ODS 2022
INTERNATIONAL CONFERENCE ON OPTIMIZATION AND DECISION SCIENCE
FIRENZE (ITALY) August 30th - September 2nd - 2022

01:30 PM - 02:00 PM
Opening Session

02:00 PM - 04:00 PM
OPTSM, Optimization in Public Transport and Shared Mobility I
Chair: Andrea D'Ariano

02:10 PM	Tommaso Bosi – A MILP Model for the Wagon Shunt-in Shunt-out Problem in Rail Freight Transport
02:30 PM	Federico Bigi – A MILP Model for the Wagon Shunt-in Problem in Multimodal Rail Freight Transport
02:50 PM	Anna Livia Croella – Dynamic Discretization Discovery applied to train traffic re-scheduling
03:10 PM	Pierre Hosteins – Decomposition methods for an integrated rail-rail transshipment yard problem
03:30 PM	Bianca Pascariu – Improving train punctuality by optimized train route selection in decision support systems

04:30 PM - 06:00 PM
OPTSM, Optimization in Public Transport and Shared Mobility II
Chair: Luigi De Giovanni

04:30 PM	Majid Soolaki – New mathematical model for extended arrival management capabilities
04:50 PM	David Garcia-Heredia – Metaheuristic algorithm for the Air Traffic Flow Management problem
05:10 PM	Guglielmo Lulli – Solving the European Air Traffic Flow Management Problem
05:30 PM	Luigi De Giovanni – Data-driven kernel search for trajectory based air traffic flow management

02:00 PM - 04:00 PM
MUOS, Multicriteria Optimization for sustainability
Chair: Marianna De Santis

02:10 PM	Lavinia Amorosi – A criterion space search algorithm for bi-objective mixed integer linear programs
02:30 PM	Daniele Patria – Using Dual Bounds for Multiobjective Mixed Integer Quadratic Programming
02:50 PM	Justo Puerto – The biobjective minimum-cost Perfect Matching and Chinese Postman Problems
03:10 PM	Marianna De Santis – Designing sustainable diet plans by solving a tri-objective 0-1 linear problem

04:30 PM - 06:00 PM
AMUO, Advances in Multiobjective Optimization
Chair: Pierluigi Mansueto

04:30 PM	Marco Boresta – Multi-objective simulation-based optimization using a machine learning-based mathematical programming model
04:50 PM	Giampaolo Liuzzi – A derivative-free approach to mixed integer constrained multiobjective nonsmooth optimization
05:10 PM	Gabriele Eichfelder – A new approach to solve multi-objective mixed-integer convex optimization problems
05:30 PM	Pierluigi Mansueto – A Quasi-Newton Approach for Large Scale Multi-Objective Optimization

02:00 PM - 04:00 PM
OUUTA, Optimization under Uncertainty: Theory and Applications I
Chair: Daniele Manerba

02:10 PM   Nema Abu Jomaa – Optimal ordering under a low-quality substitute in case of shortage and stochastic lead time

02:30 PM   Demetrio Laganà – Pickup and delivery requests through a multi-company e-commerce platform

02:50 PM   Daniel Faccini – Bounds for Multistage Mixed-Integer Distributionally Robust Optimization

03:10 PM   Giovanna Miglionico – A Robust Optimization Approach for Designing Renewable Energy Charging Stations

03:30 PM   Daniele Manerba – Stochastic Programs with extreme behaviors-focused second stages: a Deterministic Equivalent Formulation

04:30 PM - 06:00 PM
OUUTA, Optimization under Uncertainty: Theory and Applications II
Chair: Patrizia Beraldi

04:30 PM   Andrea Spinelli – A Robust Optimization Model for Nonlinear Support Vector Machine

04:50 PM   Edoardo Fadda – Robust Approaches for a Two-Stage Assembly-to-Order Problem.

05:10 PM   Patrizia Beraldi – Dynamic Pricing in the Electricity Retail Market: A Stochastic Bi-Level Approach

02:00 PM - 04:00 PM
HCM, Health Care Management I
Chair: Giuliana Carello

02:10 PM	Maddalena Nonato – The value of exploiting information in Logic-Based Benders Decomposition for chronic outpatients scheduling by Answer Set Programming
02:30 PM	Christine Di Martinelly – An approach to healthcare services decision-making using fuzzy ELECTRE III. An outpatient chemotherapy service application.
02:50 PM	Martina Doneda – A framework for at-home blood collection considering donor preferences
03:10 PM	Giuliana Carello – Patient Appointment Scheduling for Chemotherapy treatments

04:30 PM - 06:00 PM
HCM, Health Care Management II
Chair: Elena Tanfani

04:30 PM	Marco Roma – Mid term scheduling of medical staff at a hospital network by Answer Set Programming: a case study
04:50 PM	Christian Piermarini – The Ambulance Diversion phenomenon in an Emergency Department network: a case study

02:00 PM - 04:00 PM
Applications of OR I
Chair: Carlo Filippi

02:10 PM   Imen Chaabouni – Evaluation of economic impacts for a demand response program within a sawmill

02:30 PM   Maurizio Boccia – A Branch and Cut algorithm for the Flying Sidekick Traveling Salesman Problem

02:50 PM   Teresa Albini – Real-time optimization for a Digital Twin of a robotic cell with human operator

03:10 PM   Riccardo Giusti – A time-space multi-network modelling approach for the Location-Transshipment Problem in Synchromodal Logistics

03:30 PM   Carlo Filippi – On crowd-shipping using public transport: MILP model and empirical evaluation

04:30 PM - 06:00 PM
Applications of OR II
Chair: Petra Grošelj

04:30 PM   Gianfranco Guastaroba – Designing optimal paths in large crowded events

04:50 PM   Martina Luzzi – An auction mechanism in restaurant business

05:10 PM   Veronica Mosca – Optimising the order picking process: CONAD case study

05:30 PM   Petra Grošelj – Decision makers weights of importance based on the projection measure in DEMATEL