

## Wednesday, 15 of February

9:00–10:00	Registration		
10:00–10:30	Opening session		
10:30–11:30	Bin Packing		
10:30–10:50	CT	Davide Croci	A Support Planes Beam Search Algorithm for the Pallet Loading Problem
10:50–11:10	CT	Riccardo Giusti	Logistics Capacity Planning with Carrier Selection - A Stochastic Bin Packing Methodology
11:10–11:30	CT	Chiara Turbian	Models and Methods for a 2D Bin Packing Problem in the Sheet Metal Industry
11:30–12:10	Disaster Management		
11:30–11:50	CT	Christian Truden	Allocating temporary blackout supply points within walkable distances
11:50–12:10	CT	Suhad Al-Natoor	Temporary Logistic Hubs Prepositioning for Preparedness and Response Disaster Operations
12:10–14:00	Lunch Break		
14:00–15:00	Interactions of Combinatorial Optimization and Machine Learning - 1		
14:00–14:20	CT	Simone Milanesi	The BeMi Stardust: a Structured Ensemble of Binarized Neural Networks
14:20–14:40	CT	Antonio Consolo	Randomized regression trees: a model variant and a decomposition training algorithm
14:40–15:00	CT	Francesco P. Saccomanno	A Reinforcement Learning approach to solve the bin packing problem
15:00–15:40	Traveling Salesperson Problem		
15:00–15:20	CT	Federico Michelotto	An Exact and Heuristic Approach for the Traveling Salesman Problem with Drone and Variable Drone Speed Selection
15:20–15:40	CT	Eleonora Vercesi	On the generation of Metric TSP instances with a large integrality gap by branch-and-cut
15:40–16:10	Coffee Break		
16:10–16:50	Decomposition Methods		
16:10–16:30	CT	Dario Palasgo	Algorithms for the Pickup and Delivery Problem with Time Windows and Last-in-First-out Loading
16:30–16:50	CT	Rafael Praxedes	A unified exact approach for a set of vehicle routing problems with simultaneous pickup and delivery
16:50–17:50	Manufacturing and Automated Warehouses		
16:50–17:10	CT	Katarzyna Gdowska	Automated Analysis of Shewart Charts in a High Throughput Manufacturing Using Machine Learning Models
17:10–17:30	CT	Dominik Zehetner	Towards Large Scale Collaborative Production Planning in Additive Manufacturing
17:30–17:50	CT	Veronica Mosca	An adaptive large neighborhood search for the order picking process: the case of a retail distribution company in Italy

# Thursday, 16 of February

8:40–10:00	Applications to Finance and Revenue Management	
8:40–9:00	CT	Emanuele Concas Dynamic Bundles Offer Management in an Airline Context
9:00–9:20	CT	Martina Luzzi Application of auctions mechanisms in restaurant business
9:20–9:40	CT	Davide Merolla A non-parametric model for constrained retail assortment optimization
9:40–10:00	CT	Claudio Gambella FICO Decision Optimizer – Generating causal predictive models
10:00–10:30	Coffee break	
10:30–11:30	PL	Paolo Boldi Univ. of Milan Centralities in graphs. The strange case of directedness & monotonicity
11:30–12:30	Scheduling	
11:30–11:50	CT	Emiliano Lancini Poly/Mono-chromatic Edge Coloring for Job Scheduling
11:50–12:10	CT	Adriano Masone Minimizing the sum of completion times in the AGV Scheduling Problem with battery constraints
12:10–12:30	CT	Andrea Mancuso An online optimization-based tool for surgery scheduling and re-scheduling
12:30–14:00	Lunch break	
14:00–14:30	ST	Caterina Tamburini Optit District Energy Production Management Optimisation: beyond the unit committment problem
14:30–15:00	ST	Valentina Morandi Multiprotexion Optimization problems arising in surveillance companies
15:00–15:40	Nonlinear Programming	
15:00–15:20	CT	Benedetto Manca The Ellipsoidal Separation Machine
15:20–15:40	CT	Christian Piermarini Computing Negative Curvature Directions for Large Scale Optimization: exploiting SYMMBK
15:40–16:10	Coffee break	
16:10–17:30	Energy	
16:10–16:30	CT	Ambrogio Maria Bernardelli A linear approximation for a stochastic optimal power flow problem based on wind energy sources
16:30–16:50	CT	Silvia Anna Cordieri Transactive energy trading using a Solar Organic Rankine Cycle
16:50–17:10	CT	Nathalie Frieß Simulation and Optimization of Renewable Energy Communities
17:10–17:30	CT	Giovanni Micheli Operational Equilibrium of Electricity and Natural Gas Systems with Bi-Directional Energy Flows
17:30–17:45	AIROyoung meeting	
18:30–20:15	Leonardo3 Exhibition	
21:00–	Social Dinner at “Casa Lodi” restaurant	

CT: Contributed Talk, PL: Plenary Talk, ST: Sponsor Talk.

## Friday, 17 of February

9:00–10:00	<b>Public and Multimodal Transportation</b>		
9:00–9:20	CT	Claudio Tomasi	Evaluating Public Transport by Multimodal Schedule-based Routing
9:20–9:40	CT	Maria Truvalo	A MILP model for multimodal logistics cooperation
9:40–10:00	CT	Marta L. Tessoro	On the Fragility of a Train Timetable
10:00–10:30	<b>Coffee Break</b>		
10:30–11:30	PL	Claudia D'Ambrosio École Polytechnique (Paris)	Mathematical optimization to guarantee safety in Urban Air Mobility
11:30–12:30	<b>Multiobjective Optimization and Bilevel Programming</b>		
11:30–11:50	CT	Valentina Bonomi	Fairness in Home Healthcare: a lexicographic approach to investigate the impact of conflicting stakeholder's goals
11:50–12:10	CT	Matteo Cosmi	Mathematical programming for managing the profitability-sustainability trade-off in complex chemical value chains
12:10–12:30	CT	Martina Cerulli	A bilevel pricing and routing problem
12:30–14:00	<b>Lunch break</b>		
14:00–15:00	<b>Interactions of Combinatorial Optimization and Machine Learning - 2</b>		
14:00–14:20	CT	Léo Baty	Winning Approach for the EURO-NeurIPS Dynamic Vehicle Routing Competition
14:20–14:40	CT	Nuria Gómez Vargas	Explainability in predict-and-optimize
14:40–15:00	CT	Lorenzo Bonasera	Optimal Shapelets Tree for Time Series Interpretable Classification
15:00–15:30	ST	Andrea Mosconi Target Reply	Ship Certifications: Operational search with Genetic Algorithms
15:30–16:00	ST	Nicholas Draghetti LAIFE Reply	From data to smart optimization science: a real case study in the healthcare sector
16:00–16:40	<b>Software</b>		
16:00–16:20	CT	Saverio Basso	PathWise: an open-source library for the Resource Constrained Shortest Path
16:20–16:40	CT	Francesca Da Ros	JuLeS: A Julia Framework for White-box Metaheuristic Design
16:40–17:20	<b>Electric Vehicles</b>		
16:40–17:00	CT	Francesco Taverna	Waste collection with EVs: a MILP formulation
17:00–17:20	CT	Edoardo Scalzo	A GRASP for a Green Location Problem
17:20–17:30	<b>Closing session</b>		

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