

05:50 PM

06:10 PM

AUDITORIUM A WEDNESDAY

09:00 AM - 11:00 AM

OPTSM, Optimization in Public Transport and Shared Mobility III Chair: Marcella Samà

09:00 AM	Lorenzo Castelli – A distributed market mechanism for an efficient and equitable resource assignment
09:20 AM	Valentina Morandi – Optimization models for fair horizontal collaboration in demand-responsive transportation
09:40 AM	Marta Leonina Tessitore – Identifying Railway Timetable Fragility
10:00 AM	${\it Marcella\ Sam\`a-Risk\ evaluation\ considering\ uncertain\ dwell\ times\ of\ real-time\ Railway\ Traffic\ Management\ solutions}$
	11:30 AM - 01:00 PM OPTSM, Optimization in Public Transport and Shared Mobility IV Chair: Joaquin Rodriguez
11:30 AM	Federico Naldini – Practical deployment of real-time railway traffic management algorithms: impact of process meta-parameters
11:50 AM	Giorgio Sartor – Large-scale real-time dispatching in the Greater Oslo area
12:10 PM	Xiajie Yi – Coordinated perturbation management in railway traffic
12:30 PM	Joaquin Rodriguez – Train-based instance reformulation in real-time Railway Traffic Management
	02:30 PM - 03:30 PM Plenary Lecture Chair: Fabio Schoen
02:30 PM	Dimitris Bertsimas – HAIM: Holistic AI for Medicine
	03:40 PM - 05:00 PM OPTSM, Optimization in Public Transport and Shared Mobility V Chair: Valentina Cacchiani
03:40 PM	Matteo Petris – Extracting series-parallel subnetworks in rail infrastructures - benefits and limits
04:00 PM	Jacob Trepat Borecka – Computational Evaluation of Logic-based Benders Cuts for Railway Scheduling
04:20 PM	Benedetta Pratelli – A sequential approach for large scale electric vehicle scheduling problems
04:40 PM	Valentina Cacchiani – Integrated timetabling and eletric vehicle scheduling in public transport
	05:30 PM - 07:00 PM Optimization on Graphs I Chair: Cristina Ondei
05:30 PM	Carmine Cerrone – A multi period VRP for evaluating distribution strategies

Maria Truvolo – Selection of pickup-delivery points in urban areas to reduce emission costs

Cristina Ondei – Exact algorithms for the electric travelling salesman problem



AUDITORIUM B WEDNESDAY

09:00 AM - 11:00 AM Global Optimization Chair: Fabio Schoen

09:00 AM	Filippo Pecci – A global optimization framework for resilient water distribution networks
09:20 AM	Immanuel Bomze – Fast Cluster Detection in Networks by First Order Optimization
09:40 AM	Marco Locatelli – Sharp and fast bounds for the Celis-Dennis-Tapia problem
10:00 AM	Leo Liberti – Random projections for semidefinite programming
	11:30 AM - 01:00 PM Teaching Session Chair: Daniela Ambrosino
11:30 AM	Roberto Musmanno – Introduction to Logistics Systems Management with Microsoft Excel and Python Examples
11:45 AM	Eugenia Taranto – Operations Research at high school: its impact on modelling skills and beyond
12:00 PM	Claudio Sterle – OPS4Math project: teaching optimization and problem solving at Secondary Schools
12:15 PM	Alessandro Gobbi – Teaching OR before University: the ROAR Experience (Part II)
12:30 PM	Daniela Ambrosino – Projects for getting a taste of problem solving and mathematics in high school
	03:40 PM - 05:00 PM Industrial Startup Session I Chair: Marco Sciandrone
03:40 PM	Francesco Sambo – Verizon Connect Italy - Industrial presentation
04:00 PM	Federica Picca Nicolino – Intuendi - Industrial presentation
04:20 PM	Jacopo Corno – Deix - Industrial presentation
04:40 PM	Veronica Asta – OPTIMeasy - Industrial presentation
	05:30 PM - 07:00 PM Industrial Startup Session II Chair: Paola Cappanera
05:30 PM	Duccio Grandi – M.A.I.O.R. and elite-level sporting events
05:50 PM	Matteo Pozzi – OPTIT - Industrial presentation
06:10 PM	Stefano Cappugi – FirLab - Industrial presentation



ROOM 001 WEDNESDAY

09:00 AM - 11:00 AM

$\operatorname{EQVA},$ Equilibria, variational models and applications

Chair: Mauro Passacantando

09:00 AM	Francesco Caruso – A general method for selecting subgame perfect Nash equilibria in two-player Stackelberg games
$09{:}20~\mathrm{AM}$	$Giandomenico\ Mastroeni-A\ decomposition\ method\ for\ a\ linear\ problem\ with\ complementarity\ constraints$
09:40 AM	$\label{lem:covid-norm} Annamaria\ Barbagallo-A\ general\ Cournot-Nash\ equilibrium\ principle\ and\ applications\ to\ the\ COVID-19\ pandemic$
$10{:}00~\mathrm{AM}$	Valerio Giuseppe Sasso – Nonsmooth Hierarchical Multi Portfolio Selection
10:20 AM	Mauro Passacantando – A finite convergence algorithm for solving network games with strategic complements and bounded strategies
	11:30 AM - 01:00 PM
	RAVIEP, Recent Advances in Variational Inequalities and Equilibrium Problems I Chair: Patrizia Daniele
11:30 AM	Maria Bernadette Donato – Variational inequalities, maximal elements and economic equilibrium problems
11:50 AM	Daniele Sciacca – Disaster Management with UAVs and 5G technology: a Three-Stage Stochastic network-based Optimization Model
12:10 PM	Sergio Grammatico – Generalised Nash equilibrium seeking under partial information
12:30 PM	Jacqueline Morgan – Viscosity solutions in multi-leader-common-follower games
	03:40 PM - 05:00 PM RAVIEP, Recent Advances in Variational Inequalities and Equilibrium Problems II Chair: Laura Scrimali
03:40 PM	Sofia Giuffrè – On the equivalence between constrained variational problems
04:00 PM	Domenico Scopelliti – Quasi-variational problems with non-self map on Banach space
$04{:}20~\mathrm{PM}$	Fabio Raciti – A multiclass network international migration model under shared regulations
04:40 PM	Georgia Fargetta – Time-Dependent Generalized Nash Equilibria in Social Media Platforms
	05:30 PM - 07:00 PM Applications of OR III Chair: Josep Freixas
05:30 PM	Jelena J. Stanković – Urban Poverty and Material Deprivation: A Spatial Efficiency Assessment
$05:50~\mathrm{PM}$	Gabi Hanukov – Postponing Complementary Services
06:10 PM	Joep Freixas – On the search of an optimal tie-breaking system for sport competitions with a large number of participants



ROOM 002 WEDNESDAY

09:00 AM - 11:00 AM KNAP, Knapsack Problems Chair: Laura Galli

09:00 AM	Iskander Aliev – Sparse integer points in knapsack polyhedra and beyond
09:20 AM	Adam Letchford – Cutting Planes for the Multiple Knapsack Assignment Problem
09:40 AM	Alberto Locatelli – Knapsack problems - An Overview of Recent Advances
10:00 AM	Ulrich Pferschy – On a knapsack game
10:20 AM	Laura Galli – Bi-dimensional Assignment in 5G Periodic Scheduling
	11:30 AM - 01:00 PM Finance Chair: Ana Garcia-Bernabeu
11:30 AM	$A dolfo\ Hilario-Caballero-A\ preference\ directions-based\ approach\ to\ integrate\ sustainability\ in\ portfolio\ selection$
11:50 AM	Eduardo Pipicelli – A mathematical model to locate Services of General Economic Interest
12:10 PM	Ana Garcia-Bernabeu – Approaches to ESG - Integration in Portfolio Optimization using MOEAs
	03:40 PM - 05:00 PM Applications Chair: Sara Ceschia
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04:00 PM	Chiara Turbian – A Two-Dimensional Bin Packing Problem with Precedence Constraints in the Sheet Metal Industry
04:20 PM	Sara Ceschia – Educational Timetabling: Problems, Benchmarks, and State-of-the-Art Results
	05:30 PM - 07:00 PM Applications of OR IV Chair: Nicolas Zufferey
05:30 PM	Fausto Errico – The fragility-constrained vehicle routing problem with time windows
$05:50~\mathrm{PM}$	Veronica Asta – Last mile and first mile trucks optimization
06:10 PM	Nicolas Zufferey – Reducing the supply-chain nervosity thanks to flexible planning



ROOM 003 WEDNESDAY

09:00 AM - 11:00 AM

NODAI, Numerical optimization for data analysis and imaging I

Chair: Simone Rebegoldi

09:00 AM	Elena Morotti – A new converging approach for learnt optimization with applications to imaging
$09{:}20~\mathrm{AM}$	Margherita Porcelli – A spectral PALM algorithm for Dictionary Learning
09:40 AM	Monica Pragliola – Automatic parameter selection for the TGV regularizer in image restoration under Poisson noise
10:00 AM	Cesare Molinari – Iterative regularization for convex regularizers
10:20 AM	$Simone\ Rebegoldi-Stochastic\ trust-region\ methods\ with\ subsampling\ for\ finite-sum\ minimization\ problems$
	11:30 AM - 01:00 PM NODAI, Numerical optimization for data analysis and imaging II Chair: Benedetta Morini
11:30 AM	Ambra Catozzi – Bacterial Colonies Segmentation via Variational Approaches
11:50 AM	Francesco Colibazzi – Learning regularized Gauss-Newton methods
12:10 PM	$\label{thm:control} \mbox{Giorgia Franchini} - A line search based proximal stochastic gradient algorithm with dynamical variance reduction for finite-sum optimization problems$
12:30 PM	Marta Lazzaretti – Iterative regularisation and modular-proximal algorithms in $L^{p(\cdot)}$ spaces for imaging problems
	03:40 PM - 05:00 PM Machine Learning I Chair: Annabella Astorino
03:40 PM	Michele Barbato – Simultaneous Feature Selection and Outlier Detection: New MILP Formulation and an Experimental Study
04:00 PM	Paula Brito – Multivariate Discriminant Analysis of Distributional Data
04:20 PM	Alberto Ceselli – Mathematical Programming and Machine Learning for a Task Allocation Game
04:40 PM	Annabella Astorino – Spherical and Polyhedral separation approaches for Multiple Instance Learning
	05:30 PM - 07:00 PM NOML, Nonlinear Optimization and Machine Learning I Chair: Matteo Lapucci
05:30 PM	Holger Rauhut – Implicit bias of gradient descent for learning linear neural networks
05:50 PM	Tommaso Aldinucci – Contextual Decision Trees
06:10 PM	
00:10 1 111	Behzad Pirouz – A Multi-Objective Programming Problem for Sparse Optimization with Application in SVM Feature Selection