lunch break – CK104 main hall

7 Mihai CRENGĂNIȘ, Claudia Emilia GÎRJOB, Anca Lucia CHICEA, Gabriel RACZ, Adrian MAROȘAN, Vasile Alexandru MAGA

14:30 *The design and development of a mobile platform with differential-drive for various applications*

8 Volodymyr KUKHAR, Elena BALALAYEVA, Hlib KHLIESTOV, Olha KHLIESTOVA, Sergiu MAZURU

14:50 *Analysis of Technological Regimes of Open-die Forging with Model Development for Digital Systems of Metallurgical Production*

9 Melania BURGHELEA, Claudia-Emilia GÎRJOB, Anca-Lucia CHICEA, Adrian-Iosif MAROȘAN

15:10 *Theoretical and Experimental Study of Incremental Forming for Truncated Cone Parts Made from Overlapped Metal Sheets*

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Assoc. Prof. ***Manuela-Roxana DIJMĂRESCU***

10 Marinela INȚĂ, Liliana-Georgeta POPESCU, Marius-Bogdan CHILIBAN

15:30 *Research on Improving a Passive Safety Systems Production Line Through Line Balancing*

11 Rocsana BUCEA-MANEA-ȚONIȘ, Nasim GANNAM, Nicolae IONESCU, Laurențiu SLĂTINEANU, Petre TIRIPLICĂ

15:50 *Framework, performance elements and case study on sustainable development of industrial systems*

12 Marius-Vali LAZĂR, Marian GHEORGHE, Tom SAVU, Nicolae IONESCU

16:10 *Roughness regression functions of 3D printed PETG parts surfaces machined by CNC milling*

13 Marius-Vali LAZĂR, Vlad Cristian ENACHE, Sergiu TONOIU

16:30 *Development of thermoplastic technological models by 3D printing and CNC milling for silicone molds manufacturing*