CONFERENCE PROGRAM

Tuesday 13rd May, 2025 (GMT+2)

10:00 – 16:00 PM	**Touring and Welcome meeting (optional)**
	Touring around VSB-TUO's laboratories and welcome meeting.

Wednesday 14th May, 2025 (GMT+2)

*The program time may be subject to change due to the availability of the speakers.

8:00 – 9:00 AM	**REGISTRATION** *Entrance hall, Building UA*	
9:00 – 9:15 AM	**OPENING CEREMONY** **Welcome speech**	
	Prof. Jana Petru *VSB - Technical University of Ostrava, VSB-TUO, Czech Republic*	
9:15 – 10:35 AM	**SESSION 1 | Room NA2** *Smart Economy, Industrial Management, Mathematical and Simulation Model, Digital Transformation, E-commerce, Finance, Political Economy, Management, Logistics.*	
9:15 – 10:35 AM Keynote presentation takes 15 minutes + 5 minutes Q&A Other presentations take 10 minutes + 5 minutes Q&A	Smart Economy in the Era of Data Sovereignty: Opportunities and Risks (9:15 – 9:35)	**Ing. Hana Štverková, Ph.D., MBA, LL.M.** *VSB - Technical University of Ostrava, VSB-TUO, Czech Republic*
	Market Tourism and Tourist Perceptions: A Topic Modeling Analysis of Ben Thanh Market (9:35 – 9:50)	**Duy-Minh Huu Nguyen** *University of Economics Ho Chi Minh City, UEH, Vietnam*
	Barriers of AI adoption in micro, small, and medium businesses (9:50 – 10:05)	**Jan Josifek** *Brno University of Technology, VUT, Czech Republic*
	Research on the Impact of Factors on Green Business: Empirical Evidence from Vietnam and Policy Implications (10:05 – 10:20)	**Tran Thuy Vu** *Thu Dau Mot University, TDMU, Viet Nam*
	A Multi-Agent Retrieval-Augmented Generation System for Automated SEO Content Creation in E-commerce (10:20 – 10:35)	**Phi Nguyen Nhat Long** *VNUHCM – University of Information Technology, UIT, Vietnam*
10:35 – 10:55 AM	**COFFEE BREAK | Foyer**	
10:55 – 12:15 PM Keynote presentation takes 15 minutes + 5 minutes Q&A Other presentations take 10 minutes + 5 minutes Q&A	**SESSION 2 | Room NA2** *Smart Factory, Non-Conventional Manufacturing, Advanced Materials, Simulation, Robotics, Automation, Autonomous Driving, Digital Twin, Industry 4.0.*	
	Sustainable practices in machining processes for aerospace applications (10:55 – 11:15)	**Prof. Munish Gupta** *Opole University of Technology, PO, Poland*
	The Standardization Process in Additive Manufacturing – Case Studies (11:15 – 11:30)	**Tomasz Kozior** *Kielce University of Technology, KUT, Poland*
	Comparison of Surface Characteristics: PWJ-Treated vs. Original Femoral Stems (11:30 – 11:45)	**Gabriel Stolarik** *Technical University of Kosice, TUKE, Slovak Republic*
	Development Characterization and Performance Analysis of AlTiN Coated Cutting Tool Developed using Various PVD Techniques (11:45 – 12:00)	**Ranjan Kumar Ghadai** *Manipal Institute of Technology, MAHE, Manipal, India*
	Effects of Extrusion Parameters on Filament Quality and Mechanical Properties of 3D-Printed PC/ABS Components (12:00 – 12:15)	**Hoang Tung Nguyen** *University of Defence, UNOB, Czech Republic*

12:15 – 12:30 PM	**COLLECTIVE PHOTO**	
12:30 – 13:15 PM	**LUNCH**	
13:15 – 14:35 PM Keynote presentation takes 15 minutes + 5 minutes Q&A Other presentations take 10 minutes + 5 minutes Q&A	**SESSION 3 | Room NA2** *Artificial Intelligence, Smart Electronics, Internet of Things, Wireless Communication, Cloud Computing, Cyber Security, Network Analysis, Big Data, Data Visualization, Blockchain.*	
	Using IoT technology IQRF for measuring geotechnical and environmental quantities (13:15 – 13:35)	**Assoc. Prof. Radovan Hájovský** *VSB - Technical University of Ostrava, VSB-TUO, Czech Republic*
	Early Fault Detection in Pump Systems Using Unsupervised Anomaly Detection Techniques (13:35 – 13:50)	**Hoang-Anh Dang** *Hanoi University of Science and Technology, HUST, VietNam*
	Development of novel prediction method for energy use intensity based on ANFIS technique: Case Study in HCMC office buildings (13:50 – 14:05)	**Tung Van Nguyen** *Van Lang University, VLU, Vietnam*
	A Non-Invasive Iris-Based Approach for Early Lung Cancer Detection (14:05 – 14:20)	**Hung Ho-Dac** *Thu Dau Mot University, TDMU, Viet Nam*
	A hybrid framework for improving students' performance prediction based on CNN with Bi-LSTM (14:20 – 14:35)	**Trang Nguyen** *HCMC University of Foreign Languages and Information Technology, HUFLIT, Vietnam*
	COFFEE BREAK | Foyer	
14:55 – 16:10 PM Presentations take 10 minutes + 5 minutes Q&A	**SESSION 4 | Room NA2** *Smart Factory, Non-Conventional Manufacturing, Advanced Materials, Simulation, Robotics, Automation, Autonomous Driving, Digital Twin, Industry 4.0.*	
	Analysis of 3D printed metric nuts manufactured by the MEX method from ASA material (14:55 – 15:10)	**Tomas Drazan** *University of Defence, UNOB, Czech Republic*
	Evaluation of rheological properties of two-blade propeller models manufactured using 3D printing technology (15:10 – 15:25)	**Bochnia Jerzy** *Kielce University of Technology, KUT, Poland*
	Metrological measurement problems of surfaces texture manufactured by 3D printing technology - MEX and highly soft material (15:25 – 15:40)	**Dominik Malara** *Central Office of Measures / Kielce University of Technology, KUT, Poland*
	Metrological 3D scanning strategy analysis in aspects of 3D printed sample (15:40 – 15:55)	**Aleksandra Bochenek** *Metrological IT Laboratory, Central Office of Measures, Poland*
	Evaluation of microstructure of two combined materials PLA-Cu and TPU in multi-material 3D Printing (15:55 – 16:10)	**Pawel Szczygiel** *Kielce University of Technology, KUT, Poland*
16:10 PM	**POSTER SESSION** Entrance hall, Building UA	
18:00 PM	**GALA DINNER**	
19:00 PM	**DISCUSSION AND NETWORKING**	

Thursday 15th May, 2025 (GMT+2)

8:00 – 16:00 PM	**TOURING AND NETWORKING**
	Touring in Geological Pavilion prof. F. Posepneho of VSB - TUO.