WARP 5
22-23 MAY 2025
VIENNA, AUSTRIA

Wednesday Welcome Party 17.30

Thursday 22.05.2025

08:45-10:30 Opening and session 1. Chairs: Karl Doerner and Sanne Wøhlk	
Sanne Wøhlk	Why arc routing is interesting
Alexander Ingemann Lindhardt	Solving the CARP using Logic-Based Benders Decomposition
Rafael Martinelli	The Capacitated Arc Routing Problem with Zigzag Options

10.30-11.00 coffee break

11.00-12.30 Session 2. Chair: José Belenguer	
Teresa Corberán	The Periodic drone Arc Routing Problem with Irregular Services
Islam Altin	Drone-Based Surveillance System for Campus Security
Raquel Bernardino	Inspecting Electric Lines with Drones

12.30-14.00 Lunch

14.00-15.30 Session 3. Chair: Elena Fernández	
Demetrio Laganá	The Periodic Capacitated Arc Routing Problem with Irregular Services
Juan Sebastian Riveros Perez	Solving the Mixed Capacitated Arc Routing Problem with Intermediate Facilities and Stochastic Demands
Marcos Negreiros	The Twin Rural Postman Problem: Basics, Methods and Application Results

15.30-16.00 coffee break

16.00-17.30 Session 4: Chair: Karl Doerner	
G. Maier	TBA. Invited practitioner, Fagus Consulting
Pavel Cimili	Sensor allocation and snow approximation strategies in time-dependent dynamic snowplowing problems

18:30 Dinner Restaurant Porzellan

Friday 23.05.2025

09.00-10.30 Session 5. Chair: Demetrio Laganà	
Alina G. Dragomir	Problem size reduction methods for large CVRPs
Elena Fernández	The Multiple-Picker Order Assigment Routing Problem
José M. Belenguer	Are the upper and lower bounds on the optimal value of Multi-Vehicle Arc Routing Problems used correctly?

10.30-11.00 coffee break

11.00-12.30 Session 6. Chair: Rafael Martinelli	
Jahir Llagas	Mechanics-Based Energy-and-Fuel Consumption Models in Arc Routing Problems
Vahid Akbari	Exact and heuristic methods for deploying electrified road systems on transportation networks
Isaac Plana	Solving the Min Max Multi-trip Loaction Arc Routing Problem with a branch-and-price algorithm

12.30-14.00 Lunch

14.00-15.00 Session 7. Chair: Candida Mourão	
Wenjin Yan	The Undirected Team Orienteering Arc Routing Problem: Formulations, Valid Inequalities, and Exact Algorithms
Simona Mancini	Multimodal Tourist Trip Design with nodes and arcs profit

15:00-15.30 coffee break

15.30-17.00 Session 8. Chair: Sanne Wøhlk	
Darius Arbabha	A Combinatorial Approach to solving the Capacitated Arc Routing Problem
Chahid Ahabchane	Optimization of snow removal operations on sidewalks
Karl Doerner	A rolling horizon framework for the time-dependent multi-visit dynamic safe street snow plowing problem

17.00-17.15 Closing of Workshop