Program Overview

Sunday

10:00 - 12:00 Registration

12:00 - 14:00 Lunch (on your own)

14:00 - 14:15 Opening Session

14:15 - 15:00 SP: Plenary Session (page 20)

15:00 - 15:15 break

15:15 - 16:30 SC: Parallel Sessions (page 24)

16:30 - 16:50 Coffee break

16:50 - 18:30 SD: Parallel Sessions (page 28)

19:00 - 20:00 Welcome Reception

Monday

8:00 - 9:30 Registration

8:00 - 8:45 MP: Plenary Session (page 21)

8:45 - 9:00 break

9:00 - 10:15 MA: Parallel Sessions (page 34)

10:15 - 10:30 Coffee break

10:30 - 12:10 MB: Parallel Sessions (page 37)

12:10 - 14:00 Lunch (on your own)

14:00 - 15:40 MC: Parallel Sessions (page 41)

15:40 - 16:00 Coffee break

17:00 - 19:00 Lisbon Tour

19:30 - 22:00 Conference dinner

Tuesday

9:30 - 10:15	TP: Plenary Session (page 22)
10:15 - 10:30	Coffee break
10:30 - 12:10	TB: Parallel Sessions (page 46)
12:10 - 14:00	Lunch (on your own)
14:00 - 15:00	Doctoral Dissertation Session (page 58)
15:00 - 15:15	break
15:15 - 16:30	TC: Parallel Sessions (page 50)
16:30 - 16:45	Coffee break
16:45 - 18:00	TD: Parallel Sessions (page 53)
18:00 - 18:30	Closing Session and Dissertation Award Prize

Program Summary

Sunday, 2 March, 2014			
10:00 - 12:00	Registration: Registration desk (hall)		
12:00 - 14:00	Lunch (on your own)		
14:00 - 14:15	Opening Session: room Miguel Ângelo II		
14:15 - 15:00	**Session SP**: room Miguel Ângelo II **Martin Grötschel** **Optimization problems arising in FTTx-planning** Chair: Luís Gouveia		
15:00 - 15:15	break		
15:15 - 16:30	**Session SC-I** **Decompositions methods for network routing** Chair: Bernard Fortz	**Session SC-II** **Robust optimization I** Chair: Adam Ouorou	**Session SC-III** **Survivability networks I** Chair: Abdullah Konak
	Tiziano Parriani A study of trade-offs in decomposition approaches to multicommodity network flows	S. Raghavan Robust Optimization for the Connected Facility Location Problem	Ana Bautzer ILP formulations for a Steiner multi-ring network design problem with revenues
	Dimitri Papadimitriou Combined network design and routing optimization using distributed Benders decomposition	Walid Ben-Ameur Multipolar Routing	Pedro Patrício Lexicographical Minimization of Routing Hops in Hop-Constrained Node Survivable Networks
	Bernard Fortz Time-dependent combined network design and routing optimization	Adam Ouorou Robust models for LP with uncertain right hand side - applications to capacity assignment in telecommunications	Abdullah Konak Two-Edge Disjoint Survivable Network Design Problem with Relays: A Hybrid Genetic Algorithm and Lagrangian Heuristic Approach
16:30 - 16:50	Coffee break: Atrium		
16:50 - 18:30	**Session SD-I** **Traffic engineering** Chair: Stefano Coniglio	**Session SD-II** **Network trees I** Chair: S. Raghavan	**Session SD-III** **Optical transport networks** Chair: Amaro de Sousa
	Souad Ezzbady Contribution to Modeling and Maximizing Processing in a Network of Telecommunication	Pedro Moura Spanning Trees with variable degree bounds	Agostinho Agra Design of Optical Transport Networks: the Combined Traffic Grooming, Routing and Wavelength Assignment Problem
	Jūlija Asmuss On Fuzzy Logic Based Decision Making for Dynamically Adaptive Bandwidth Allocation	Cristina Requejo Inference of a routing network topology	Amal Benhamiche Branch-and-Cut algorithm for the Optical Multi-Band Network Design problem
	Carlos Martins Modelling the steering of international roaming traffic problem	Walid Ben-Ameur Design of networks with unicyclic connected components	Andreas Bley An exact algorithm for spectral assignment in flexible WDM grid optical networks
	Stefano Coniglio Bilevel optimization models for traffic engineering with elastic demands and fair flow allocation	S. Raghavan Local Search for the Reload Cost Spanning Tree Problem	Amaro de Sousa The Routing and Wavelength Assignment Problem in the Optical Transport Networks Design
19:00 - 20:00	Welcome Reception: Hotel bar		

Monday, 3 March, 2014

8:00 - 9:30	Registration: Registration desk (hall)	
8:00 - 8:45	**Session MP**: room Miguel Ângelo II **Thomas Bonald** **Bandwidth sharing models for the Internet** Chair: Adam Ouorou	
8:45 - 9:00	break	
9:00 - 10:15	**Session MA-I** **Multicommodity network routing** Chair: Eli Olinick	**Session MA-II** **Security and emergency** Chair: Sadan Kulturel-Konak
	Michal Pióro New Results on Multipath Routing	Bhawani Bhati A Location Privacy Preserving scheme for Routing in MANET Using Rough Sets
	Walid Ben-Ameur Efficient algorithms for the maximum concurrent flow problem	Michael Bartolacci An Optimization Model for Portable Base Stations in Disaster Planning and Management
	Eli Olinick Empirical Analysis of a Compact Formulation of the Network Design Problem	Sadan Kulturel-Konak A Bi-level Genetic Algorithm Approach for the Network Server Assignment Problem
10:15 - 10:30	Coffee break: Atrium	
10:30 - 12:10	**Session MB-I** **Network trees II** Chair: Maurício Resende	**Session MB-II** **Optical access networks** Chair: Axel Werner
	Alessandro Hill Optimal capacitated ring trees	Mateusz Żotkiewicz Large-scale FTTH network design
	Eric Gourdin Packing and Scheduling of Steiner Trees for Data Synchronization	Maria João Lopes Single PON network design with unconstrained splitting stages
	Martim Moniz Models for traffic engineering with multiple spanning tree protocols	Alejandro Arbelaez A Local Search Approach to Finding Distance-Constrained Disjoint Paths in Long-Reach Passive Optical Networks
	Maurício Resende A biased random-key genetic algorithm for a prize-collecting directed Steiner forest network design problem	Axel Werner Multicriteria optimization for optical access network planning
12:10 - 14:00	Lunch (on your own)	
14:00 - 15:40	**Session MC-I** **Reliability networks** Chair: Stefan Voß	**Session MC-II** **Economics and mobile applications** Chair: Paulo Cordeiro
	Eduardo Moreno Topological optimization of reliable networks under failure correlation	Kholoud Dorgham A Novel Dynamic Pricing Model for the Telecommunications Industry
	Robert Doverspike Performability Analysis of a Metro Area Cellular Network	Ramiro Sámano-Robles Network and economic trade-off performance regions of carrier sense multiple access protocols with cooperative diversity using multi-objective and financial portfolio optimization
	Filipa Carvalho Integer models for diameter-bounded clusters resilient to a link failure	Angele Hamel Models for Video-on-Demand Scheduling with Costs
	Stefan Voß New Algorithms for the Reliability Redundancy Allocation	Paulo Cordeiro HEVC Video Streaming Decoding Complexity Analysis
15:40 - 16:00	Coffee break: Atrium	
17:00 - 19:00	Lisbon Tour: Meeting point at the hotel Parking lot	
19:30 - 22:00	Conference Dinner	

Tuesday, 4 March, 2014

9:30 - 10:15	**Session TP**: room Miguel Ângelo II **Guy Leduc** **Machine learning-based algorithms to infer end-to-end network performance matrices** Chair: Bernard Fortz	
10:15 - 10:30	Coffee break: Atrium	
10:30 - 12:10	**Session TB-I** **Stochastic related problems** Chair: Michael Bartolacci	**Session TB-II** **Robust optimization II** Chair: Sara Mattia
	Gonçalo Jacinto Hop count performance analysis for the furthest and nearest routing protocols in sensor networks	Paolo Detti A Robust Optimization Model for Radio Resource Assignment in OFDMA Wireless Networks
	Yoshiaki Shikata Prioritized Limited Round-Robin System with its Performance Analysis	Jonad Pulaj A Hybrid Heuristic for Robust Multiperiod Network Design
	S. Raghavan An Inexact Sample Average Approximation Approach for the Stochastic Connected Facility Location Problem	Daniel Schmidt Solving a robust network design problem with simple polyhedral demand uncertainties
	Michael Bartolacci Buffer overflow simulation in self-similar queuing networks with finite buffer capacity	Sara Mattia The robust network loading problem with static routing
12:10 - 14:00	Lunch (on your own)	
14:00 - 15:00	**Doctoral Dissertation Competition**: room Miguel Ângelo II Chair: Robert Doverspike	
	Manuel Kutschka Robustness Concepts for Knapsack and Network Design Problems under Data Uncertainty	
	Faiz Hamid A Polyhedral Approach for Solving the Two-Facility Network Design Problem	
15:00 - 15:15	break	
15:15 - 16:30	**Session TC-I** **Energy aware routing** Chair: Bernardetta Addis	**Session TC-II** **Wireless networks** Chair: Alexandre Cunha
	Dorabella Santos Energy Efficient Routing for Telecommunication Networks with Multi-Period Traffic Demands	Artur Tomaszewski Design of Optical Wireless Networks with Elastic Traffic Flows
	Frank Pfeuffer Energy efficient network operation with a limited number of network configurations	Fabian Castaño Exact approaches for power aware configuration of wireless sensor networks
	Bernardetta Addis On the Energy Cost of Resiliency in IP Networks	Alexandre Cunha Models and heuristic for Integrating Sink Location, Density Control and Routing Problems in Wireless Sensor Networks
16:30 - 16:45	Coffee break: Atrium	
16:45 - 18:00	**Session TD-I** **Survivability networks II** Chair: Walid Ben-Ameur	**Session TD-II** **Energy aware network design** Chair: Arie Koster
	Bin Hu Algorithms for Link Protection Problems in Networks	Bernard Gendron A Branch and Benders Cut Approach for Nonlinear Location-Design in Green Wireless Local Area Networks
	Yoann Fouquet An optimization model for communication networks resilient to partial multiple link failures	Martin Tieves Network Design with Compression I: A Polyhedral Study
	Walid Ben-Ameur Failure-disjoint paths	Arie Koster Network Design with Compression II: A Complexity Study
18:00 - 18:30	Closing session and Dissertation Prize Award : Miguel Ângelo II	