

The Program of COCOA2009

Registration Day of June 9

At the lobby	14:00–19:00	<i>Registration Package: Bags, Proceedings, badges, programs, notebooks, ball pens, receipts of registration fee, reception/lunch/banquet/tour tickets, local maps</i>
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Morning Sessions of June 10

Sessions/Chairs/Time		Titles of Talks / Speakers and Authors
Plenary session Xiaodong Hu	09:00-10:00	Optimization Problems in Under Water Sensor Networks Ding-Zhu Du , University of Texas at Dallas, USA Abstract: Under water sensor network is an important research direction in computer science. There are many interesting optimization problems regarding its design, routing and applications. In this talk, I'm going to introduce some new research works done by our research group at University of Texas at Dallas, including Donghyun Kim, James Willson, Nassim Sohaee and Weili Wu.
Tea Break	10:00-10:20	At the 1 st floor
Session A1	10:20-10:45	Linear-Time Algorithm for Computing the Most Reliable Source on a Tree Wei Ding , Guoliang Xue
Network Algorithms	10:45-11:10	A 5/3-Approximation Algorithm for Joint Replenishment with Deadlines Tim Nonner , Alexander Souza
Guohui Lin	11:10-11:35	A PTAS for Node-Weighted Steiner Tree in Unit Disk Graphs X. Li, X. Xu, F. Zou, H. Du, P. Wan, Y. Wang, Weili Wu
	11:35-12:00	Fault-Tolerant Routing: k -Inconnected Many-to-One Routing in Wireless Networks Deying Li , Qinghua Zhu, Huiqiang Yang
Session B1	10:20-10:45	On Open Rectangle-of-Influence Drawings of Planar Graphs Huaming Zhang , Milind Vaidya
Computational Geometry	10:45-11:10	Variable-Size Rectangle Covering Francis Y.L. Chin , Hing-Fung Ting, Yong Zhang
Rudolf Fleischer	11:10-11:35	On-Line Multiple-Strip Packing Deshi Ye , Xin Han, Guochuan Zhang
	11:35-12:00	A Kind of n -Vehicles Exploration Problem Xiaoya Li , Jinchuan Cui
Lunch	12:00-13:00	Lunch at the 2 nd floor (lunch-tickets are needed)

Afternoon Sessions of June 10

Sessions/Chairs/Time		Titles of Talks / Speakers and Authors
Session A2	14:00-14:25	DNA Library Screening, Pooling Design and Unitary Suogang Gao , Zengti Li, Jiangchen Yu, Xiaofeng Gao, Weili Wu
Bioinformatics	14:25-14:50	Improved Algorithms for the Gene Team Problem Biing-Feng Wang, Shang-Ju Liu, Chien-Hsin Lin

Guohui Lin	14:50-15:15	Linear Coherent Bi-cluster Discovery via Line Detection and Sample Majority Voting <i>Yi Shi, Zhipeng Cai, Guohui Lin, Dale Schuurmans</i>
	15:15-15:40	Matching Techniques Ride to Rescue OLED Displays <i>Andreas Karrenbauer</i>
Session B2 Graph Theory Zhao Zhang	14:00-14:25	On 3-edge-connected Supereulerian Graphs <i>Hong-Jian Lai, Hao Li, Yehong Shao, Mingquan Zhan</i>
	14:25-14:50	A Note on n-Critical Bipartite Graphs and its Application <i>Yueping Li, Zhe Nie</i>
	14:50-15:15	A Note on Edge Choosability and Degeneracy of Planar Graphs <i>Baoyindureng Wu, Xinhui An</i>
	15:15-15:40	A Condition for the Forcing Number Equal to the Minimum Number of Trailing Vertices <i>Hongwei Wang</i>
Tea Break	15:40-16:00	At the 1 st floor
Session A3 Combinatorics and Game Theory Yinfeng Xu	16:00-16:25	Computing the Transitive Closure of a Union of Affine Integer Tuple Relations <i>Anna Beletska, Denis Barthou, Włodzimierz Bielecki, Albert Cohen</i>
	16:25-16:50	Generalized Russian Cards Problem <i>Chen Yang, Zhenhua Duan</i>
	16:50-17:15	Improved Bounds for Facility Location Games with Fair Cost Allocation <i>Thomas Dueholm Hansen, Orestis A. Telelis</i>
	17:15-17:40	A Cost-Sharing Method for the Soft-Capacitated Economic Lot-Sizing Game <i>Ruichun Yang, Zhen Wang, Dachuan Xu</i>
Session B3 Network and Graph Problems Bethany Chan	16:00-16:25	Size-Constrained Tree Partitioning for the Multicast k-Tree Routing Problem <i>Zhipeng Cai, Randy Goebel, Guohui Lin</i>
	16:25-16:50	On Disjoint Shortest Paths Routing on the Hypercube <i>Eddie Cheng, Shuhong Gao, Ke Qiu, Zhizhang Shen</i>
	16:50-17:15	On Integrity of Harary Graphs <i>Fengwei Li, Qingfang Ye, Baohuai Sheng</i>
	17:15-17:40	Minimum Energy Broadcast Routing in Ad Hoc and Sensor Networks <i>Zheng Li, Deying Li</i>
Banquet	18:30-20:00	Banquet at the 2 nd floor (banquet-tickets are needed)

Morning Sessions of June 11

Sessions/Chairs/Time		Titles of Talks / Speakers and Authors
Session A4 Graph Algorithms Yuehua Bu	08:20-08:45	Two-Level Heaps: a New Structure with Applications to the Shortest Path Problem <i>K. Subramani, Kamesh Madduri (Rudolf Fleischer will present the paper)</i>
	08:45-09:10	On Construction of Almost-Ramanujan Graphs <i>He Sun, Hong Zhu</i>
	09:10-09:35	A $2\log_2(n)$ -Approximation Algorithm for Directed Tour Cover <i>Viet Hung Nguyen</i>
	09:35-10:00	Approximation Algorithm for Max 3-Section Using Complex Semidefinite Programming <i>Ai-fan Ling</i>
Session B4 Online Problems	08:20-08:45	A Mathematical Programming Approach for Online Hierarchical Scheduling <i>Zhiyi Tan, An Zhang</i>
	08:45-09:10	Optimal Algorithms for the Online Time Series Search Problem <i>Yinfeng Xu, Wenming Zhang, Feifeng Zheng</i>

Rudolf Fleischer	09:10-09:35	A Note on Online Scheduling for Jobs with Arbitrary Release Times <i>Jihuan Ding, Guochuan Zhang</i>
	09:35-10:00	A Risk-Reward Competitive Analysis for the Newsboy Problem with Range Information <i>Guiqing Zhang, Yinfeng Xu</i>
Tea Break	10:00-10:20	At the 1 st floor
Session A5 Network (I) Zhao Zhang	10:20-10:45	A Branch-and-Cut Algorithm for the Minimum Energy Symmetric Connectivity Problem <i>Xiangyong Li, Y.P. Aneja</i>
	10:45-11:10	Deterministically Estimating Data Stream Frequencies <i>Sumit Ganguly</i>
	11:10-11:35	A New Design Approach for Rearrangeable Multicast Switching Networks <i>Hongbing Fan, Yu-Liang Wu</i>
	11:35-12:00	Approximating the Multicast Traffic Grooming Problem in SONET/WDM Rings <i>Jiguo Yu, Suxia Cui, Guanghui Wang</i>
Session B5 Scheduling (I) Xujin Chen	10:20-10:45	Makespan Minimization with Machine Availability Constraints <i>Bin Fu, Yumei Huo, Hairong Zhao</i>
	10:45-11:10	Roulette Wheel Graph Colouring for Solving Examination Timetabling Problems <i>Nasser R. Sabar, Masri Ayob, Graham Kendall, Rong Qu</i>
	11:10-11:35	Optimal Semi-Online Algorithm for Scheduling on a Batch Processing Machine <i>Ming Liu, Yinfeng Xu, Chengbin Chu, Lu Wang</i>
	11:35-12:00	Integrated Production and Delivery Scheduling with Disjoint Windows <i>Yumei Huo, Joseph Y-T. Leung, Xin Wang</i>
Lunch	12:00-13:00	Lunch (lunch-tickets are needed)

Afternoon Sessions of June 11

Sessions/Chairs/Time		Titles of Talks / Speakers and Authors
Session A6 Network (II) Xiaodong Hu	14:00-14:25	An Algorithm with Better Approximation Ratio for Multicast Traffic in SONET Rings <i>Jiguo Yu, Suxia Cui, Guanghui Wang</i>
	14:25-14:50	Infinite Family from Each Vertex k-Critical Graph without Any Critical Edge <i>Jixing Wang</i>
	14:50-15:15	Effects of Delayed Cell-Lysis in a Mathematical Model of Host Pathogen <i>Biplab Chattopadhyay, Priti Kumar Roy, and Dipak Kesh</i>
	15:15-15:40	Recoverable Robust Timetables on Trees <i>Gianlorenzo D'Angelo, Gabriele Di Stefano, Alfredo Navarra, Cristina M. Pinotti</i>
Session B6 Scheduling (II) Yinfeng Xu	14:00-14:25	Scheduling Problems in Cross Docking <i>Chen Rongjun, Baoqiang Fan, Guo-Chun Tang</i>
	14:25-14:50	Bicriteria Scheduling Jobs on a Single-Machine with Inventory Operations <i>Baoqiang Fan, Rongjun Chen, Guo-Chun Tang</i>
	14:50-15:15	Approximation Algorithms for Minimizing the Weighted Number of Tardy Jobs <i>Jianfeng Ren, Yuzhong Zhang, Xianzhao Zhang, Sun Guo</i>
	15:15-15:40	Scheduling with Rejection to Minimize the Makespan <i>Yuzhong Zhang, Jianfeng Ren, Chengfei Wang</i>
Cultural program	17:30-20:00	Gather at the lobby and then have dinner at "Native Place of Hui Merchant Restaurant" outside the hotel enjoying typical food and performance at Huangshan.

One-Day Tour of June 12
(One-day-tour-tickets are needed)

Time		Activities
Morning	07:30-08:30	Meet at the lobby and go to Huangshan via limousine (Participants are encouraged to put on casual clothes and sneakers)
	08:30-09:00	Get to the top of Huangshan via cable
	09:00-12:30	Enjoy beautiful scenery of Huangshan
Lunch	12:30-13:30	Table dinner at West Sea restaurant on the top of Huangshan
Afternoon	13:30-16:00	Enjoy beautiful scenery of Huangshan
	16:00-16:30	Get to the foot of Huangshan via cable
	16:30-17:30	Return to the city
Evening	17:30-19:00	Dinner at "Riverside Restaurant" beside the Xin An River.