Quick Program

Wednesday, 5 March, 2014

7:30 - 8:00	Registration: Basement		
8:00 - 8:10	Opening Session: room Miguel Ângelo II + III		
8:10 - 8:55	**Session WP**: room Miguel Ângelo II + III **Martin Grötschel - Routing problems: Standard and unusual cases** Chair: Ridha Mahjoub		
8:55 - 9:00	break		
9:00 - 10:15	**Session WA-I** **Routing/Polyhedra** Chair: Pierre Pesneau	**Session WA-II** **Integer Linear Programming I** Chair: Maria Grazia Scutella	**Session WA-III** **Robust Optimization I** Chair: Ivana Ljubic
	Daniel Espinoza 2-parity inequalities for the traveling salesman problem: Separation and lifting	Paula Carroll Unit Commitment Models and Benchmark Problems	Jean-François Baffier Parametric Multiroute Flow and its Application to Robust Network with k Edge Failures
	Ibrahima Diarrassouba Separation of the CVRP Rounded Capacity Cut Inequalities: Complexity and Applications to Rooted Partition Inequalities	Carlos Casorrán-Amilburu Novel Formulations for Stackelberg Security Games	Marisa Resende Algorithms for the min-max regret robust shortest path problem in a finite multi-scenario model
	Maria Teresa Godinho On the Single Commodity Flow Formulation: Generalizing the Upper and Lower Flow Bounding Inequalities	Phuoc Hoang Le Generalized Minimum Spanning Tree Games	Ivana Ljubiic The Recoverable Robust Facility Location Problem
10:15 - 10:30	Coffee Break: Basement Atrium		
10:30 - 12:10	**Session WB-I** **Routing I** Chair: Annegret Wagler	**Session WB-II** **Integer Linear Programming II** Chair: Bernard Gendron	**Session WB-III** **Trees I** Chair: S. Raghavan
	Thibaut Barthelemy A multi-objective Recovering Beam Search and its application to the TSP with Profits	Hacene Ouzia Two New Reformulation Convexification Based Hierarchies for 0-1 MIPs	Naoyuki Kamiyama Packing Arborescences in Acyclic Temporal Networks
	Maria João Cortinhal Local search heuristics for residential waste collection problems	Ruslan Sadykov Combining dual price smoothing and piecewise linear penalty function stabilization in column generation: experimental results	Sandro Montanari Rectilinear Shortest Path and Rectilinear Minimum Spanning Tree with Neighborhoods
	Elyn Solano-Charris Heuristic Approaches for the Robust Vehicle Routing Problem	Agostinho Agra Valid inequalities for a MIP set with variable conflicts	Olga Oliveira Tree inference from a distance matrix
	Kadri Sylejmani Planning Trip Itinerary for Tourist Groups via a Tabu Search Algorithm	Bernard Gendron Reformulations by Discretization for Piecewise Linear Integer Multicommodity Network Flow Problems	S. Raghavan A Tight Extended Formulation for the Weighted Target Set Selection Problem on Trees
12:10 - 14:00	Lunch (on your own)		

Wednesday, 5 March, 2014

14:00 - 15:40	**Session WC-I** **Routing: Pick up and delivery** Chair: Juan José Salazar González	**Session WC-II** **Integer Linear Programming III** Chair: Maria Teresa Almeida	**Session WC-III** **Network Design I** Chair: Thibaut Lefebvre	**Session WC-IV** **Non-Linear Programming** Chair: Jon Lee
	Annegret Wagler On Resolving the Static Relocation Problem in Carsharing Systems	Graciela Nasini A tabu search heuristic for the Equitable Coloring Problem	Mateusz Zotkiewicz Fast algorithms for access network design	Pauline Sarrabezolles Colorful Linear Programming, Nash Eequilibrium and Pivots
	Agustin Montero An ILP-based heuristic for the VRP with pickups and deliveries	Noriyoshi Sukegawa Fractional programming formulation for the vertex coloring problem	Amal Benhamiche Optical Multi-Band Network Design problem : polyhedron and Branch-and-Cut	Long Trieu Active Set Methods with Reoptimization for Convex Quadratic Integer Programming
	Mario Ruthmair Modeling and Solving the One-to-One Multi-Commodity Pickup and Delivery Traveling Salesman Problem	Martin Fürer Approximating the k-Set Packing Problem by Local Improvements	Thibaut Lefebvre Network coding and multi-terminal flow problems	Geir Dahl Optimization and classes of completely positive matrices
	Juan José Salazar González Solving the one-commodity pickup-and-delivery single-vehicle routing problem with split demands	Maria Teresa Almeida Integer models for the triangle k-club problem		Jon Lee On global optimization with indefinite quadratics
15:40 - 16:00	Coffee break: Basement Atrium			
16:00 - 17:40	**Session WD-I** **Graphs I** Chair: Domingos Cardoso	**Session WD-II** **Integer Linear Programming IV** Chair: Pierre Fouilhoux	**Session WD-III** **Robust Optimization II** Chair: Sara Mattia	**Session WD-IV** **Scheduling I** Chair: Miguel Constantino
	Valeria Alejandra Leoni $\{k\}$-packing Functions of Graphs	Silvia Bianchi Study of identifying code polyhedra for some families of split graphs	Anna Ilyina Lagrangean Decomposition for Mean-Variance Combinatorial Optimization	Gulcin Ermis A branch and bound algorithm for scheduling chains with nonnegative timelags, arbitrary processing times and release times to minimize sum of completion times
	Toshimasa Ishii Subexponential Fixed-parameter Algroithms for Partial Vector Domination	Riccardo Dondi Fixed-Parameter Algorithms for Scaffold Filling	Martin Tieves A Modelling Framework for Multiple Sources of Data-Uncertainty in Combinatorial Optimization Problems	Paolo Serafini A time indexed model for Open Shop and Job Shop with three operations
	Karlis Freivalds Graph Compact Layout Algorithm	Yanina Lucarini Progress on identifying codes in cycles	Sara Mattia Robust shift scheduling in call centers	Imed Kacem Fully Polynomial Time Approximation Scheme for the Maximum Lateness Minimization on a Single Processor with a Fixed Operator or Machine Non-Availability Interval
	Sofia J. Pinheiro Spectral bounds for the k-regular induced subgraph problem	Pascale Bendotti An integer formulation based on common supersequences to solve the Permutation Problem using a Unit-Capacity Robot		
18:30 - 20:00	Welcome Reception : Hotel Atrium (groundfloor)			

Thursday, 6 March, 2014

8:30 - 9:15	**Session WP**: room Miguel Ângelo II + III **Matteo Fischetti - BRANCHstorming (brainstorming about tree search)** Chair: Giovanni Rinaldi		
9:15 - 9:30	break		
9:30 - 10:45	**Session TA-I** **Scheduling II** Chair: Luís Florêncio	**Session TA-II** **Integer Linear Programming V** Chair: Martine Labbè	**Session TA-III** **Trees II** Chair: Geir Dahl
	Ruben Hoeksma Decomposition Algorithm for the Single Machine Scheduling Polytope	Alessia Violin A Branch-and-Price for the Network Pricing Problem with Connected Toll Arcs	Borzou Rostami Improved Lower Bound for the Quadratic Minimum Spanning Tree Problem
	Vincent T'Kindt A constraint generation approach for the two-machine flow shop problem with jobs selection	Rafael Schouery The Envy-Free Pricing Problem and Unit-Demand Markets	Alexandre Salles Da Cunha Finding Totally Independent Spanning Trees with Linear Integer Programming
	Luís Florêncio A hybrid algorithm for the unrelated parallel machine scheduling problem with job splitting	Rui Zhang Engineering Diffusion on a Social Network at Minimum Cost	Markus Leitner A polyhedral study of the diameter constrained minimum spanning tree problem
10:45 - 11:00	Coffee Break: Basement Atrium		
11:00 - 12:15	**Session TB-I** **Rounting II** Chair: Angel Corberan	**Session TB-II** **Integer Linear Programming VI** Chair: Agostinho Agra	**Session TB-III** **Network Design II** Chair: Pedro Moura
	Ana Catarina Nunes The mixed capacitated arc routing problem with non-overlapping routes	Alexandre Freire An integer programming formulation for the Maximum k-Subset Intersection problem	Aurélien Questel Branch-and-Cut-and-Price using Stable Set polytope inequalities for the Capacitated-Ring-Star Problem
	Petrica Pop A novel approach for solving the Generalized Vehicle Routing Problem	Zacharie Ales An Extended Formulation for K-Partitioning	Julija Asmuss Adaptive Optimization of Bandwidth Resource Allocation for Virtual Networks
	Angel Corberan New results on the Generalized Directed Rural Postman Problem	Pedro Martins Mining biological networks using weighted cliques	Leonardo Taccari Maximum throughput network routing subject to fair flow allocation
12:15 - 14:00	Lunch (on your own)		
14:00 - 15:40	**Session TC-I** **Rounting III** Chair: Alain Quilliot	**Session TC-II** **Knapsack** Chair: Arie Koster	**Session TC-III** **Graphs II** Chair: Carlos Luz
	Pasquale Avella Cutting planes for Multi-Vehicle Inventory Routing Problems	Franklin Djeumou Fomeni A Cut-and-Branch Algorithm for the Quadratic Knapsack Problem	Mariana Escalante Lovász and Schrijver N_+-relaxation on web graphs
	Charlotte Vilhelmsen A Heuristic for the Tank Allocation Problem in Bulk Shipping	Michele Garraffa A hybrid heuristic approach based on a quadratic knapsack formulation for the Max-Mean Dispersion problem	Oliver Schaudt b-coloring is NP-hard on co-bipartite graphs and polytime solvable on tree-cographs
	Sophie Michel Planning of container transfers in a multimodal platform	Sagvan Saleh A fast large neighborhood search for disjunctively constrained knapsack problems	Carlos Luz A simplex like approach based on star sets for recognizing convex-QP adverse graphs
	Alain Quilliot Branch and Price for a Reliability Oriented DARP Model	Grit Claßen A Dynamic Program for the Multi-Band Robust Knapsack	
15:40 - 16:00	Coffee break: Basement Atrium		
17:00 - 19.00	Tour in Lisbon (meeting point at the hotel entrance)		
19:30	Dinner: Castelo S.Jorge - City Center		

Friday, 7 March, 2014

9:30 - 10:15	**Session FP**: room Miguel Ângelo II + III **Michel Balinski - Judge: Don't Vote!** Chair: Luís Gouveia		
10:15 - 10:30	Coffee Break: Basement Atrium		
10:30 - 12:10	**Session FB-I** **Transportation Routing** Chair: Ana Paias	**Session FB-II** **Integer Linear Programming VII** Chair: Janny Leung	**Session FB-III** **Polyhedra** Chair: Mourad Baiou
	Claudio Contardo Resource-based cycle elimination applied to the vehicle routing problem	Alain Quilliot Linear Arrangement Problems and Interval Graphs	Stefano Coniglio On the exact separation of rank inequalities for the stable set problem
	Martin Kidd State space reduced dynamic programming for the aircraft sequencing problem with constrained position shifting	Brian Curcio Linear Ordering Problem with Penalties	Markus Sinnl On the Asymmetric Connected Facility Location Polytope
	Pedro Munari Using an interior point branch-price-and-cut method for solving variants of the vehicle routing problem	Mathieu Lacroix Circuit and bond polytopes in series-parallel graphs	Mourad Baiou The dominating set polytope via facility location
	Marta Mesquita MIP-based heuristics for driver rostering	Janny Leung On the Mixed Odd Hole Inequality	
12:10 - 14:00	Lunch (on your own)		
14:00 - 15:15	**Session FC-I** **Stochastic** Chair: Rüdiger Schultz	**Session FC-II** **Integer Linear Programming VIII** Chair: Conceição Fonseca	**Session FC-III** **Trees III** Chair: Bernard Fortz
	Yohanes Kristianto A Multi-period Bi-level Stochastic Programming with Decision Dependent Uncertainty in Supply Chains	Kamel Zeltni Multi-objective Cuckoo Search with Leader Selection Strategies	Olaf Maurer Integer Programming Formulations for the Node-Weighted Group Steiner Tree Problem
	Mario Brcic Proactive Reactive Scheduling in Resource Constrained Projects with Flexibility and Quality Robustness Requirements	Sara Veronica Rodriguez-Sanchez A mixed integer linear program for planning and scheduling the meat production in a pork supply chain	Cristina Requejo Formulations and heuristic methods for the Weight-Constrained Minimum Spanning Tree Problem
	Dennis Weyland The Computational Complexity of Stochastic Optimization	Ismaila Abderhamane Ndiaye Multicriteria pedestrian evacuation plan for natural disasters with safety and duration	Martim Moniz Mathematical programming models for Traffic Engineering in Ethernet networks implementing the Multiple Spanning Tree Protocol
15:15 - 15:30	Coffee break: Basement Atrium		
15:30 - 16:45	**Session FD-I** **Graphs III** Chair: Ioannis Milis	**Session FD-II** **Integer Linear Programming IX** Chair: José Valério de Carvalho	**Session FD-III** **Network Design III** Chair: Vangelis Paschos
	Gilles Simonin Coupled-tasks in presence of bipartite compatibilities graphs	Dimitri Thomopulos Modeling Two-Dimensional Guillotine Problems via Integer Programming	Eduardo Álvarez-Miranda Vulnerability Assessment of Spatial Networks: Models and Solutions
	Dang Phuong Nguyen Stochastic Graph Partitioning	Marco Bender Maximum Generalized Assignment with Convex Costs	Ruben Becker On Min-Cost Flows in Planar Graphs
	Paolo Detti Solving Graph Partitioning problems arising in tagless cache management	José Valério de Carvalho Multidimensional dual-feasible functions and fast lower bounds for the vector packing problem	Hovhannes Harutyunyan Approximation Algorithm for the Broadcast Time in k-path Graph
17:00 - 17.30	Closing Session: room Miguel Ângelo II + III		