



**UNIVERSITÀ  
DI PARMA**

**Thursday, 1 October 2026, 3 PM**

**PHD COURSE IN INDUSTRIAL ENGINEERING**

**PhD-ISTI**

**INNOVATION DAY 2026**

**The new frontiers of research according to young  
researchers at the Department of Engineering for  
Industrial Systems and Technologies**

**Centro S. Elisabetta, Parco Area delle  
Scienze (Campus)**



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## PhD-ISTI INNOVATION DAY 2026

NEW DIRECTIONS OF RESEARCH PRESENTED BY THE YOUNG RESEARCHERS OF THE  
DEPARTMENT OF ENGINEERING FOR INDUSTRIAL SYSTEMS AND TECHNOLOGIES

### AGENDA:

ore 15:00: Institutional greetings by Prof. **Alessandro Tasora** (PhD Programme Coordinator) and Prof. **Daniel Milanese** (Rector's Delegate for Technology Transfer).

ore 15:30: **Riccardo Abbati** - "Task-Constrained Path Planning in C-Space Safe Corridors"

ore 15:45: **Tommaso Derossi** - "Data-Driven Downtime Reduction in Manufacturing Systems: Resolution and Ex-post Characterization of Blocking Alarms"

ore 16:00: **Lorenzo Fendillo** - "Development Of A Novel Methodology For Balancing Rotors Using Computer Vision"

ore 16:15: **Rachele Schiasselloni** - "Cooling Electronics While Generating Power: A Thermomagnetic Pulsating Heat Pipe Approach"

ore 16:30: **Matteo Di Febo** - "Recyclability Assessment Of AlOx-Coated Mdope Monomaterial Films For Flexible Food Packaging Applications"

ore 16:45: **Mohd Hassan** - "Recycling of PLA"

ore 17:00: **Antonio Panico** - "Change point detection for extreme downside correlation with application on electricity market"

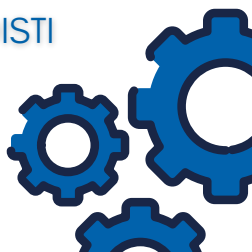
ore 17:15: **Gloria Tamboroni** - "Experiments on Conversational Agents to Support Effective Process Management in Public Administrations"

ore 17:30-18:00: **Poster Session & Discussion**

ore 18:00: **Award Announcement**

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### POSTERS:

**Carlo Acerbi** - "Optimization of the Friction Stir Extrusion process through experimental and numerical analysis"

**Alessandro Carloni** - "Integrated approach to the modelling and optimisation of industrial systems"

**Arianna Ferrari** - "Soft Tissue Modelling: From Arterial Mechanics to Bronchial Dynamics"

**Marzia Gallo** - "Development of bio-Based Fillers for enhanced flame retardancy in polymer composites"

**Riccardo Gherardini** - "Study and optimization of mechanical properties of injection molded PLA samples via DoE and Machine Learning approaches"

**Seyed Mojtaba Hejazi** - "Pressure ripple based health indicator for fault diagnostic in axial piston pump"

**Davide Primo Nicolosi** - "Advanced Optimization of Logistics and Production Systems through Hybrid Sim-Heuristic Approaches"

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