Preliminary Program of COCOA2009

(April 10; Subject to Change)

Registration Day of June 9

At the lobby	14:00–19:00	*Registration Package: Bags, Proceedings, badges, programs, notebooks, ball pens, receipts of registration fee, reception/lunch/banquet/tour tickets, local maps*

Morning Sessions of June 10

Sessions/Chairs/Time		Titles of Talks / Speakers and Authors
Plenary session	09:00-10:00	Title/abstract to be announced
		Panos M, Pardalos, University of Florida, USA
Tea Break	10:00-10:20	At the 1st floor
Session A1 Algorithms for Network Design	10:20-10:45	Polynomial Approximation Schemes for the Max-Min Allocation Problem *Jianping Li, Weidong Li, Jianbo Li*
	10:45-11:10	Linear-Time Algorithm for Computing the Most Reliable Source on a Tree *Wei Ding, Guoliang Xue*
	11:10-11:35	A 5/3-Approximation Algorithm for Joint Replenishment with Deadlines *Tim Nonner, Alexander Souza*
	11:35-12:00	A PTAS for Node-Weighted Steiner Tree in Unit Disk Graphs *Xianyue Li, Xiaohua Xu, Feng Zou,Hongwei Du, Pengjun Wan, Yuexuan Wang, Weili Wu*
Session B1 Computational Geometry	10:20-10:45	On Open Rectangle-of-Influence Drawings of Planar Graphs *Huaming Zhang, Milind Vaidya*
	10:45-11:10	An Effective Hybrid Algorithm for the Circles and Spheres Packing Problems *Liu Jingfa, Yonglei Yao, Yu Zheng, Huantong Geng, Guocheng Zhou*
	11:10-11:35	Variable-Size Rectangle Covering *Francis Y.L. Chin, Hing-Fung Ting, Yong Zhang*
	11:35-12:00	On-Line Multiple-Strip Packing *Deshi Ye, Xin Han, Guochuan Zhang*
Lunch	12:00-13:00	Lunch at the 2nd floor (**lunch-tickets** are needed)

Afternoon Sessions of June 10

Sessions/Chairs/Time		Titles of Talks / Speakers and Authors
Session A2 Bioinformatics	14:00-14:25	DNA Library Screening, Pooling Design and Unitary *Suogang Gao, Zengti Li, Jiangchen Yu, Xiaofeng Gao, Weili Wu*
	14:25-14:50	Improved Algorithms for the Gene Team Problem *Biing-Feng Wang, Shang-Ju Liu, Chien-Hsin Lin*
	14:50-15:15	Linear Coherent Bi-cluster Discovery via Line Detection and Sample Majority Voting *Yi Shi, Zhipeng Cai, Guohui Lin, Dale Schuurmans*
	15:15-15:40	Matching Techniques Ride to Rescue OLED Displays *Andreas Karrenbauer*

Session B2	14:00-14:25	On 3-edge-connected Supereulerian Graphs *Hong-Jian Lai, Hao Li, Yehong Shao, Mingquan Zhan*
Graph Theory (I)	14:25-14:50	A Note on n-Critical Bipartite Graphs and its Application *Yueping Li, Zhe Nie*
	14:50-15:15	A Note on Edge Choosability and Degeneracy of Planar Graphs *Baoyindureng Wu, Xinhui An*
	15:15-15:40	A Condition for the Forcing Number Equal to the Minimum Number of Trailing Vertices *Hongwei Wang*
Tea Break	15:40-16:00	At the 1st floor
Session A3	16:00-16:25	Computing the Transitive Closure of a Union of Affine Integer Tuple Relations *Anna Beletska, Denis Barthou, Wlodzimierz Bielecki, Albert Cohen*
Combinatorics and Game Theory	16:25-16:50	Generalized Russian Cards Problem *Chen Yang, Zhenhua Duan*
	16:50-17:15	Improved Bounds for Facility Llocation Games with Fair Cost Allocation *Thomas Dueholm Hansen, Orestis A. Telelis*
	17:15-17:40	A Cost-Sharing Method for the Soft-Capacitated Economic Lot-Sizing Game *Ruichun Yang, Zhen Wang, Dachuan Xu*
Session B3	16:00-16:25	On Integrity of Harary Graphs *Fengwei Li, Qingfang Ye, Baohuai Sheng*
Graph Theory(II)	16:25-16:50	Hamiltonian Decomposition of Some Interconnection Networks *Hai-zhong Shi, Pan-feng Niu*
	16:50-17:15	Infinite Family from Each Vertex k-Critical Graph without Any Critical Edge *Jixing Wang*
	17:15-17:40	Effects of Delayed Cell-Lysis in a Mathematical Model of Host Pathogen *Biplab Chattopadhyay, Priti Kumar Roy, and Dipak Kesh*
Banquet	18:30-20:00	Banquet at the 2nd floor (**banquet-tickets** are needed)

Morning Sessions of June 11

Sessions/Chairs/Time		Titles of Talks / Speakers and Authors
Session A4	08:20-08:45	Two-Level Heaps: a New Structure with Applications to the Shortest Path Problem *K. Subramani, Kamesh Madduri*
Graph Algorithms	08:45-09:10	On Construction of Almost-Ramanujan Graphs *He Sun, Hong Zhu*
	09:10-09:35	A 2log2(n)-Approximation Algorithm for Directed Tour Cover *Viet Hung Nguyen*
	09:35-10:00	Approximation Algo. for Max 3-Section Using Complex Semidefinite Programming *Ai-fan Ling*
Session B4	08:20-08:45	Positive Influence Dominating Set in Online Social Networks *Feng Wang, Erika Camacho, Kuai Xu*
Online Problems	08:45-09:10	Optimal Algorithms for the Online Time Series Search Problem *Yinfeng Xu, Wenming Zhang, Feifeng Zheng*
	09:10-09:35	A Risk-Reward Competitive Analysis for the Newsboy Problem with Range Information *Guiqing Zhang, Yinfeng Xu*
	09:35-10:00	A Note on Online Scheduling for Jobs with Arbitrary Release Times *Jihuan Ding, Guochuan Zhang*

Tea Break	10:00-10:20	At the 1st floor
Session A5 Network Problems	10:20-10:45	A Kind of *n*-Vehicles Exploration Problem *Xiaoya Li, Jinchuan Cui*
	10:45-11:10	Deterministically Estimating Data Stream Frequencies *Sumit Ganguly*
	11:10-11:35	Fault-Tolerant Routing: *k*-Inconnected Many-to-One Routing in Wireless Networks *Deying Li, Qinghua Zhu, Huiqiang Yang*
	11:35-12:00	Approximating the Multicast Traffic Grooming Problem in SONET/WDM Rings *Jiguo Yu, Suxia Cui, Guanghui Wang*
Session B5 Scheduling (I)	10:20-10:45	Optimal Semi-Online Algorithm for Scheduling on a Batch Processing Machine *Ming Liu, Yinfeng Xu, Chengbin Chu, Lu Wang*
	10:45-11:10	Recoverable Robust Timetables on Trees *Gianlorenzo D'Angelo, Gabriele Di Stefano, Alfredo Navarra, Cristina M. Pinotti*
	11:10-11:35	Roulette Wheel Graph Colouring for Solving Examination Timetabling Problems *Nasser R. Sabar, Masri Ayob, Graham Kendall, Rong Qu*
	11:35-12:00	Integrated Production and Delivery Scheduling with Disjoint Windows *Yumei Huo, Joseph Y-T. Leung, Xin Wang*
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 Routing Problems	14:00-14:25	Size-Constrained Tree Partitioning for the Multicast k-Tree Routing Problem *Zhipeng Cai, Randy Goebel, Guohui Lin*
	14:25-14:50	On Disjoint Shortest Paths Routing on the Hypercube *Eddie Cheng, Shuhong Gao, Ke Qiu, Zhizhang Shen*
	14:50-15:15	A New Design Approach for Rearrangeable Multicast Switching Networks *Hongbing Fan, Yu-Liang Wu*
Session B6 Scheduling (II)	14:00-14:25	A Mathematical Programming Approach for Online Hierarchical Scheduling *Zhiyi Tan, An Zhang*
	14:25-14:50	Bicriteria Scheduling Jobs on a Single-Machine with Inventory Operations *Baoqiang Fan, Rongjun Chen, Guo-Chun Tang*
	14:50-15:15	Approximation Algorithms for Minimizing the Weighted Number of Tardy Jobs *Jianfeng Ren, Yuzhong Zhang, Xianzhao Zhang, Sun Guo*
Tea Break	15:15-15:35	At the 1st floor
Session A7 Wireless and optical networks	15:35-16:00	A Branch-and-Cut Algorithm for the Minimum Energy Symmetric Connectivity Problem *Xiangyong Li, Y.P. Aneja*
	16:00-16:25	Minimum Energy Broadcast Routing in Ad Hoc and Sensor Networks *Zheng Li, Deying Li*
	16:25-16:50	An Algorithm with Better Approximation Ratio for Multicast Traffic in SONET Rings *Jiguo Yu, Suxia Cui, Guanghui Wang*

Session B7	15:35-16:00	Makespan Minimization with Machine Availability Constraints *Bin Fu, Yumei Huo, Hairong Zhao*
Scheduling (III)	16:00-16:25	Scheduling Problems in Cross Docking *Chen Rongjun, Baoqiang Fan, Guo-Chun Tang*
	16:25-16:50	Scheduling with Rejection to Minimize the Makespan *Yuzhong Zhang , Jianfeng Ren, Chengfei Wang*
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 **(Casual clothes and sneakers are encouraged)**
	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.