Time zone: CET	Virtual room 1: Zoom		Virtual room 2: Zoom		Virtual room 3: Zoom	
June 9 (Thursday)						
09:45–10:00AM	Conference opening (Bo Chen, Alexander S. Kulikov, Silvano Martello)					
Session 1	Scheduling (Chairperson: Van-Dat Cung)		Routing (Chairperson: Paolo Toth)		Bioinformatics (Chairperson: Jacek Błażewicz)	
10:00–10:20AM	Ran Lin	Best possible algorithms for online scheduling on identical batch machines with periodic pulse interruptions	Arne Schulz	A branch-and-cut algorithm for the dial-a-ride problem with ride and waiting time minimization and time windows	Jaroslaw Synak	RNA World - stability of ODE model with limited resources
10:20–10:40AM	Fangfang Wu	A (2 + ε)-approximation Algorithm for Scheduling Moldable Tasks on Hybrid Platforms	Gozde Onder Uzun	Biogeography based heuristic for the traveling repairman problem with time windows	Bartosz Adamczyk	RNAsolo: a structural study-aimed RNA database
10:40–11:00AM	Alexander Kononov	On the Complexity of Flow Shop Scheduling with Job-Dependent Storage Requirements	Matheus Andrade	A branch-and-price algorithm for a Dengue control routing problem	Michal Zurkowski	Genetically or geometrically? How to optimally superimpose RNA structures
11:00–11:10AM	Break (10 minutes)					
Session 2	Scheduling (Chairperson: Mariona Vila Bonilla)		Graphs (Chairperson: Marco Pranzo)		Bioinformatics (Chairperson: Burak Kocuk)	
11:10–11:30AM	Adrian Serrano-Hernandez	Multi-stage Stochastic Optimization for a Biorefinery Supply Chain in Spain	Sylwester Swat	Efficient data reduction rules for the cluster editing problem	Artur Laskowski	Genomic Matching Optimization Problem
11:30–11:50AM	Dmitry Arkhipov	Scheduling, Vehicle Routing and Convex Zones Partitioning Problem	Sebastien Bonte	The average size of maximal matchings in graphs	Nabil Boumedine	Memetic Algorithm with β Hill-Climbing Algorithm for Protein structure prediction problem
11:50–12:10PM	Mariona Vila Bonilla	A new hybrid genetic algorithm to minimize cycle time for the Simple Assembly Line Balancing Problem	Marco Pranzo	Computing quantile-based Makespan risk in Interval Valued Activity Networks	Burak Kocuk	Risk-Averse Antibiotics Time Machine Problem
12:10–12:20PM	Break (10 minutes)					
Session 3	Scheduling (Chairperson: Maciej Drozdowski)		Routing (Chairperson: Ilya Chernykh)		Packing, scheduling (Chairperson: Hamed Azami Zenouzagh)	
12:20–12:40PM	Marta Flamini	Models for a complex job-shop scheduling problem with additional resources	Olga Krivonogova	Efficient Algorithms for the Routing Open Shop with Unrelated Travel Times on Cacti	Sofia Shperling	A knapsack problem for rectangles under the gravity center constraints
12:40–01:00PM	Mustafa Avci	Branch-and-cut for the distributed no-wait flowshop scheduling problem	Polina Agzyamova	Routing open shop with preemption allowed	Guo-Qiang Fan	Pareto optimization of two-agent scheduling on mixed batch machines
01:00–01:20PM	Maciej Drozdowski	Container Ship Traffic Model for Optimization Studies	Ilya Chernykh	2-Summing problem and NP-hardness of proportionate routing open shop	Hamed Azami Zenouzagh	Compiling Decision Diagrams for Optimization using Iterative Cost-To-Go Approximation
01:20–02:20PM	Break (1 hour)					
Session 4	Scheduling (Chairperson: Alessandro Hill)		Routing (Chairperson: Ege Somer)		Misc (Chairperson: Juan A. Gomez-Pulido)	
02:20–02:40PM	Daniel Skachkov	Cellular Network Rollout Scheduling	Igor Kulachenko	An adaptive large neighborhood search heuristic for the robust rig routing problem with drilling time uncertainty	Salah Balamane	A Weighted-based heuristic for Lifetime Maximization in Wireless Sensor Networks
02:40–03:00PM	Mirko Mucciarini	Demand Forecasting Methods: A Case Study in the Italian Processed Meat Industry	Yang Wang	Combining Reinforcement Learning and Adaptive Large Neighborhood Search for the Capacitated Vehicle Routing Problem	Bartosz Sawik	A Cybersecurity Investment Portfolio of Security Safeguards for Military and Nonmilitary Cases
03:00–03:20PM	Alessandro Hill	Efficient Project Scheduling with Autonomous Learning	Ege Somer	Hybrid genetic algorithm approach for production-inventory routing problem with perishable products	Juan A. Gomez-Pulido	Cost Minimization of Slab Bridges by means of Pattern Search
03:20–03:30PM	Break (10 minutes)					
03:30–04:30PM	Invited talk: Andrea Lodi Mathematical Programming Games: motivation, algorithms and challenges Chairperson: Silvano Martello					
June 10 (Friday)						
Session 5	Scheduling (Chairperson: Joanna Berlińska)		Graphs (Chairperson: Rhyd Lewis)		Multi-objective optimization (Chairperson: Michael Stiglmayr)	
10:00–10:20AM	Ivan Davydov	A matheuristic approach for the supplementary school timetabling problem	Qiao Zhang	The Restricted Inverse Optimal Value Problem on Shortest Path under l_1 Norm on Trees	Younes Djellouli	Accelerating the bi-objective knapsack problem on a CPU-GPU system
10:20–10:40AM	Ivan Davydov	Hybrid Variable Neighborhood Search for Automated Warehouse Scheduling	Xinqiang Qian	Vertex quickest 1-center location problem on trees and its inverse problem under weighted l∞ norm	Banu Icmen Erdem	Comparison of Scalarization Methods on Multi-objective Carpooling Problem
10:40–11:00AM	Joanna Berlińska	Scheduling data gathering with background communications and a processing stage	Rhyd Lewis	Algorithms for Finding Fixed-Length Cycles in Edge-Weighted Graphs	Michael Stiglmayr	Ordinal Optimization Through Multi-objective Reformulation
11:00–11:10AM	Break (10 minutes)					
Session 6	Scheduling (Chairperson: Ahmed Missaoui)		Graphs (Chairperson: Irene Sciriha)		MIP (Chairperson: Stefano Coniglio)	
11:10–11:30AM	Kasra Mousighichi	The Distributed No-Idle Flowshop Scheduling Problem with Due Windows	Banu Baklan Sen	List-3-coloring for Star Convex Bipartite Graphs with Particular Lists	Benedetto Manca	Random projections of Quadratically Constrained Programs
11:30–11:50AM	Rukiye Kaya	Mathematical Models and Metaheuristic Approaches for the Order Consolidation Scheduling Problem	Michal Malafiejski	Global defensive secure structures	Stefano Coniglio	Norm minimization problems in data science: an integer programming perspective
11:50–12:10PM	Ahmed Missaoui	An Iterated local search for Solving the Total weighted earliness tardiness Blocking Flowshop scheduling problem	Irene Sciriha	Beyond the Symmetries of the Base Graphs of a Canonical Double Cover	Laureano F. Escudero	On two-stage binary quadratic modeling under uncertainty for Cross-Dock Design
12:10–12:20PM	Break (10 minutes)					
Session 7	Scheduling (Chairperson: Alexander Yuskov)		Graphs (Chairperson: Bunyamin Sahin)		MIP (Chairperson: Roger Z. Rios)	
12:20–12:40PM	Alexey Ratushnyi	A two-stage heuristic for the trailers waiting time optimization with uncertain arrival times	Fatma Kaci	On Disjoint Maximum and Maximal independent sets in graphs and Inverse Independence number	Erdener Ozcetin	A VNS Algorithm for Solving Quadratic Assignment Problem
12:40–01:00PM	Bilel Souissi	A machine learning techniques based Fuzzy Multi-Criteria Decision Support approach for online advertising effectiveness	Juanjo Peiro	Some formulations for the capacitated dispersion problem	Abderrahim Arabi	Effective Generation of The Alternative Optima Set for Integer Programming
01:00–01:20PM	Alexander Yuskov	Local search heuristic for the parallel machine scheduling with transport robots	Bunyamin Sahin	Hosoya index of caterpillar graphs	Roger Z. Rios	Exact Optimization of Districting Plans with p-Center-Based Dispersion Minimization
01:20–02:20PM	Break (1 hour)					
Session 8	Scheduling (Chairperson: Alessandro Agnetis)		Graphs (Chairperson: Cong X. Kang)		MIP (Chairperson: Nelson Maculan)	
02:20–02:40PM	Blanca Sanchez-Robles	Non-parametric efficiency in the CRO industry, 2012-2020. A bootstrap two stage exploration	Sebastian Taboh	A Novel Backtracking Algorithm for Solving List Coloring	Evellyn S. Cavalcante	On the arboreal jump number of a poset
02:40–03:00PM	Gabriella Colajanni	Optimizing VF Placement in UAVs for 5G Network and Service Provisioning	M. Antonia Mateos-Camacho	On the Quintuple Roman domination in graphs	Maria Merino	Time consistent stochastic dominance risk strategies induced by multistage quadratic mixed-integer stochastic optimization
03:00–03:20PM	Alessandro Agnetis	Time-critical testing and search problems	Cong X. Kang	On the simultaneous metric dimension of graphs	Nelson Maculan	New Mixed Integer Nonlinear Optimization Models for the Clustering Problem
03:20–03:30PM	Break (10 minutes)					
03:30–04:30PM	Invited talk: Ulrich Pferschy Fairness and Conflicts: Allocating Items and Resources Chairperson: Bo Chen					
June 11 (Saturday)						
Session 9	Packing (Chairperson: Asaf Levin)		MIP, scheduling (Chairperson: Syed Aqib Jalil)		Facility location (Chairperson: Maria Grazia Speranza)	
10:00–10:20AM	Alberto Locatelli	Knapsack problems: An Overview of Recent Advances	Giulia Caselli	Decomposition Algorithms for a Parallel Machine Scheduling Problem with Workforce and Precedence Constraints	Jiahong Zhao	A combinatorial optimization approach for the infectious waste location-routing problem
10:20–10:40AM	G. Jaykrishnan	EPTAS for the Dual Splittable Bin Packing Problem with Cardinality Constraints	Zainab Asim	Developing An Efficient Sustainable Grey Bi-level Model for Healthcare Waste Management	Francesco Gallesi	Dynamic Optimization Algorithms for Same-Day Delivery Problems
10:40–11:00AM	Asaf Levin	The near exact bin covering problem	Syed Aqib Jalil	A fuzzy linguistic preferences based method for solving bi-level programming problems	Maria Grazia Speranza	A Kernel Search Heuristic for a Fair Facility Location Problem
11:00–11:10AM	Break (10 minutes)					
Session 10	Packing (Chairperson: Laura Galli)		Multi-objective optimization (Chairperson: Yacine Chaiblaine)		Facility location (Chairperson: Mirko Cavecchia)	
11:10–11:30AM	Daniel Hernando Cuellar-Usaquen	An approach for the Online 3D Bin Packing Problem	Chaabane Khadija	A Parallel Algorithm to solve Bi-Objective Knapsack Problem	Alan Osorio-Mora	Hybrid metaheuristics for the latency location routing problem

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11:30–11:50AM	Zhongxiang Chang	Image data downlink scheduling problem for multi-satellite with characteristic of two-stage cutting stock	Soukeur EL Hussein Iz El Islam	Artificial Neural Network Time Series Model with Multi Objective Optimization for Renewable Energy Developments	Renan Spencer Trindade	Alternative solving methods for Configuration Space Search Problem
11:50–12:10PM	Laura Galli	Matheuristics and Local Search for the Quadratic Multiple Knapsack Problem	Yacine Chaiblaine	Convex Optimization Over the Efficient Set of Multiobjective Integer Linear Fractional Programs	Mirko Cavecchia	A Facility Location Problem to support Helicopter Emergency Medical Services
12:10–12:20PM	Break (10 minutes)						
Session 11	Packing (Chairperson: Mohsen Nafar)		Graphs (Chairperson: Kacper Wereszko)		Games (Chairperson: Stefan Lendl)		
12:20–12:40PM	Daniel Rossit	VLC-Indoor positioning Layout design, similarities to packing problems	Pratip Nandi	Annihilator graph of the ring CF(X)	Emel Savku	An Application of Stochastic Differential Games with Lagrange Multipliers: Bancassurance
12:40–01:00PM	Antoine Lhomme	Lower bounds for online bin stretching and related problems	Daniela Scherer dos Santos	A Dynamic Local Search algorithm for the Maximum Quasi-clique Problem	Darko Skorin-Kapov	The Nucleolus of the Network Connectivity Game
01:00–01:20PM	Mohsen Nafar	Novel heuristics for Compiling Approximate Decision Diagrams for Combinatorial Optimization	Junhua Jia	The Restricted Inverse Optimal Value Problem on Minimum Spanning Tree under Weighted l∞ Norm	Stefan Lendl	Two-Stage robust optimization problems with two-stage uncertainty
01:20–01:40PM			Kacper Wereszko	Discrete optimization algorithms for global defensive alliance problem in graphs	Salah Balamane	A Weighted-based heuristic for Lifetime Maximization in Wireless Sensor Networks
01:40–02:40PM	Break (1 hour)						
02:40–03:40PM	Invited talk: Nikolaos Matsatsinis Evolutionary and Swarm Intelligence Algorithms for Combinatorial Optimization Problems Chairperson: Alexander S. Kulikov						
03:40–04:00PM	Closing remarks (Bo Chen, Silvano Martello)						