

| Day                 | Start | End   | Session  | Chair                                   | Lecture Title  |            |                                   |   |
|---------------------|-------|-------|--|---|--|------------|-----------------------------------|---|
| Monday<br>Feb. 9    | 8:15  | 9:20  | REGISTRATION   |   |  |            |                                   |   |
|                     | 9:20  | 9:30  | PH.D. SCHOOL OPENING   |   |  |            |                                   |   |
|                     | 9:30  | 11:00 | MATTEO FISCHETTI   | Alice Raffaele                          | Benders and Bilevel Optimization   |            |                                   |   |
|                     | 11:00 | 11:30 | COFFEE BREAK   |   |  |            |                                   |   |
|                     | 11:30 | 13:00 | MARCO DI SUMMA   | Anthony Palmieri                        | Comparing branch-and-bound, cutting planes, and branch-and-cut               |            |                                   |   |
|                     | 13:00 | 14:30 | LUNCH BREAK  |   |  |            |                                   |   |
|                     | 14:30 | 16:00 | FRANCESCO RINALDI  | Matteo Pernini                          | Frank-Wolfe and friends: a journey into projection-free optimization methods |            |                                   |   |
|                     | 16:00 | 16:30 | COFFEE BREAK   |   |  |            |                                   |   |
|                     | 16:30 | 18:00 | DOMENICO SALVAGNIN   | Francesco Cavaliere                     | Computational Research 101   |            |                                   |   |
| Day                 | Start | End   | Session  | Session Title                           | Chair  |            |                                   |   |
|                     | Start | End   | Session  | Session Title                           | Chair  | Start Time | Name                              | Title   |
| Tuesday,<br>Feb. 10 | 8:30  | 9:00  | REGISTRATION   |   |  |            |                                   |   |
|                     | 9:00  | 9:20  | WORKSHOP OPENING   | 10AYW organizing committee              |  |            |                                   |   |
|                     | 9:20  | 11:00 | 1  | Transportation and Logistics I          | Francesco Cavaliere  | 9:20       | Abdelouahab Moubane               | Modeling and Optimization of Truck and Robot Routing without Robot-Depots   |
|                     |       |       |  |   |  | 9:40       | Fabio Buffoli                     | Beating Highway Gridlock: Iterative User Equilibrium with Local Congestion Caps                                       |
|                     |       |       |  |   |  | 10:00      | Antonino A. Carè                  | Last-mile Delivery with Autonomous Robots and Public Transport Line   |
|                     |       |       |  |   |  | 10:20      | Pierre Vendé                      | The Electric Vehicle Fleet Composition Problem with temperature considerations  |
|                     |       |       |  |   |  | 10:40      | Khaoula Kharfati                  | A Two-Stage Decomposition Method for the Electric Traveling Salesman Problem with Time Windows                        |
|                     | 11:00 | 11:30 | COFFEE BREAK   |   |  |            |                                   |   |
|                     | 11:30 | 11:40 | INSTITUTIONAL GREETINGS BY BRUNO CHIARELLOTTO, HEAD OF THE DEPARTMENT OF MATHEMATICS OF THE UNIVERSITY OF PADOVA |   |  |            |                                   |   |
|                     | 11:40 | 12:40 | PLENARY TALK – WOLFRAM WIESEMANN   | Anthony Palmieri                        |  |            |                                   | Large-Scale and Data-Driven Markov Decision Processes   |
|                     | 12:40 | 14:00 | LUNCH BREAK  |   |  |            |                                   |   |
|                     | 14:00 | 14:40 | 2  | Optimization under Uncertainty I        | Lorenzo Perinello  | 14:00      | Federica Donnini                  | Heuristics for two-stage stochastic $K$ -adaptability   |
|                     |       |       |  |   |  | 14:20      | Hubert Villuendas                 | First-Order Methods for Distributionally Robust Mixed-Integer Optimization  |
|                     | 14:40 | 16:00 | 3  | Energy and Environmental Applications I | Alessandro Druetto   | 14:40      | Andrea Spinelli                   | A Stochastic Electric Vehicle Routing Problem under Uncertain Energy Consumption                                      |
|                     |       |       |  |   |  | 15:00      | Pietro Girardis                   | A Three-Stage Lexicographic Constraint Programming Approach for an Energy-Efficient Scheduling Problem                |
|                     |       |       |  |   |  | 15:20      | Leena Aizdi                       | Energy-Aware Sequencing and Routing in GreenWarehouses by Integrating Energy Management Systems and Renewable Energy  |
|                     |       |       |  |   |  | 15:40      | Katarzyna Gdowska                 | Optimal Sectorization in Municipal Waste Collection Systems   |
|                     | 16:00 | 16:30 | COFFEE BREAK   |   |  |            |                                   |   |
|                     | 16:30 | 17:30 | 4  | Advances in Mathematical Programming I  | Matteo Pernini   | 16:30      | Diego Scuppa                      | A gradient method with momentum for Riemannian manifolds  |
|                     |       |       |  |   |  | 16:50      | Elisa Trasatti                    | Manifold optimization methods for the XY random field   |
|                     |       |       |  |   |  | 17:10      | Riccardo Tomassini                | Combining discretization and exact penalty techniques in semi-infinite programming                                    |
|                     | 17:30 | 18:30 | 5  | Scheduling and Timetabling I            | Gabriele Sanguin   | 17:30      | Annalisa Castelletti              | Batch Scheduling with Compatible Families and Setups: Enhanced MILP Formulations                                      |
|                     |       |       |  |   |  | 17:50      | Lorenzo Tomasetti                 | A Comprehensive Hybrid Flow Shop Scheduling Model for Steelmaking and Ingot Casting                                   |
|                     |       |       |  |   |  | 18:10      | Marco Zunino                      | University Timetabling with Professor Preferences: Exact and Heuristic Methods  |
| Wedn.,<br>Feb. 11   | 8:30  | 9:00  | REGISTRATION   |   |  |            |                                   |   |
|                     | 9:00  | 10:00 | 6  | Network Optimization I                  | Matteo Cosmi   | 9:00       | Eleonora Bellesso                 | Analysis of a general regularized continuous formulation for the maximum $s$ -plex problem                            |
|                     |       |       |  |   |  | 9:20       | Roberto Ronco                     | On the Spectrum of Path-Length Density Matrices of Unrooted Binary Trees  |
|                     |       |       |  |   |  | 9:40       | Stefano Ardizzoni                 | Shortest Path Problem with Functional Edge Costs  |
|                     | 10:00 | 10:30 | COFFEE BREAK SPONSORED BY HEXALY   |   |  |            |                                   |   |
|                     | 10:30 | 11:30 | PLENARY TALK – STEFAN RØPKE  | Francesco Cavaliere                     |  |            |                                   | Vehicle Routing Problems  |
|                     | 11:30 | 12:30 | 7  | Scheduling and Timetabling II           | Martina Doneda   | 11:30      | Alice Daldossi                    | Building a fair and efficient surgical unit: insights from academic vascular surgery                                  |
|                     |       |       |  |   |  | 11:50      | Sara Cambiaghi                    | A Column-Generation Approach to Joint Master Surgical Scheduling and Case Assignment under Bed Capacity Constraints   |
|                     |       |       |  |   |  | 12:10      | Martina Doneda                    | An ILP approach to urgent patient management in an orthopedic department  |
|                     | 12:30 | 14:00 | LUNCH BREAK  |   |  |            |                                   |   |
|                     | 14:00 | 15:00 | 8  | Transportation and Logistics II         | Gabriele Sanguin   | 14:00      | Cevat Enes Karaahmetoglu          | Multibjective Route Planning for Multi-Truck Multi-UAV Operations: Multi-Visit Sorties and Flexible Rendezvous Points |
|                     |       |       |  |   |  | 14:20      | Paolo Beatrice                    | A Benders decomposition approach for a green bi-objective stochastic fleet size and mix vehicle routing problem       |
|                     |       |       |  |   |  | 14:40      | Veronica Mosca                    | Multi-Quality Multi-Objective Green VRP with Air-Conditioning Systems   |
|                     | 15:00 | 16:00 | 9  | Heuristics and Metaheuristics           | Marta L. Tessitore   | 15:00      | Elisa Savio                       | A Tabu Search for the Three-Dimensional Block Relocation Problem with Item Families                                   |
|                     |       |       |  |   |  | 15:20      | Seyyedeh Reihaneh Naghib Hosseini | Minimizing the Energy Consumption of Terminal Vehicles for Stowage Planning   |
|                     |       |       |  |   |  | 15:40      | Enrico Brambilla                  | Relax-and-Explore Kernel Search for Multidimensional Multiple-Choice Knapsack Problems                                |
|                     | 16:00 | 17:00 | 10   | Optimization under Uncertainty II       | Martina Galeazzo   | 16:00      | Arianna Freda                     | Cost-Aware Scheduling under Uncertainty: An Optimization Model for Heart Donor Management                             |
|                     |       |       |  |   |  | 16:20      | Giovanni Spisso                   | The Maximum Clique Problem under Adversarial Uncertainty: a min-max approach  |
|                     |       |       |  |   |  | 16:40      | Yasmany Fernández Fernández       | Hybrid Strategy in the Robust Evacuation Problem Considering Network Complexities                                     |
|                     | 17:00 | 19:30 | SOCIAL EVENT AT PALAZZO BO SPONSORED BY HEXALY   |   |  |            |                                   |   |

|                      |   |       |   |  |                                 |       |  |
|----------------------|---|-------|---|--|---------------------------------|-------|--|
| Thursday,<br>Feb. 12 | 8:30  | 9:00  | REGISTRATION                              |  |                                 |       |  |
|                      | 9:00  | 10:00 | 11  | Network Optimization II                  | Anthony Palmieri                | 9:00  | Luca Pirolo  |
|                      |   |       |   |  |                                 | 9:20  | Fabio Ciccarelli   |
|                      |   |       |   |  |                                 | 9:40  | Nikola Kovacevic   |
|                      | COFFEE BREAK  |       |   |  |                                 |       |  |
|                      | 10:30   | 11:30 | PLENARY TALK – MARTINE LABBÉ              |  | Matteo Pernini                  |       | Multidimensional Disjunctive Inequalities for Linear Chance-Constrained Problems with Finite Support |
|                      | 11:30   | 12:30 | 12  | Transportation and Logistics III         | Sara Stoia                      | 11:30 | Alessia Ciacco   |
|                      |   |       |   |  |                                 | 11:50 | Carlo Maria Aloe   |
|                      |   |       |   |  |                                 | 12:10 | Sara Stoia   |
|                      | GROUP PICTURE + LUNCH BREAK   |       |   |  |                                 |       |  |
|                      | 14:00   | 14:30 | SPONSOR SESSION – Hexaly, Mosek           |  | Lorenzo Perinello               |       |  |
|                      | 14:30   | 15:30 | 13  | Decision Support Systems I               | Serena Fugaro                   | 14:30 | Martina Luzzi  |
|                      |   |       |   |  |                                 | 14:50 | Silvia Iuliano   |
|                      |   |       |   |  |                                 | 15:10 | Serena Fugaro  |
|                      | 15:30   | 16:50 | 14  | Learning-based Optimization              | Martina Doneda                  | 15:30 | Alessandro Minoli  |
|                      |   |       |   |  |                                 | 15:50 | Angjelo Zojzi  |
|                      |   |       |   |  |                                 | 16:10 | Chiara Faccio  |
|                      |   |       |   |  |                                 | 16:30 | Virginia Marcelli  |
|                      | COFFEE BREAK  |       |   |  |                                 |       |  |
|                      | 17:20   | 18:30 | AIROYOUNG ROUNDTABLE                      |  | Alice Raffaele, AIROYOUNG board |       |  |
|                      | SOCIAL DINNER AT OSTERIA ANTICO BROLO, WITH APERITIFS AND AFTER-DINNER DRINKS OFFERED BY DISTILLERIA BRUNELLO |       |   |  |                                 |       |  |
| Friday,<br>Feb. 13   | 8:30  | 9:00  | REGISTRATION                              |  |                                 |       |  |
|                      | 9:00  | 10:00 | 15  | Energy and Environmental Applications II | Francesco Cavaliere             | 9:00  | Gianluca Sabbatini   |
|                      |   |       |   |  |                                 | 9:20  | Giovanni Micheli   |
|                      |   |       |   |  |                                 | 9:40  | Silvia Anna Cordieri   |
|                      | COFFEE BREAK  |       |   |  |                                 |       |  |
|                      | 10:30   | 11:30 | PLENARY TALK – HANDE YAMAN PATERNOTTE     |  | Lorenzo Perinello               |       | Partitioning a Graph into Connected Components   |
|                      | 11:30   | 12:30 | 16  | Scheduling and Timetabling III           | Gabriele Sanguin                | 11:30 | Alex Fabian Barrales Araneda   |
|                      |   |       |   |  |                                 | 11:50 | Lingyuan Shi   |
|                      |   |       |   |  |                                 | 12:10 | Marco Dottor   |
|                      | LUNCH BREAK   |       |   |  |                                 |       |  |
|                      | 14:00   | 14:40 | SPONSOR SESSION – FICO, CNR-IASI, CNR-IAC |  | Matteo Pernini                  |       |  |
|                      | 14:40   | 16:00 | 17  | Transportation and Logistics IV          | Anthony Palmieri                | 14:40 | Luca Dalla Costa   |
|                      |   |       |   |  |                                 | 15:00 | Filippo Magi   |
|                      |   |       |   |  |                                 | 15:20 | Yingzhi Wang   |
|                      |   |       |   |  |                                 | 15:40 | Federico Michelotto  |
|                      | COFFEE BREAK  |       |   |  |                                 |       |  |
|                      | 16:30   | 17:30 | 18  | Advances in Mathematical Programming II  | Martina Galeazzo                | 16:30 | Edoardo Cesaroni   |
|                      |   |       |   |  |                                 | 16:50 | Matteo Zanella   |
|                      |   |       |   |  |                                 | 17:10 | Mariagrazia Cairo  |
|                      | CLOSING   |       |   |  |                                 |       | 10AYW organizing committee   |

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