

AUDITORIUM A THURSDAY

09:00 AM - 11:00 AM Optimization on Graphs II Chair: Victor Hugo Vidigal Corrêa

09:00 AM	Diego Maria Pinto – Optimal Network Design for Waste Management in Regional Districts: the PIPER Project
09:20 AM	Cristina Requejo – A preliminary approach to the short-length time-slotted routing topologies problem
09:40 AM	David Rey – MaaS network pricing with non-cooperative transportation service providers
10:00 AM	Davide Donato Russo – Path planning for autonomous vehicles in smart wherehouses
10:20 AM	Victor Hugo Vidigal Corrêa – An Iterated Local Search Algorithm for a Multi-period Orienteering Problem Arising in Car Patrolling
	11:30 AM - 01:00 PM PRPI, Path and routing problems in industry Chair: Marco Locatelli
11:30 AM	Stefano Ardizzoni – Shortest path with acceleration constraints: Complexity and approximation algorithms
11:50 AM	Francesco Gallesi – A Branch-and-Regret Algorithm for the Same-Day Delivery Problem
12:10 PM	Tobia Marcucci – Shortest paths in graphs of convex sets, and their applications in control and robotics
12:30 PM	Irene Saccani – Multi-agent Path Finding on Strongly Connected Digraphs
	02:30 PM - 03:30 PM Plenary Lecture Chair: Fabio Tardella
02:30 PM	Dick Den Hertog – Analytics for a Better World
	03:40 PM - 05:00 PM Optimization on Graphs III Chair: Carla De Francesco
03:40 PM	Optimization on Graphs III
03:40 PM 04:00 PM	Optimization on Graphs III Chair: Carla De Francesco Roberto Zanotti – A matheuristic approach for a Vehicle Routing Problem with Parcel Lockers and Green
	Optimization on Graphs III Chair: Carla De Francesco Roberto Zanotti – A matheuristic approach for a Vehicle Routing Problem with Parcel Lockers and Green Customers
04:00 PM	Optimization on Graphs III Chair: Carla De Francesco Roberto Zanotti – A matheuristic approach for a Vehicle Routing Problem with Parcel Lockers and Green Customers Orlando Marco Belcore – C-Weibit discrete choice model: a path based approach

05:30 PM - 07:00 PM AIRO Meeting



AUDITORIUM B THURSDAY

09:00 AM - 11:00 AM Continuous and Multiobjective optimization I Chair: Sara Mattia

09:00 AM	Andrea Cristofari – A decomposition method for lasso problems with zero-sum constraint
09:20 AM	Terézia Fulová – A conic optimization approach for solving Procrustes problems with quadratic constraints
09:40 AM	$Rosario\ Messana-Enhancing\ online\ combinatorial\ optimization\ with\ linear\ profits\ using\ mathematical\ programming$
10:00 AM	Maria Chiara Nasso – Lipschitz global optimization using space-filling curves
10:20 AM	Sara Mattia – Optimistic vs Pessimistic Policy in Bilevel Programming
	11:30 AM - 01:00 PM Applications: Sustainability, Health Care Chair: Gabriele Zangara
11:30 AM	Caterina Tamburini – CHP Systems Optimization in Presence of Time Binding Constraints
11:50 AM	Tine Meersman – Multi-objective optimisation for constructing cyclic appointment schedules for elective and urgent patients
12:10 PM	Andrea Mancuso – Optimization for surgery department management: an application to a hospital in Naples
12:30 PM	Gabriele Zangara – A flexible job shop scheduling model for Sustainable Manufacturing
	03:40 PM - 05:00 PM Sustainability Chair: Silvia Anna Cordieri
03:40 PM	Ornella Pisacane – The Effect of Low Emission Zones on the Routing of Electric and Fossil-Fuel Vehicles
04:00 PM	Matteo Pozzi – Integrated planning of multi-energy systems (PlaMES): a comprehensive modelling framework and decision support tool
04:20 PM	Antonio Punzo – Transmission expansion planning for future European energy grid
04:40 PM	Silvia Anna Cordieri – A decomposition approach for the Central Energy System planning



ROOM 001 THURSDAY

09:00 AM - 11:00 AM Stochastic Optimization Chair: Claudia Archetti

$09:00~\mathrm{AM}$	Javier Faulin – Multi-Stage Stochastic Optimization for a Biorefinery Supply Chain in Spain
09:20 AM	$\label{lem:control_equal_problem} Antonio \ Frangioni - Stochastic \ Dual \ Dynamic \ Programming \ and \ Lagrangian \ decomposition \ for \ seasonal \ storage \ valuation \ in \ SMS++$
09:40 AM	Maxime Grangereau – Robust Optimization for Smart Charging of Electrical Vehicles
10:00 AM	Stefano Smriglio – Robust optimization models in call centers workforce management
10:20 AM	Claudia Archetti – Reinforcement Learning Approaches for the Orienteering Problem with Stochastic and Dynamic Release Dates
	11:30 AM - 01:00 PM Variational Inequalities and equilibrium problems Chair: Ricardo Almeida
11:30 AM	M. Angeles Caraballo – Environmental damage reduction: when countries face conflicting objectives
11:50 AM	Valerio Dose – Active Network and Price of Anarchy in Multi-Commodity Routing Games with Variable Demands
12:10 PM	Marcello Sanguineti – Detection of the Origin of Movement: Graph-Theoretical Model and Data Processing
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	03:40 PM - 05:00 PM Stochastics, Equilibria, Applications Chair: Rosario Scatamacchia
03:40 PM	Emel Savku – A constrained nonzero-sum game application: Bancassurance
04:00 PM	Milan Hladík – Complexity Issues in Interval Linear Programming
04:20 PM	Nikola Obrenović – The Crop Plant Scheduling Problem
04:40 PM	Rosario Scatamacchia – ZERO Regrets Algorithm: Optimizing over Pure Nash Equilibria via Integer Programming



ROOM 002 THURSDAY

09:00 AM - 11:00 AM Discrete Optimization I Chair: Alessandro Agnetis

09:00 AM	Jocelin Cailloux – Tabu search for industrial job clustering and scheduling problem
09:20 AM	Simona Mancini – Combined fleet sizing, facility location, and vehicle scheduling for electric public transport
09:40 AM	Adriano Masone – Exact and heuristic approaches for a parallel machine scheduling problem with maintenance activities
10:00 AM	Lorenzo Moreschini – A New Kernel Search approach for the Knapsack Problem with Forfeits
10:20 AM	Alessandro Agnetis – New results for sequencing two classes of jobs on a two-machine flow shop with a no-idle constraint
	11:30 AM - 01:00 PM
	Discrete Optimization II
	Chair: Alice Raffaele
11:30 AM	Elena Rener – On the solution of optimal timing problems for single machine rescheduling problems with new jobs arrival
11:50 AM	Tommaso Schettini – A Heuristic Algorithm for the Capacitated Demand-Driven Metro Timetabling Problem
12:10 PM	Domenico Serra – New Approaches for the kidney exchange problem
12:30 PM	Alice Raffaele – On Vertex Enumeration and Hypergraph Dualization: relevance in combinatorial optimization and a new decomposition approach
	03:40 PM - 05:00 PM
	Discrete Optimization III
	Chair: Alessio Sortino
03:40 PM	Yasmine Alaouchiche – Throughput evaluation of large series-parallel production lines: a fast and efficient approach
04:00 PM	Carmine Sorgente – Cluster Deletion Problem
04:20 PM	Mauro Gaggero – A MILP Formulation and a Metaheuristic Approach for the Scheduling of Drone Landings and Payload Changes on an Automatic Platform
04:40 PM	Alessio Sortino – Scheduling Airport Personnel by Exact Optimization Models



ROOM 003 THURSDAY

09:00 AM - 11:00 AM

NOML, Nonlinear Optimization and Machine Learning II Chair: Matteo Lapucci

09:00 AM	Antonio M. Sudoso – Global Optimization for Cardinality-constrained Minimum Sum-of-Squares Clustering via Semidefinite Programming
09:20 AM	Federica Porta – Proximal stochastic gradient methods with variable learning rate and dynamical variance reduction
09:40 AM	Manlio Gaudioso – On the stepsize choice in subgradient methods.
10:00 AM	Matteo Lapucci – Inexact Penalty Decomposition in General Settings
	11:30 AM - 01:00 PM NOML, Nonlinear Optimization and Machine Learning III Chair: Marco Sciandrone
11:30 AM	Cecilia Salvatore – Model Extraction based on Counterfactual Explanations
11:50 AM	Enrico Civitelli – A Robust Initialization of Residual Blocks for Effective ResNet Training without Batch Normalization
12:10 PM	Sara Venturini – Semi-supervised learning in multilayer hypergraphs
12:30 PM	Leonardo Galli – Robustness and Generalization in Training Deep Neural Networks
	03:40 PM - 05:00 PM OML, Optimization for machine learning I Chair: Cesare Molinari
03:40 PM	Enis Chenchene – Distributed extension of the Douglas-Rachford method with applications.
04:00 PM	Jonathan Chirinos Rodriguez – Learning Resolvent Operators
04:20 PM	Emanuele Naldi – Graph extension of the Douglas-Rachford method with minimal lifting