

AUDITORIUM A FRIDAY

09:00 AM - 11:00 AM Transportation I Chair: Martina Fischetti

09:00 AM	Maurizio Bruglieri – Optimizing a real-time carpooling service
09:20 AM	Giusy Macrina – Bundles generation and pricing in crowdshipping
09:40 AM	Amparo Mármol – A pick-up rule for sharing transportation costs in itinerant events
10:00 AM	Siniša Vilke – Decision support system in urban traffic management
10:20 AM	Martina Fischetti – How the European Union uses Operations Research for transport analyses
	11:30 AM - 01:00 PM Transportation II Chair: Cristiano Cervellera
11:30 AM	Francesca Vocaturo – Graph Partitioning in Public Transport
11:50 AM	Maksim Lalić – Assisting Passengers on Rerouted Train Service Using Vehicle Sharing System
12:10 PM	Gabriella Stecco – Scheduling and Routing of AGVs: solving industrial applications using Constraint Programming
12:30 PM	$\label{lem:condition} Cristiano\ Cervellera-Receding-horizon\ dynamic\ optimization\ of\ port-city\ traffic\ interactions\ over\ shared\ urban\ infrastructure$
	02:30 PM - 03:30 PM Plenary Lecture Chair: Filippo Visintin
02:30 PM	Maria Paola Scaparra – Leveraging OR to build more sustainable, resilient, and equitable communities in Southeast Asia
	03:40 PM - 05:00 PM Transportation III Chair: Jean-Paul M. Arnaout
03:40 PM	Antonio Napoletano – Vehicle routing at work: a real-world implementation and case studies
04:00 PM	Xuan Ren – The Truck and Drone Routing with Delivery and Optional Pickups
04:20 PM	Jean-Paul M. Arnaout – A Preliminary Assessment of the Traffic Operations of Connected and/or Autonomous Vehicles
	05.00 DM 05.20 DM

05:00 PM - 05:30 PM Closing Session



AUDITORIUM B FRIDAY

$09{:}00~\mathrm{AM}-11{:}00~\mathrm{AM}$ Continuous and Multiobjective optimization II

Chair: Annarita De Maio

09:00 AM	Milica Jovanović-Vujatović – Econometrics analysis of multidimensional urban poverty determinants
09:20 AM	Bo Peng – Conic formulation of QPCCs applied to truly sparse QPs
09:40 AM	Emanuele Pizzari – Bilevel Formulations for Municipal Waste Management
10:00 AM	Marco Premoli – Comparing digital and quantum annealing heuristics: the cardinality constrained quadratic knapsack case
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	11:30 AM - 01:00 PM
	Continuous and Multiobjective optimization III Chair: Brilli Andrea
11:30 AM	Serena Fugaro – Multi-Objective Covering Location Problems with advanced connectivity features and zonal requirements: Exact and Matheuristic approaches
11:50 AM	Aly-Joy Ulusoy – Multi-objective design-for-control of water networks with global bounds
12:10 PM	Andrea Brilli – An interior point method for nonlinear constrained derivative-free Optimizatiom
	03:40 PM - 05:00 PM Applications of OR VI Chair: Roberto Musmanno
03:40 PM	Stanislav Fedorov – Machine Learning heuristic for Variable Cost and Size Bin Packing Problem with Stochastic Items
04:00 PM	Mikele Gajda – Last-mile delivery with vans and autonomous robots: an analysis on the impact of the return policy
04:20 PM	Roberto Musmanno – Selection of Cultural Sites via Optimization



ROOM 001 FRIDAY

09:00 AM - 11:00 AM Applications of OR V Chair: Roberto Roberti

09:00 AM	Mirko Mucciarini – Demand Forecasting Methods: A Case Study in the Italian Processed Meat Industry
09:20 AM	Roberto Ronco – A new efficient heuristic for the Automatic Scene Detection Problem
09:40 AM	Maria Trnovska – A unified approach to data envelopment analysis models
10:00 AM	Lionel Amodeo – Capacitated Disassembly Lot-Sizing Problem with Disposal Decisions for Multiple Product Types with Parts Commonality
10:20 AM	Roberto Roberti – Anticipatory Time Window Assignment for Next-Day Service Routing
	11:30 AM - 01:00 PM Supply Chains and Inventory I Chair: Giuseppe Stecca
11:30 AM	Matteo Cosmi – Mathematical programming models for managing the profitability-sustainability trade-off in complex chemical value chains
11:50 AM	Giorgio Romanin Jacur – Generalized Model of a Production System with Fixed Supplies and Deliveries
12:10 PM	Giuseppe Stecca – A model and a solution approach for optimal green investment in a two stage supply chain
12:30 PM	EP Mezatio – Design forward and reverse closed-loop supply chain to improve economic and environmental performances
	03:40 PM - 05:00 PM
	Supply Chains and Inventory II Chair: Tatiana Grimard
03:40 PM	Saba Siadati – A Two-echelon Time-dependent Green Location-Routing Problem
04:00 PM	Tatiana Grimard – Supply chain design and cost allocation in a collaborative three-echelon supply network: A literature review



ROOM 002 FRIDAY

09:00 AM - 11:00 AM Applications: Health Care Chair: Valentina Bonomi

09:00 AM	Roberto Bargetto – A branch-and-price-and-cut algorithm for operating room scheduling under human resource constraints
$09:20~\mathrm{AM}$	Mirko Cavecchia – A Facility Location Problem to support Helicopter Emergency Medical Services
09:40 AM	Alessandro Gobbi – Nurse Routing Problem with Incompatible Services and Mini-mum Demand: An ALNS+Kernel Search solution approach
10:00 AM	Valentina Bonomi – A Two-Stage Stochastic approach for the Integrated Multi-Period Combinatorial Auction and Nurse Routing Problem
	11:30 AM - 01:00 PM Best AIROYoung Dissertation 2022 Chair: Alice Raffaele
11:30 AM	Anna Livia Croella – Real-time Train Scheduling: Reactive and Proactive Algorithms for Safe and Reliable Railway Networks
11:50 AM	Daniel Faccini – Models and Approximations for Optimization Problems under Uncertainty with Applications to Support Vector Machine and Revenue Management
12:10 PM	Serena Fugaro – Optimizing and Reoptimizing: Tackling Static and Dynamic Combinatorial Problems
12:30 PM	Matteo Lapucci – Theory and Algorithms for Sparsity Constrained Optimization Problems
	03:40 PM - 05:00 PM Discrete Optimization IV Chair: Federico Della Croce
03:40 PM	Martina Cerulli – The collapsed k-core problem
04:00 PM	Federico Della Croce – Operating rooms scheduling with a shared resource: a red-blue knapsack modeling approach



ROOM 003 FRIDAY

$09{:}00~\mathrm{AM}-11{:}00~\mathrm{AM}$ OML, Optimization for machine learning II

Chair: Vassilis Apidopoulos

09:00 AM	Lionel Tondji – Faster Randomized Block Sparse Kaczmarz by Averaging
09:20 AM	Cheik Traoré – Asynchronous parallel block-coordinate forward-backward algorithm
09:40 AM	Cristian Vega – Iterative regularization for convex regularizers with activation onto a priori information
10:00 AM	Mouna Gharbi – GPU-based Implementations of MM Algorithms. Application to Spectroscopy Signal Restoration
10:20 AM	Vassilis Apidopoulos – Iterative regularization in classification via hinge loss diagonal methods
	11:30 AM - 01:00 PM MLO4EMD, Machine learning-based optimization for extreme metamaterials design Chair: Giorgio Gnecco
11:30 AM	Amir Darabi – Designing a broadband GRIN lens through a deep learning based data-driven method
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11:50 AM	Danilo Macciò – Voronoi recursive binary trees for the optimization of nonlinear functionals
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