

9th INFORMS Telecommunications Conference

Thursday, 27 March 2008

8:00	Breakfast : N. Wing, 2nd Fl. Lobby			
9:00	Session TA1 : 2333AB Telecommunication Systems Chair: M. Kiese	Session TA2 : 2333CD Network Economics I Chair: N. Stier-Moses	Session TA3 : 1335 Wireless Networks I Chair: H. Luss	Session TA4 : 1336 Network Design I Chair: L. Gouveia
	H. Qian, S. Dispensa, D. Medhi	A. Giovanardi, A. Lodi, E. Malaguti, and N. Stier-Moses	H. Luss and W. Chen	I. Ljubic
	Stochastic Modeling of Request Denial in the Presence of Latency and User-Allocation Strategy in an Agent-Based VPN Architecture	Efficient and Fair Routing for Ad-Hoc Wireless Telecommunication Networks	Optimal Multi-Chanel Assignments in Vehicular Ad-Hoc Networks	Solving Connected Facility Location to Provable Optimality
	C. Hartmann, M. Kiese, and R. Vilzmann	V. Mirrokni, V. Bahl, M. Hajighayi, K. Jain, L. Qiu, A. Saberi	L. Chen and D. Yuan	G. Bardossy and S. Raghavan
	Optimizing the Node Degree in Wireless Multihop Networks with Single-Lobe Beamforming	Market Equilibria and Distributed Load Balancing in Wireless LAN	A Minimum-Power Covering Problem with Overlap Constraint For Cellular Network Design	Dual-ascet for the Connected Facility Location Problem
	H. Eisner	H. Le Cadre and M. Bouhtou	S. Ciftlikli, O. Ercetin, and K. Bulbul	L. Gouveia, P. Patricio, and A. de Sousa
	Toward Measres of Interoperability and Integrability for System Architectures	Dynamic Bandwidth Reservation in a Virtual Private Network under Uncertain Traffic	Distributed Algorithms for Delay Bounded Minimum Energy Wireless Broadcasting	Optimal Survivable Routing with a Small Number of Hops
			V. Edla, S. Rizvi, and A. Riasat	
			A New Software Based Approach for Minimizing interference IN RFID applications	
10:30	Coffee Break : N. Wing, 2nd Fl. Lobby			
11:00	TB: Plenary and Opening Session			
	Wayne Grover, On the Role of O.R. in Telecommunication Networks and a Framework for "Online" O.R. in Dynamic Networks			
12:15	Luncheon : S. Wing, 3rd Fl. Lobby			
1:30	Session TC1 : 2333AB Network Design II Chair: A. Koster	Session TC2 : 2333CD Wireless and Broadband Networks Chair: S. Salman	Session TC3 : 1335 IP Networks Chair: D. Alderson	Session TC4 :1336 Doctoral Dissertation Competition I Chair: A. Balakrishnan
	M. Kiese and T. Stidsen	S. Salman, C. Atici, V. Dedeoglu, and M. Sunay	D. Alderson, T. Barkley, and M. Carlyle	A. Bley
	A general model for path-based protection methods	System Optimization for Efficient Broadcasting in Wireless Ad Hoc Networks	Attacker-Defender Models of IP-Based Networks	Routing and Capacity Optimization for IP Networks
	A. Koster, S. Orłowski, C. Raack, G. Baier, and T. Engel	K. Jang, Y. Lee, G. Park, and H. Yun	W. Ehrlich, K. Futamura, and D. Liu	R. Hampshire
	Single-Layer Cuts for Multi-Layer Network Design Problems	A Hierarchical Location-Allocation Problem In Designing Broadband Convergence Access Networks	An Entropy Based Method to Detect Spoofed Denial of Service (DoS) Attacks	Dynamic Queueing Models for the Operations Management of Communication Services
	S. Chamberland	T. Koch, A. Eisenblätter, and U. Türke	V. Edla and S. Rizvi	I. Siomina
	Incorporating the Points of Presence within the Two-Level Network Design Problem	Pixel Based Automatic Frequency Planning in GSM networks	Repu-Trust Algorithm: An efficient Way for Minimizing The Malicious Behavior of Mobile Nodes in Ad Hoc Networks	Radio Network Planning and Resource Optimization: Mathematical Models and Algorithms for UMTS, WLANS, and Ad Hoc Networks
3:00	Coffee Break : N. Wing, 2nd Fl. Lobby			
3:30	Session TD1 : 2333AB Network Design III Chair: B. Golden	Session TD2 : 2333CD Integer Programming and Telecommunications I Chair: B. Jaumard	Session TD3 : 1335 Networking I Chair: E. Rosenberg	Session TD4 : 1336 Doctoral Dissertation Competition II Chair: A. Balakrishnan
	J. Silberholz, N. Cornick, A. Hall, R. Sahajpal, Y. Chen, I. Yahav, and B. Golden	M. Chimani, M. Kandyba, I. Ljubic, and P. Mutzel	E. Rosenberg	J. S. H. van Leeuwen
	Comparison of Heuristics for Solving the GMLST Problem	Efficient exact algorithms for {0,1,2}-Survivable Network Design problems with node-connectivity requirements	Error Bounds for Hierarchical Routing	Multi-Access, Reservations and Queues
	W. Mennell, B. Golden, and E. Wasil	C. Rocha and B. Jaumard	D. Rice and G. Wright	A. Wierman
	Solving the Close Enough Traveling Salesman Problem	Revisiting p-cycles/ FIPP p-cycles vs. Shared Link/ Path Protection	Encouraging the Growth of Distributed Transient Networks with Increased Resistance to the Spread of Malicious Code	Scheduling for Today's Systems: Bridging Theory and Practice
	S. Voss, R. Cerulli, and M. Gentili	C. Requejo, A. Agra, and L. Gouveia	J. Davies and V. Grout	
	Mathematical Models for the Minimum Labeling Spanning Tree Problem	Extended formulations for the cardinality-constrained subtree of a tree problem	Restructuring Rules in ACLs to Allow Dynamic Optimisation	
			V. Edla, S. Rizvi, and A. Riasat	
			Bit Error Rate (BER) Analysis of Synchronous DS-CDMA Multi-user Receivers	
6:00	Dupont Circle Bus Trip Leaves from UMUC Marriott			

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Friday, 28 March 2008

8:00	Breakfast : N. Wing, 2nd Fl. Lobby				
9:00	Session FA1 : 2333AB Statistical Models Chair: W. Jank	Session FA2 : 2333CD Network Design IV Chair: S. Raghavan	Session FA3 : 1335 Integer Programming and Telecommunications II Chair: F. Vanderbeck	Session FA4 : 1336 Networking II Chair: M. Resende	
	I. Yahav, W. Jank, and D. Malter On the Existence of E-Loyalty Networks in eBay Auctions and Their Structure	S. Chen, I. Ljubic, and S. Raghavan Generalized Regenerator Location Problem	D.L. Truong and B. Jaumard A Map-and-Route Approach for Segment Shared Protection in Multi-Domain Networks	M. Resende, R. Reis, M. Ritt, and L. Buriol A Memetic Algorithm for Optimizing Routing in Networks Using Exponential Flow Splitting	
	E. Lawrence Some Advances in Tomographic Network Modeling	S. Kulterel-Konak and A. Konak A Local Search Hybrid Genetic Algorithm Approach to the Network Design Problem with Relay Stations	L. Gouveia and M. Corte-Real A node rooted flow model for the local access network expansion problem	A. Arulsevan, C. Commander, and P. Pardalos Detecting Critical Nodes in Sparse Graphs	
	G. Michailidis and Mark Culp Graph-based Semi-supervised Learning	P. Moura and L. Gouveia The Prize-Collecting Steiner Tree Problem with Node-Dependent Costs	F. Vanderbeck, B. Vignac, and B. Jaumard A Nested Decomposition Approach to an Optical Network Design Problem	M. Rashid, S. Rizvi, and A. Riasat A New Methodology for Efficient Traffic Management in ATM Networks for ATM Switching Systems	
10:30	Coffee Break, N. Wing, 2nd Fl. Lobby				
11:00	Plenary Session FB: 1524 Chris Volinsky, What Data Mining Isn't				
12:15	Luncheon : S. Wing, 3rd Fl. Lobby				
1:30	Session FC1 : 2333AB Networking III Chair: N. Gautam	Session FC2 : 2333CD Routing and Resource Management in Telecommunications Networks Chair: A. Vakhutinsky	Session FC3 : 1335 Stochastic Models Chair: S. Weber	Session FC4 : 1336 Network Design V Chair: S. Kucukyavuz	Session FC5 : 1333 Network Economics II Chair: R. Day
	N. Gautam Performance Analysis based on Multi-class Fluid-flow Models for Resource Sharing Queues	R. Egging and R. Borndorfer A Dynamic Capacitated Coverage location Problem with Repositioning Costs and Penalties for Lost Demand	N. Bolia and V. Kulkarni Index Policies for Resource Allocation in Wireless Networks	Q. Botton, B. Fortz, and L. Gouveia The K-Edge 3-Hop Constrained Network Design Polyhedron	A. Gaivoronski and J. Zoric Evaluation and Design of Business Models for Collaborative Provision of Advanced Mobile Data Services: A Portfolio Theory Approach
	A. Konak Using Kriging to Estimate Network Coverage for Wireless Local Area Networks	R. Halper and S. Raghavan The Mobile Facility Routing Problem	U. Ayesta, A. Piunovskiy, and Y. Zhang Fluid Model of an Internet Router Under the MIMD Control Scheme	C. Raack and A. Koster Two-layer cut inequalities	A. Grigoriev, J. van Loon, and M. Uetz Price regulations for roaming in the EU
	S. Rizvi, M. Rashid, and A. Riasat A New Efficient 3-Phrase Algorithm for Performing Capacity Analysis of Mobile Ad Hoc Networks (MANET)	E. Borowsky and W. Lichtenstein Avoiding traffic jams on the internet	S. Weber Communication Constraints and Ad Hoc Scheduling	B. Fortz, M. Labbe, and M. Poss Constraints generation for solving a bilayer network design problem	K. Hoffman, D. Menon, and S. van den Heever A Package Bidding Tool for the FCC's Spectrum Auctions, and its Effect on Auction Outcomes
	B. Vallamsundar and K. Ponnambalam Congestion Control for Adaptive Satellite Communication Systems Using Intelligent Systems	Z. Shen and L. Poplawski Set Reflector Load Balancing	M. Fischer, D. Masi, and J. Shortle On the Relationship between the Low Latency Queueing System and the Non-Preemption Priority Queueing Model	S. Kucukyavuz On Fixed-Charge Network Flow Polyhedra	R. Day and P. Cramton Combinatorial Auction Design for the U.K. Spectrum License Market
		M. Torres and A. Vakhutinsky Internet Service Resource Optimization	S. Chamberland Access Network Design and Evolution		Y. Lee On performance limits of secondary user in opportunistic spectrum access
3:30	Coffee Break : N. Wing, 2nd Fl. Lobby				
4:00	Plenary Session FD: 1524 Peter Cramton, Spectrum Auction Design				
5:00	Break				
6:00	Cocktail Hour and Live Jazz: South Atrium, 1st Floor				
7:00	Dinner Banquet and Live Jazz : South Atrium, 1st Floor				

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Saturday, 29 March 2008

7:30	Breakfast : N. Wing, 2nd Fl. Lobby			
8:30	Session SA1 : 2333AB Network Design and Performability Analysis in Commercial Networks Chair: R. Doverspike	Session SA2 : 2333CD Network Economics III Chair: R. Randhawa	Session SA3 : 1335 Networking IV Chair: D. Masi	Session SA4 : 1336 Network Design Workshop I Chair: S. Voss
	D. Xu, M. Chiang, and J. Rexford On the Optimality of Link-State Routing Protocols	A. Bassamboo, S. Kumar, and R. Randhawa Dynamics of New Product Introduction in Closed Rental Systems	D. Masi, M. Fischer, and D. Garbin Video Frame Size Distribution Analysis	M. Resende Metaheuristics in Network Design
	G. Li, D. Wang, and R. Doverspike A Simple and Efficient Restoration Method in IPTV Networks	A. Gupta and W. Liu Design and Pricing of Bandwidth Forward Contracts for Time Scalability in the Contract Switching Paradigm	J. Chheda and A. Pendharkar Simulation Model for Mobile Sensor Networks with Mobile Relays: Performance Analysis	L. Gouveia Several Views on Reformulation by Discretization
	K. Oikonomou and R. Sinha A Framework for Network Performability Evaluation	L. Cricelli, F. Di Pillo, M. Gastaldi, and N. Levialdi Ghiron Mobile Networks Competition and Aymmetric Regulation of Termination Charges	A. Vekaria and S. Rizvi A New Efficient Routing Approach for Mobile Ad Hoc Networks (MANET)	
	R. Sinha, R. Doverspike, G. Li, K Oikonomou, K. Ramakrishnan, and D. Wang Performability Analysis and Design of Multicast IPTV Distribution	J. Bailey, J. Nagel, and S. Raghavan Ex-Post Internet Charging	Y. Xiong, B. Golden, E. Wasil, and S. Chen The Label-Constrained Minimum Spanning Tree Problem	
10:00	Coffee Break : N. Wing, 2nd Fl. Lobby			
10:30	Session SB1 : 2333AB Networking V Chair: T. Matis	Session SB2 : 2333CD Data Mining, Data Delivery, and Learning Chair: L. Raschid	Session SB3 : 1335 Network Economics IV Chair: H. Ibrahim	Session SB4 : 1336 Network Design Workshop II Chair: E. Olinick
	M. Rashid, S. Rizvi, and A. Riasat A New Methodology for an Efficient Congestion Control in High Performance Packet Switching Networks	W. Chang and J. May A Classification Basis for Association Rules	H. Ibrahim An Analytical Model for Telecommunication Network Availability Management	Arie Koster Polyhedral Combinatorics to Solve Network Design Problems
	A. Phillips and T. Matis Optimizing Maintenance Activities in Ad-hoc Networks	J. Mulvey, H. Kaya, and F. Vannerson An Application of Statistical Learning Thoery to Soybean Yield Modeling	H. Guo, S. Bandyopadhyay, H. Cheng The Impact of Net Neutrality on Broadband Penetration	Aravind Srinivasan Network Design and Optimization in Wireless Networking
	Y. Shim, S. Gabriel, S. Milner, and C. Davis Topology Control in a Free Space Optical Network	J. Mulvey and M. Bilgili Discovering Economic Regimes and their Application in Stochastic Programming Models	P. Sastry Identifying Leaders and Laggards - A Method and application to U.S. Local Telephone Companies	
		L. Raschid, A. Gal, and H. Roitman ProMo - A Scalable and Efficient Framework for Online Data Delivery		

Note: The Network Design Workshop (SA4 and SB4) will take place in Room 1336 from 8:30 am to 12:30 pm with a coffee break from 10:15-10:45 am