

14th PhD Conference - Industrial and Information Engineering

21 May 2026 · Dipartimento Politecnico di Ingegneria e Architettura - Università di Udine

The PhD Conference is an annual event organized by the PhD Programme in Industrial and Information Engineering. It is intended as an opportunity for PhD students to present the progress of their research to fellow students, alumni, faculty members, and representatives of local industry. The conference opens with a plenary session featuring a keynote lecture by Federica Arrigoni, Associate Professor at the Politecnico di Milano, and alumna of the XXX cycle.



Speaker and title index

Slot	Time	Speaker	Title
K	09:30	Federica Arrigoni	3D reconstruction and the viewing graph
P1	10:30	Zeeshan Ahmad	PINNs for Fatigue Crack Growth under Fracture Mechanics
P2	10:45	Narjes A. Baloochi	Fatigue Behavior of Additively Manufactured Stainless Steels
P3	11:00	Lorenzo Collodel	AI for Sailboat Navigation
P4	11:15	Jacopo Foltran	Advanced Sensing and Digital Twins for Smart Monitoring
P5	11:30	Franci Rrapi	Large Language Models for Human-Robot Collaboration in Industry 5.0
P6	11:45	Negar Shahablavasani	Longitudinal Sustainability of Kaizen Performance Improvements
P7	12:00	Elahe S. Soltandoost Naji	Explainable Reinforcement Learning for Safe Operator 4.0 Workspaces
AI1	12:30	Luca Zaccagna	LSBMAR: Latent Schrödinger Bridge for Metal Artifact Reduction in CT Scans
AI2	12:50	Mumtaz Alam Hafiz	A Data-Driven Approach to Intelligent Quotation Systems in Manufacturing
AI3	14:30	Mohamed Hamdi	Apicus on Glass Containers
AI4	14:50	Yellam N. Kottavalasa	AI for Economic and Sustainable Polymer Production Plants
AI5	15:10	Ehsan Rassekh	Situation Tracking from Video
AI6	15:50	Ahsan Shabbir	Porosity Detection in Medical Implant Manufacturing
ME1	12:30	Emanuele Avoledo	Experimental and Computational Analysis of NiTi Auxetic Structures
ME2	12:50	Massimiliano Ceppi	Optimization of Manufacturing processes via simulation

Slot	Time	Speaker	Title
ME3	14:30	Erica Billè	Process Optimization and Aging of High-Performance Polymers in FFF
ME4	14:50	Giuliano Fabris	Trajectory Planning and Optimization for Energy Efficiency in Robotic Systems
ME5	15:10	Federico Milan	Fatigue Characterisation of Brazed Joints in Microchannel Heat Exchangers
ME6	15:50	Lisa Ortis	TVA's made of in-vacuo structured fabrics
ME7	16:10	Noel Sheshi	Phase-field modeling of fracture and delamination: from micro to macro-scale
ME8	16:30	Jasen Zenzerovic	Defect Analysis and Fatigue Prediction in FFF 316L Steel
SE1	12:30	Erica Baccichetti	Semi-Classical Modelling of Graphene-based Dirac-Source FETs
SE2	12:50	Giovanni Dalla Colletta	Neuro-inspired non-linear control of VRM PoL converter
SE3	14:30	Federico Iob	New magnetic topology for high efficiency VRM PoL for Data Centers
SE4	14:50	Kaushik Mirdoddi	Characterization and Modeling of Wide-Bandgap Power Semiconductor Devices
SE5	15:10	Bruno Nanino	Technology-Aware Design of a Fully-Integrated Voltage Regulator
SE6	15:50	Khanh Duy Nguyen	First-Principles Quantum Transport for Atomistic Nanoelectronics
SE7	16:10	Simone Saro	Modeling Dielectric Absorption effects in pipeline ADCs
SM1	12:30	Antea Monte	Risk and Quality Management in Medical Devices and Humanized Care Processes
SM2	12:50	Camilla Pasut	Managing strategy and decision-making in ambidextrous contexts