



15th International Forum of Mechanical and Mechatronics Engineering

Technical University of Cluj-Napoca, 21 - 22 Nov. 2023

PROGRAM

Tuesday, 21 Nov. 2023

8.30-9.00	Registration	
9.00-9.15	Opening Session	
	Welcome by representatives of Technical University of Cluj-Napoca Rectorate	
9.15 – 10.40	1st Session: Industry, innovation and infrastructure <i>Chair: Assoc.Prof. dr.eng. Ciprian Lăpușan</i>	
	9.15-9.30	Industry partnerships at Technical University of Cluj-Napoca <i>Flavia Jascau, Technical University of Cluj-Napoca, Romania</i>
	9.30-9.45	Railway multibody dynamics: modeling and industrial application <i>Prof. Javier Aceituno, University of Jaen, Spain</i>
	9.45-9.55	Exploring the Evolution: Past, Present, and Future Projects of Laboratory of Advanced Mechatronic Systems <i>Assoc. Prof. dr. eng. Sergiu-Dan Stan, Technical University of Cluj-Napoca, Romania</i>
	10.00-10.10	Innovative horizons: exploring research partnerships <i>Eng. Andrei Rusu, NTT DATA Romania, Romania</i>
	10.10-10.25	Results obtained in European Projects within Energy Transition Research Center <i>Prof. dr. eng. Dan Doru Micu, Technical University of Cluj-Napoca, Romania</i>
	10.25-10.40	How to Facilitate Artificial Intelligence Education in Industry <i>Kati Valpe-Ojala, JAMK University of Applied Sciences, Finland</i>
10.40-11.10	Coffee break and Networking	
11.10-12.40	2nd Session: Education in the digital age <i>Chair: Senior Lecturer Anneli Kakko</i>	
	11.10-11.25	Fostering excellence in engineering education through an international co-teaching framework as part of NextGEng Project <i>Assoc.Prof.dr.eng. Ciprian Lăpușan, Technical University of Cluj-Napoca, Romania</i>
	11.25-11.40	NextGEng Co-Teaching Pilot Program <i>Lecturer .dr. eng. Ciprian Rad, Technical University of Cluj-Napoca, Romania</i>
	11.40-11.55	NextGEng - Cases for Experiential Learning Projects <i>Prof. dr. eng. Silvia Satorres Martínez, University of Jaen, Spain</i>
	11.55-12.10	Educational programs at Bosch <i>State Antoneta, Eleonora Patru, Bosch Cluj Plant, Romania</i>
	12.10-12.25	Cooperation partnership for addressing complexity in business <i>Senior Lecturer Anneli Kakko, JAMK University of Applied Sciences, Finland</i> <i>Assoc. Prof. dr. eng. Violeta Firescu, Technical University of Cluj-Napoca, Romania</i>

12.25-12.40	Entrepreneurial education and innovation in engineering <i>Assoc. Prof. dr. eng. Anca Constantinescu, Technical University of Cluj-Napoca, Romania</i>
12.40 – 13.40	Lunch at “Maimuta Plangatoare” Restaurant
13.40-16.30	Company Visit - Bosch Cluj Plant
19.00	Dinner and Networking [Casa Boema Restaurant]

Wednesday, 22 Nov. 2023

9.00-10.30	3rd Session: Innovation Driven Health Care [Videoconference link] <i>Chair: Prof. dr. eng. Dan Mândru</i>
9.00-9.15	Brain-computer interface as a rehabilitation tool <i>Lecturer dr. eng. Alexandru Ianosi Andreeva Dimitrova, Technical University of Cluj-Napoca, Romania</i>
9.15-9.30	CorFlux – a digital decision making tool for estimating the rupture of aortic aneurysms <i>Principal Researcher Dr. Matti Kurki, JAMK University of Applied Sciences, Finland</i>
9.30-9.45	Advances in surgical robotics <i>Prof. dr. eng. Doina Pişlă, Technical University of Cluj-Napoca, Romania</i>
9.45-10.00	Novel techniques for Lung Disease Diagnosis and Evaluation <i>Assoc. Prof. dr. eng. Roxana Rusu-Both, Technical University of Cluj-Napoca, Romania</i>
10.00-10.15	Non Woven Materials and Tissue Engineering <i>Dr. Frederic Heim, Université de Haute-Alsace</i> [Online]
10.15-10.30	Innovating Recovery: VR approach in Hand Rehabilitation <i>PhD Stud. Eng. Cosmin Coţia, Technical University of Cluj-Napoca & RehabVR SRL, Romania</i>
10.30-11.00	Coffee break and Networking
11.00 – 12.30	4th Session: Sustainable development [Videoconference link] <i>Chair: Prof.dr.eng. Silvia Satorres Martínez</i>
11.00-11.15	Towards a sustainable production of virgin olive oil through the use of new sensory technologies <i>PhD Stud. eng. Sergio Illana Rico, University of Jaen, Spain</i> <i>Prof. dr. eng. Silvia Satorres Martínez, University of Jaen, Spain</i>
11.15-11.30	Design Fabrication by Rapid Prototyping Complex Parts with FDM 3D Printing <i>Dr. Muhammad Fadhil Wong Abdullah, Hochschule Munich University of Applied Sciences</i> [Online]
11.30-11.45	Innovative circular economy training based on BIM ad LCA technologies <i>Assoc.Prof. dr. eng. Maria Pop, Technical University of Cluj-Napoca, Romania</i>
11.45-12.00	Mobility justice for all: framing safer, healthier and happier streets <i>Assoc.Prof. dr.eng. Lucian Fecete, Technical University of Cluj-Napoca, Romania</i>
12.00-12.15	Growing with Students: Mechatronics Project for Automated Plant Cultivation <i>B. Eng. Kimberly Steiner, Hochschule Munich University of Applied Sciences</i> <i>B. Eng. Niklas Neddermeyer, Hochschule Munich University of Applied Sciences</i> [Online]
12.15-12.30	HiEduCarbon - An Erasmus KA2 Project for LCA assessment <i>Lecturer dr. eng. Tania Rus, Technical University of Cluj-Napoca, Romania</i>
12.30-13.00	Announcement IFM2E 2024 & Closing IFM2E 2023 <i>Anneli Kakko & Kati Valpe-Ojala, JAMK University of Applied Sciences, Finland</i>
13.00 – 14.00	Lunch at “Maimuta Plangatoare” Restaurant
14.00 – 17.30	Social Event – Visit to Salina Turda



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<https://ifme2023.utcluj.ro/>