

Wednesday, September 6

period	Session	Session Organizer	Session Title	Session Chair	Presenting Author	Presentation Title	Room
10:40-12:20	WA1		Workshop Luís Gouveia Session I	Juan José Salazar Gonzalez	Pedro Martins	Capital and loaning constrained project scheduling	3.2.14
					Cristina Requejo	On the robust lot-sizing problem	
					Markus Leitner	The Network Design Problem with Vulnerability Constraints	
					Ridha Mahjoub	Design of Survivable Networks with Bounded-Length-Paths	
					Juan José Salazar Gonzalez	Stronger Bounds in Pseudo-Polynomial Time for the Capacitated Vehicle Routing Problem	
	WA2	Fernando Fontes	Optimization-Based Control I: Fundamentals	Fernando Fontes	Niels van Duijkeren	NMPC with Economic Objectives on Target Manifolds	6.2.50
					Andrea Alessandretti	On the design of Model Predictive Control schemes for economic optimization and applications to motion control of robotic vehicles	
					Fernando Fontes	On the use of continuous-time models for optimization-based control of constrained nonlinear systems	
	WA3		Continuous Constrained Optimization	Ismael Vaz	Asma Atamna	A New Testbed to Benchmark Algorithms for Continuous Constrained Optimization	6.2.49
					Quentin Mercier	A Stochastic Multiple Gradient Descent Algorithm, Illustration on a Sandwich Material Optimization Problem	
					Cristian Barbarosie	A derivative-based algorithm for constrained minimization	
					Ismael Vaz	Optimization in additive manufacturing	
	WA4		Multiobjective Optimization	Marta Pascoal	Nimet Yapici Pehlivan	An Integrated Fuzzy C-Means Clustering and Multi Criteria Decision Making methods for evaluating the Logistic Performance Index: A comparative analysis	6.2.48
					Rubi Arya	A fully fuzzy method for multi-objective fractional optimization problems	
					José Luis Santos	A new algorithm for the multiobjective minimum spanning tree	
					Marta Pascoal	Bimaterial 3D printing: formulation and case study	
	WA5		Optimization in Engineering	Hideshi Ishida	Luis Francisco Castillo Gamarra	Estimation of Mature Water Flooding Performance and Optimization by Using Capacitance Resistive Model and Fractional Flow model by layer	6.2.47
					Rtimi Youness	Topology optimization to design magnetic circuits	
					Maria Stefanova	An interior point method-based solver for simulation of aircraft parts riveting	
					Hideshi Ishida	Non-parametric optimization of time-averaged quantities under small, time-varying forcing: An application to a thermal convection field	

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16:45-18:00	WC1		Workshop Session III	Bernard Fortz	Amaro de Sousa	Maximization of Protected Demand in Telecommunication Networks using Partial Disjoint Paths	3.2.14
					Bernard Gendron	Combining Discretization and Dantzig-Wolfe Reformulations: The Case of the Fixed-Charge Transportation Problem	
					Bernard Fortz	Connectivity and hop constraints in a social graph	
	WC2	Livia Susu	Variational Inequalities and PDE-Constrained Optimization I	Livia Susu	Constantin Christof	On Subdifferentials of PDE Solution Operators	6.2.50
					Sebastian Engel	Optimal Control of the Wave Equation with BV-Functions	
					Livia Susu	Optimal Control of Nonsmooth, Semilinear Parabolic Equations	
	WC3		Continuous Optimization	Rohollah Garmanjani	Seyedehsomayeh Hosseini	A gradient sampling method on algebraic varieties	6.2.49
					Mahboubeh Farid	The New Diagonal Hessian Approximation of Multi-Step Gradient -Type Methods for Large Scale Optimization	
					Rohollah Garmanjani	Worst-Case Complexity Analysis of Convex Nonlinear Programming	
	WC4		Railway Optimization	António Antunes	Peng Guo	Scheduling gantry cranes with transshipment trucks in rail-road container terminals	6.2.48
					Carlos Iglésias	An evolutionary optimization model for solving large-scale line planning problems in railways	
					António Antunes	Revenue management in a railway company: A case study in Portugal	

Thursday, September 7

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10:40-12:20	TA1	Francisco Saldanha-da-Gama	Facility Location with Applications	Francisco Saldanha-da-Gama	Xavier Cabezas	A Stochastic Formulation for the Simple Plant Location Problem with Order	6.2.50
					Ivana Ljubic	Outer approximation and submodular cuts for maximum capture facility location problems with random utilities	
					Mozart B.C. Menezes	Supply chain complexity and the network design: Location does matter!	
					Francisco Saldanha-da-Gama	Service location for unit demand customers: dealing with uncertainty	
	TA2		Semidefinite and Semi-infinite Programming	Tatiana Tchemisova	Mina Saeed Bostanabad	SOS versus SDSOS polynomial optimization	6.2.49
					Cédric Josz	Large scale moment/sum-of-squares hierarchy	
					Tatiana Tchemisova	On Optimal Properties of Special Semi-infinite Problems Arising in Parametric Optimization	
	TA3		Networks I	Maria Teresa Almeida	Filipa Duarte de Carvalho	k-clubs with diameter constrained spanning trees	6.2.48
					Luidi Simonetti	A branch-and-cut algorithm and heuristics for the maximum weight spanning star forest problem	
					Bartosz Filipecki	Stronger Extended Formulation for the Steiner Tree Problem	
					Maria Teresa Almeida	New models to identify large cohesive groups in networks	
	TA4		Routing I	Maria Cândida Mourão	Olcay Polat	Cooperative Variable Neighborhood Search for the Vehicle Routing Problem with Pickup and Delivery	6.2.47
					Leyla Ozgur Polat	A variable neighborhood search based solution approach for designing service network of beverage distribution	
					Maria da Conceição Fonseca	Performance comparison of modeling approaches for the Steering of International Roaming problem	
					Maria Cândida Mourão	Arc routing involving dissimilarity issues	
	TA5		Non-Linear MIP	Pedro Castro	Melis Mumcuoglu	Mixed Integer Quadratic Programming and an Application in Workload Assignment	6.2.46
					Massimo De Mauri	A time transformation approach in hybrid vehicles optimal design	
					Frederic Messine	Reliable Convex Relaxation Techniques for Global Optimization	
					Pedro Castro	Global Optimization Algorithm for MIQCPs featuring Dynamic Piecewise Relaxations	
	TA6		Sectorization and Parking	Joana Cavadas	Saranthorn Phusingha	Benders Decomposition for the Multi-Period Sales Districting Problem	6.2.45
					Luís Miguel Bandeira	Sectorization Problems with Multiple Criteria	
					Mustapha Ratli	Effect of the learning factors on the dynamic assignment problem of parking slots	
					Joana Cavadas	Game-theoretic approach to transit and parking planning under competition	

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13:50-15:05	TB1	Paula Amaral	Copositive Optimization I	Paula Amaral	Markus Gabl	Copositive Approach to adjustable robust optimization	6.2.50
					Michael Kahr	Quadratic optimization with uncertainty in the objective function	
					Justo Puerto	An exact copositive representation for the Discrete Ordered Median Problem	
	TB2	Domingos M. Cardoso	Graphs and Optimization	Domingos M. Cardoso	Jorge Orestes Cerdeira	The train frequency compatibility problem	6.2.49
					Carlos J. Luz	A semidefinite programming approach to the 2-club problem	
					Domingos M. Cardoso	Lexicographic polynomials of graphs	
	TB3	Livia Susu	Variational Inequalities and PDE-Constrained Optimization II	Livia Susu	Dehan Chen	Ill-posed backward nonlinear hyperbolic evolution Maxwell's equations	6.2.48
					Florian Kruse	Total variation regularization of multi-material topology optimization	
					Philip Trautmann	Inverse Point Source Location With The Helmholtz Equation	
	TB4	Margherita Porcelli	Derivative Free Optimization	Margherita Porcelli	Anne Auger	Rethinking the Benchmarking of Derivative Free Optimizers	6.2.47
					Ana Luísa Custódio	MultiGLODS: Global and Local Multiobjective Optimization using Direct Search	
					Margherita Porcelli	Optimizing structured problems without derivatives and other new developments in the BFO package	
	TB5		Clustering	Graça Gonçalves	Stefano Benati	q-vars: a new heuristic to select the relevant features for clustering	6.2.46
					Antonio Manuel Rodríguez-Chía	New results in clustering data that are connected through a network	
					Graça Gonçalves	Comparative study of mathematical formulations for the K clusters with fixed cardinality problem	
	TB6		Facility Location	Isabel Correia	Manuel Vieira	A continuous formulation for the multi-row facility layout problem with rectilinear distances	6.2.45
					Algirdas Lancinskis	Ranking-based random search algorithm for discrete competitive facility location	
					Isabel Correia	A dynamic capacitated location problem with modular capacity adjustments and flexible demand satisfaction	

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16:45-18:00	TC1	Paula Amaral	Copositive Optimization II	Paula Amaral	Patrick Groetzner	Factorizations for completely positive matrices based on alternating projections	6.2.50
					Leocadio G. Casado	On regular simplicial division in branch-and-bound algorithms for copositivity detection.	
					Paula Amaral	Completely positive formulations for minimax fractional quadratic problems	
	TC2	Clément Royer	Stochastic and randomized algorithms	Clément Royer	Robert M. Gower	Stochastic Variance Reduced Methods Based on Sketching and Projecting	6.2.49
					Vianney Perchet	Upper-Confidence Frank-Wolfe algorithms for Convex Bandit Optimization: Fast rates.	
					Clément Royer	Including inexact second-order aspects in first-order methods for nonconvex optimization	
	TC3		Optimization Theory	Claudio Gentile	Eleazar Madriz	Bases of the Subadditive Cone and Benders Decomposition for the dual of the b-Complementary Multisemigroup Problem	6.2.48
					António Goucha	Bounds for ranks of polygons	
					Claudio Gentile	Matrix Decomposition and the Perspective Reformulation of Nonseparable Quadratic Programs	
	TC4		Health Care Optimization	Maria Eugénia Captivo	Ana Sofia Carvalho	Optimizing ambulance dispatching and relocation using a preparedness function	6.2.47
					Xenia Klimentova	Comparison of different policies for multi-agent kidney exchange programs	
					Maria Eugénia Captivo	Different Perspectives for a Surgical Case Assignment Problem	
	TC5		Urban Transportation	Marta Mesquita	Vitor Barbosa	A Math-Heuristic for Bus Driver Rostering: Generation, Evolution and Repair	6.2.46
					Katarzyna Gdowska	Multiple-period interval synchronization in urban public transport	
					Marta Mesquita	A decompose-and-fix heuristic for re-rostering bus drivers	
	TC6		Travelling Salesman Problem	Daniel Santos	Raquel Bernardino	Models for the family traveling salesman problem	6.2.45
					Michele Barbato	New inequalities and formulations for the double TSP with multiple stacks	
					Daniel Santos	A new formulation for the Hamiltonian p-median problem	

Friday, September 8

period	Session	Session Organizer	Session Title	Session Chair	Presenting Author	Presentation Title	Room
10:40-12:20	FA1	Clément Royer	Recent advances in first-order methods and applications	Clément Royer	Guillaume Garrigos	Iterative regularization for general inverse problems	6.2.50
					Jingwei Liang	Activity Identification and Local Linear Convergence of Forward--Backward-type Methods	
					Nelly Pustelnik	Scale-Free Texture Segmentation	
					Samuel Vaiter	Accelerated Alternating Descent Methods for Dykstra-like problems	
	FA2	Agostinho Agra	Mixed Integer Problems	Agostinho Agra	Ashwin Arulsevelan	Economic lot-sizing problem with remanufacturing option: Complexity and Algorithms	6.2.49
					Luís Flores	Vehicle Routing Problem in wireless sensor networks	
					Öykü Naz Attila	A Decomposition Algorithm for Robust Lot Sizing Problem with Remanufacturing Option	
					Agostinho Agra	Policies for the robust lot-sizing problem with perishable products	
	FA3		Routing II	Germán Paredes-Belmar	Filipe Rodrigues	Hybrid heuristic approaches for a stochastic production-inventory-routing problem	6.2.48
					Emine Es Yurek	An iterative optimization approach for drone supported travelling salesman problem	
					Katarzyna Gdowska	Utilization of Internet of Things for Routing in City Logistics	
					Germán Paredes-Belmar	The HAZMAT distribution problem with multiple products	
	FA4		Networks II	Dalila B.M.M. Fontes	Alessandra Cornaro	Robustness assessment of complex networks based on the Kirchhoff index	6.2.47
					Eliana Costa e Silva	Optimization models and methods for "Rota do Românico"	
					Kevin Prendergast	Locating a cluster head for minimum-power under symmetric range assignment	
					Dalila B.M.M. Fontes	Heuristics solutions for the Maximum Edge Weight Clique Problem: a Quadratic Approach	
	FA5		Optimization Applications	Abilio Lucena	Gian Paolo Clemente	Directed clustering in weighted networks: a new perspective	6.2.46
					Lynda Sellami	Genetic algorithm for intrusion detection of pervasive and ubiquitous environments	
					M. Teresa T. Monteiro	On the Dynamics of Computer Viruses Transmission using an Epidemiological Approach	
					Abilio Lucena	Analytical Models to Estimate Connectivity and Value in the International Trade of Supplies	