

16:10 - 16:30

Isabel Wiemer

Formulations

EUROYoung 2025 Program

Wednesday, October 15

Registration		12:20 – 12:40
Opening		12:40 – 13:10
Session: Unce	rtain Optimization	13:10 – 14:50
13:10 – 13:30	Federica Donnini	Session Chair: Antonio Diglio
	On K-adaptability for two-stage stochastic programs	5
13:30 – 13:50	Hossein Babazadeh Power Swaps: A Coordination Mechanism for Operation of Jointly Owned Hydropowe Reservoirs	
13:50 – 14:10	Simon Stevens A Branch-and-Cut Approach for Decision-Dependent Robust Optimization Problems	
14:10 – 14:30	Xuan Truong Dinh Enhancing Multi-Period, Multi-Commodity, Multi-Modal Network Flow Optimization in the Mekong Delta	
Coffee Break		14:30 - 15:00
Plenary		15:00 – 16:00
		Session Chair: Marta Baldomero Naranjo
15:00 – 16:00	Martin Schmidt A Gentle and Incomplete Introduction to Bilevel Optimization	
Short Break		16:00 – 16:10
Session: Loca	tion	16:10 – 17:30

Enhancing Fairness in Emergency Medical Service: Single- and Bi-Objective Model

16:30 - 16:50 Felix Rauh

Dynamic Programming and Block-Cut Tree Decompositions for a Maximum Covering Location-Network Design Problem

16:50 – 17:10 Ricardo Gázquez

Incorporation of Regional Preferences in Facility Location: Insights into Efficiency and Satisfaction Trade-offs

17:10 - 17:30 Thomas Byrne

Conditional Facility Location Problems with Continuous Demand and a Rapid Transit Line

Session: Routing 17:30 – 18:30

Session Chair: Eduardo Pipicelli

17:30 - 17:50 Julien Darlay

Computing dual bounds of set-based models using column elimination in Hexaly

17:50 – 18:10 Chiara Maragò

Optimizing Cruise Ship Itineraries: A Sustainable Perspective

18:10 – 18:30 Vid Tomljenovic

Solving a Multi-Depot Multi-Vehicle Inventory Routing Problem using Column Generation and Branch-and-Price

Welcome Dinner 19:30 – 21:30

Pizzeria Diego Vitagliano

Thursday, October 16

Session: Macl	nine Learning I	08:30 - 09:30
08:30 - 08:50	Daan Otto Coherent Local Explanations for Mathematics	Session Chair: Sebastian Merte
08:50 - 09:10	Marica Magagnini Multiple Disperse (generalized) Linear Model	s
19:10 – 09:30	Sebastian Merten <i>Interpretable Surrogates for Optimization</i>	
Session: Macl	nine Learning II	09:30 - 10:30
9:30 - 09:50	Lorenzo Saccucci	Session Chair: Paula Segura Martíne
19:30 – 09:30	The Potential of Large Language Models in So Study	olving Optimization Problems: An Empirica
9:50 - 10:10	Ilaria Ciocci <i>Margin Optimal Regression Trees</i>	
10:10 - 10:30	Paula Segura Martínez New mathematical optimization models for clusters interpretability	
Coffee Break		10:30 - 11:00
Plenary		11:00 - 12:00
1:00 – 12:00	Maria Grazia Speranza Optimization in transportation and logistics	Session Chair: Andrea Mancus
Short Break		12:00 - 12:10
Session: Bilev	el Optimization	12:10 - 13:30
2:10 – 12:30	Session Chair: Francisco Temprano García Alberto Torrejon The Measure of Everything, a flexible modeling framework for combinatorial problems	
2:30 - 12:50	Riccardo Tomassini Equilibrium selection in oligopolistic market	
2:50 - 13:10	Martina Gherardi A bilevel revenue adequate generation expansion problem with hybrid complementarit condition	
3:10 - 13:30	Francisco Temprano García A fresh view on the Security Games Problem	
Lunch Break		13:30 - 14:30

Plenary 14:30 – 15:30

Session Chair: Adriano Masone

14:30 – 15:30 Dolores Romero Morales

Local Explainability in Machine Learning: A collective framework

City Tour	17:30 - 19:30
Meeting point: Castel dell'Ovo	

Social Dinner	20:30 - 22:30
La Bersagliera	

Friday, October 17

Session: Adva	nced Optimization Techniques for Complex Systems	08:30 - 09:30	
		n Chair: Bárbara Rodrigu	
08:30 – 08:50	Farzaneh Safari Inverse Cauchy problem in the framework of an RBF-based meshless technique at trigonometric basis functions		
8:50 - 09:10	Ties Schalij Structure-Aware Heuristic Improvement via Policy Iteration		
9:10 - 09:30	Bárbara Rodrigues Combined Scenario Reduction and Discretization for Time Series Data		
Session: Indus	strial Applications I	09:30 - 10:30	
		sion Chair: Christian Trude	
9:30 – 09:50	Nandan Kumar Singh Optimal Investment in Resiliency in Presence of Spot Market E Distribution Approach	Demand: A Generalize	
9:50 - 10:10	Vittoria Crotti OR and ML techniques supporting security service companies		
0:10 - 10:30	Christian Truden Service Network Design with Fleet and Emissions Management at Scale		
Coffee Break		10:30 - 11:00	
Plenary		11:00 – 12:00	
1:00 – 12:00	Session Maurizio Boccia Exact and ML-guided Matheuristic approaches for a Truck-and-L	on Chair: Alan Osorio Mo Drone delivery problem	
Short Break		12:00 - 12:10	
Session: Gam	e Theory and Combinatorial Optimization	12:10 - 13:30	
0.10 10.20		on Chair: Carmine Sorgen	
2:10 - 12:30	Alejandro Bernárdez Ferradás Dirichlet Values for Balanced Games		
2:30 - 12:50	Mariagrazia Cairo Bi-Objective Minimum Spanning Tree Problem: a comparison between a distributed and a parallel approach		
2:50 - 13:10	Alberto Boggio Tomasaz On the Construction of Resilient Samples for Binary Interdiction		
3:10 - 13:30	Carmine Sorgente		

Lunch Break		13:30 – 14:30
Panel Session		14:30 - 15:30
14:30 – 15:30	Panel Challenges and Decisions that Shape Academic Careers in C	Session Chair: Laura Davila Pen Operational Research
Session: Indus	trial Applications II	15:30 - 16:30
15:30 – 15:50	Sayeh Fooladi Mahani Optimizing electric carsharing systems for sustainable mobilit	Session Chair: Matteo Cosm
15:50 – 16:10	Paula Terán Viadero Exact and Heuristic Approaches for the 2D Cutting Stock Problem with variable-size stock	
16:10 – 16:30	Çiya Aydoğan Tail Assignment Problem with Hour-to-Cycle Ratio Constraints: A Branch and Pric Algorithm	
16:30 – 16:50	Matteo Cosmi The profitability-sustainability trade-off in complex chemical specific carbon footprint constraints	l value chains under product
Coffee Break		16:50 - 17:20
Session: Sche	duling Problems	17:20 – 19:00
17:20 – 17:40	Alex Barrales-Araneda A Heuristic Algorithm for Sequential Timetabling and Electric Transport	Session Chair: Martina Doneda
17:40 – 18:00	Roberto Maria Rosati Multi-Neighborhood Search for the AGV Scheduling Problem with Battery Constraints	
18:00 - 18:20	Miguel Chastre Joint Optimization for the Scheduled Joint Replenishment Problem	
18:20 – 18:40	Martina Doneda A data-driven tool for operating rooms advance scheduling	
Closing		18:40 – 19:00
Farewell Cock Hotel Nuvò	tail	20:00 – 22:00