May 5, 2010 (Wednesday)

Chair: B. Gendron - Room EV2.204/238/260

9am - 10am — Keynote Speaker - Martin Groetschel - Survivable Multi-Layer Multi-Level Network Design

10am - 10:30am — **Coffee break - Room EV2.204/238/260**

Parallel Sessions

	p-Cycles	Optical Networks	Network Management and Traffic
	Chair: S. Sebbah Room EV2.204/238/260	Chair: S. Orlowski Room EV2.184	Chair: M. Coates Room EV3.309
10:30am - 11am	**Algorithmic Approaches for Efficient Enumeration of Candidate Node-Encircling p-Cycles** --- A.Z. Kasem and J. Doucette	**Survivable Network Design under Dual Failures** --- H. Luss, M. Eiger and D. Shallcross	**Chirp-Based Network-Wide Probabilistic Available Bandwidth Estimation** --- F. Thouin, M. Rabbat and M. Coates
11am - 11:30am	**Design of Segment p-Cycles in Survivable WDM Mesh Networks** --- B. Jaumard, H. Li and S. Sebbah	**Availability based Design Tool for Multi-Granular WDM Optical Networks** --- A. Eshoul and H.T. Mouftah	**A Recoverable Robust Knapsack Problem** --- C. Büsing, A.M.C.A. Koster and M. Kutschka
11:30am - 12pm	**Stability of p-Cycles under Dynamic Traffic** --- A. Metnani and B. Jaumard	**Saving Energy in IP-over-WDM Networks by Switching off Line Cards in Low-Demand Scenarios** --- F. Idzikowski, C. Raack, S. Orlowski, H. Woesner and A. Wolisz	**Wavelet-Based Traffic Matrix Modeling** --- J. Wang and M. Rabbat

Chair: E. Olinick - Room EV2.204/238/260

2pm - 3pm — Keynote Speaker - Antonio Capone - From Pre-Planned to Self-Organizing and Green Wireless Networks

3pm - 3:30pm — **Coffee break - Room EV2.204/238/260**

Parallel Sessions

	PhD Thesis Award	Survivable Networks I	Telecom Location Issues I	Wireless Networks I
	Chair: E. Olinick Room EV2.204/238/260	Chair: A. Koster Room EV2.184	Chair: R. Raghavan Room EV3.309	Chair: M. St Hilaire Room EV11.119
3:30pm - 4pm	**Pure 0-1 Programming Approaches to Wireless Network Design** --- F. D'Andreagiovanni	**ILP and Scalable Heuristics for Dimensioning Resilient Optical Grids** --- J. Buysse, C. Develder, M. De Leenheer and B. Dhoedt	**Hub Problems with Bounded Path Lengths** --- S. Elloumi and H. Yaman	**Meta-heuristics for (Re-) Channel Assignment Problem in Multi-Radio Wireless Mesh Networks** --- J. Rezgui, A. Hafid, R. Ben Ali and M. Gendreau
4pm - 4:30pm	**Resource Management for Large Scale Unreliable Distributed Systems** --- Y. Kim	**Designing Survivable IP-over-Optical Networks** --- D. Gade, S. Sen, Y. Yuan, R. Doverspike and G. Choudhury	**Hop Constrained Connected Facility Location** --- S. Gollowitzer and I. Ljubic	**Frequency Management in Radio Military Networks** --- M. Dib, A.Caminada and H. Mabed
4:30pm - 5pm	**Differentiated Quality-of-Recovery and Quality-of-Protection in Survivable WDM Mesh Networks** --- S. Sebbah	**Network Design under Demand Uncertainties** --- A. Koster, M. Kutschka and C. Raack	**The Stochastic Connected Facility Location Problem** --- M.G. Bardossy and R. Raghavan	**On the Planning of all IP UMTS Release 4.0 Networks with Realistic Traffic** --- M.R. Pasandideh and M. St Hilaire

5:30pm - 7pm — INFORMS Telecom Reception - Room EV2.204/238/260

May 6, 2010 (Thursday)

Chair: M. Gendreau - Room EV2.204/238/260

9am - 10am: **Keynote Speaker - Mauricio Resende - Application of Metaheuristics in Telecommunications**

10am - 10:30am: **Coffee break - Room EV2.204/238/260**

Parallel Sessions

	Survivable Networks II	Wireless Networks II	Telecom Location Issues II	Network Design I
	Chair: F. Huc Room EV2.204/238/260	Chair: J. Hu Room EV2.184	Chair: T. Fevens Room EV3.309	Chair: M. Gendreau Room EV11.119
10:30am - 11am	**A New Framework for Efficient Shared Segment Protection Scheme for WDM Networks** --- B. Jaumard, N.N. Bhuiyan, S. Sebbah, F. Huc and D. Coudert	**Coding-Aware Routing and Scheduling in WiMAX-based Mesh Networks: A Cross-Layer Design Approach** --- J. El-Najjar, B. Jaumard and C. Assi	**The Mobile Facility Location Problem** --- R. Halper and S. Raghavan	**Hop-Constrained MPLS over WDM Network Design with a Maximum Number of Node-Disjoint Paths** --- L. Gouveia, P. Patricio and A. de Sousa
11am - 11:30am	**Submodular Bandwidth Packing** --- A.M.C.A. Koster and M. Kutschka	**Model based Binary Decision Diagrams for Complex Networks Reliability Optimization** --- M.-L. Rebaiaia and D. Aït-Kadi	**MIP Models for Connected Facility Location: A Theoretical and Computational Study** --- I. Ljubc and S. Gollowitzer	**A New Linear Programming Formulation for the Maximum Concurrent Flow Problem** --- J. Kratz, D. Matula and E. Olinick
11:30am - 12pm	**Planning of Shared Backup Path Protection** --- M. Kiese , T. Stidsen, S. Spoorendonkz and M. Zachariasen	**Find Perturbation Zone in Telecommunication Network** --- J. Hu, A. Caminada and P. Galinier	**Parabolic Yao-type Geometric Spanners in Wireless Ad-hoc Networks** --- E. Artoun and T. Fevens	**A Column Generation Algorithm for the Resilient Multi-level Hop-Constrained Network Design** --- F. Souza, M. Gendreau and G. Mateus

Chair: R. Doverspike - Room EV2.204/238/260

2pm - 3pm: **Keynote Speaker - Dominic Schupke - Integrating Electrical and Optical Networks**

3pm - 3:30pm: **Coffee break - Room EV2.204/238/260**

Parallel Sessions

	Industry Telecom Research	Network Design - II	Survivable Networks III	Wireless Networks III
	Chair: R. Doverspike Room EV2.204/238/260	Chair: B. Gendron Room EV2.184	Chair: J. Rak Room EV3.309	Chair: B. Kantarci Room EV11.119
3:30pm - 4pm	**Designing an IP Link Topology for a Metro Area Backbone Network** --- J.G. Klincewicz and D.F. Lynch	**Spanning Trees with Node Degree Dependent Costs and Knapsack Reformulations** --- L. Gouveia and P. Moura	**Models for Optimal Survivable Routing with a Minimum Number of Hops: Comparing Disaggregated with Aggregated Models** --- L. Gouveia, P. Patricio and A. de Sousa	**Efficient Packing of Content Multicast Trees Extended Abstract** --- S. Bessler, LF. Lang and N. Musliu
4pm - 4:30pm	**Availability Analysis of an Ethernet Backhaul Network for Cellular Traffic** --- K.N. Oiknomou	**Optimization of Link Load Balancing in Multiple Spanning Tree Routing Networks** --- D. Santos, A. de Souza, F. Alvelos, M. Dzida and M. Pioro	**Quality-of-Recovery Differentiation in Survivable WDM Networks** --- S. Sebbah and B. Jaumard	**On Geographical Placement of ONUs in Survivable Passive Optical Networks for Long-Reach Access** --- B. Kantarci and H. Mouftah
4:30pm - 5pm	**Physically-Diverse Routing in Heterogeneous Optical Networks** --- D. Xu, G. Li, A. Chiu, D. Wang, R. Doverspike, M. Gerhardstein and C. Dailey	**Reformulations and Decomposition for Multicommodity Capacitated Network Design** --- B. Gendron and A. Frangioni	**A New Approach to Inter-Layer Sharing Providing Differentiated Protection Services in Survivable IP-MPLS/WDM Networks** --- J. Rak	**VRAC: Geographic Routing in Large Sensor Network without 2D Coordinates** --- F. Huc and A. Jarry
5pm - 5:30pm	**Filterless Networks fr Emerging Applications: A Comparison Analysis with Optical Switching and Light-Trail Networks** --- C. Tremblay, G. Mantelet, M.P. Bélanger and D. Plant			

7pm - 10pm: **INFORMS Telecom Banquet - Montefiore Club**

May 7, 2010 (Friday)

9am - 10am

Chair: B. Jaumard - Room EV2.204/238/260

Keynote Speaker - George Rouskas - RWA in WDM Rings: An Efficient ILP Formulation Based on Maximal Independent Set Decomposition

10am - 10:30am

Coffee break - Room EV2.204/238/260

Parallel Sessions

Network Design III	Wireless Networks IV	OBS Networks
Chair: T. Stidsen Room EV2.204/238/260	Chair: Y. Di Room EV2.184	Chair: A. Hafid Room EV3.309
10:30am - 11am **Combined Topology and Routing Optimization for Hierarchical Networks** --- A. Bley, N. Forck and M. Martens	**New Insights into the Reliability Analysis and Performances Evaluation of a Provincial Radiotelecommunication Network** --- M.-L. Rebaiaia and D. Aït-Kadi	**RWA-OBS Description and Solution** --- T. Coutelen and B. Jaumard
11am - 11:30am **Hierarchical Two-Layer Ring Network Design** --- S. Spoorendonk, T. Stidsen and M. K. Jepsen	**Antenna Configuration Optimization in HSPA Radio Network Planning** --- I. Siomina, F. Gunnarsson and Y. Di	**RWA and Synchronization to Provide Absolute QoS for OBS Networks** --- A. Belbekkouche, A. Hafid, M. Gendreau and M. Tagmouti

11:30am - 12pm

Chair: E. Olinick - Room EV2.204/238/260

2010 INFORMS Telecom Dissertation Awards

12pm - 1pm

Chair: A. Awasthi - Room EV2.204/238/260

Keynote Speaker - Pragasen Pillay - Current Research in Energy Efficiency and Renewable Energy