The Program of COCOA2015

First Day (December 18, 2015)

Sessions/Time		Titles of Talks / Speakers and Authors
Registration	07:30 - 09:00	
Keynote	09:00 - 10:00	Eunice Santos, Ph.D., Illinois Institute of Technology
Coffee Break	10:00 - 10:15	
Session 1 Classic Combinatorial Optimization (Chair: Wolfgang Bein)	10:15 - 10:30	Frank Gurski, Jochen Rethmann, Egon Wanke, *Directed Pathwidth and Palletizers*
	10:30 - 10:45	Yishui Wang, Dachuan Xu, Donglei Du, Chenchen Wu, *Local Search Algorithms for k-median and k-Facility Location Problem with Linear Penalties*
	10:45 - 11:00	Chao Xu, Jianer Chen, Jianxin Wang, *Improved MaxSAT Algorithms for Instances of Degree 3*
	11:00 - 11:15	Jing Chen, Xin Han, Wolfgang Bein, Hingfung Ting, *Black And White Bin Packing Revisited*
	11:15 - 11:30	Yicheng Xu, Dachuan Xu, Donglei Du, Chenchen Wu, *A (5.83+ϵ)-approximation Algorithm for Universal Facility Location with Linear Penalty*
	11:30 - 11:45	Hamed Fahimi, Claude-Guy Quimper, *Variants of Multi-Resource Scheduling Problems with Equal Processing Times*
	11:45 - 12:00	Gopinath Mishra, SUBHRA MAZUMDAR, Arindam Pal, *Improved Algorithms for the Evacuation Route Planning Problem*
Lunch	12:00 - 13:00	
Session 2 Geometric Optimization (Chair: Alejandro Erickson)	13:00 - 13:15	Xuehou Tan, Qi Wei, *An improved on-line strategy for exploring unknown polygons*
	13:15 - 13:30	Scott Summers, David Furcy, *Optimal self-assembly of finite shapes at temperature 1 in 3D*
	13:30 - 13:45	Matias Korman, Sheung-Hung Poon, Marcel Roeloffzen, *Line Segment Covering of Cells in Arrangements*
	13:45 - 14:00	Yi Xu, Jigen Peng, Yinfeng Xu, Binhai Zhu, *The Discrete and Mixed Minimax 2-Center Problem*
	14:00 - 14:15	Binay Bhattacharya, Ante Custic, Akbar Rafiey, Arash Rafiey, Vladyslav Sokol, *Approximation Algorithms for Generalized MST and TSP in Grid Clusters*
	14:15 - 14:30	Michael Khachay, Helen Zaytseva, *Polynomial time approximation scheme for single-depot Euclidean capacitated vehicle routing problem*
	14:30 - 14:45	Supantha Pandit, Apurva Mudgal, *Covering, Hitting, Piercing, and Packing Rectangles Intersecting an Inclined Line*
Coffee Break	14:45 - 15:00	
Session 3 Network Optimization (Chair: Wolfgang Bein)	15:00 - 15:15	Yueshi Wu, Mihaela Cardei, *Distributed Algorithm for Mending Barrier Gaps via Sensor Rotation in Wireless Sensor Networks*
	15:15 - 15:30	Alejandro Erickson, Abbas Kiasari, Javier Navaridas, Iain Stewart, *An efficient shortest-path routing algorithm in the data centre network DPillar*
	15:30 - 15:45	Kejia Zhang, Qilong Han, Zhipeng Cai, Guisheng Yin, Junyu Lin, *Metric and Distributed On-line Algorithm for Minimizing Routing Interference in Wireless Sensor Networks*
	15:45 - 16:00	Yaning Liu, Hongwei Du, Qiang Ye, *WDCS: A Weight-Based Distributed Coordinate System*

	16:00 - 16:15	Gennaro Cordasco, Luisa Gargano, Marco Mecchia, Adele Rescigno, Ugo Vaccaro, *A Fast and Effective Heuristic for Discovering Small Target Sets in Social Networks*
	16:15 - 16:30	Antonio Fernández Anta, Chryssis Georgiou, Elli Zavou, *Adaptive Scheduling over a Wireless Channel under Constrained Jamming*
	16:30 - 16:45	Rongrong Zhu, Hongwei Du, Xiaohua Jia, Chuang Liu, *A Sensor Deployment Strategy in Bus-based Hybrid Ad-hoc Networks*
	16:45 - 17:00	Cristina Bazgan, Janka Chlebikova, Thomas Pontoizeau, *New insight into 2-community structures in graphs with applications in social networks*

Second Day (December 19, 2015)

Sessions/Chairs/Time		Titles of Talks / Speakers and Authors
Keynote	09:00 - 10:00	My T. Thai, Ph.D., University of Florida
Coffee Break	10:00 - 10:15	
Session 4 Complexity and Game (Chair: Yong Zhang)	10:15 - 10:30	Haiyang wang, zhenhua duan, Cong Tian, *Symbolic Model Checking for Alternating Projection Temporal Logic*
	10:30 - 10:45	Mathias Weller, Annie Chateau, Rodolphe Giroudeau, *On the complexity of scaffolding problems: from cliques to sparse graphs*
	10:45 - 11:00	N. R. Aravind, R. B. Sandeep, Naveen Sivadasan, *Parameterized lower bound and NP-completeness of some H-free Edge Deletion problems*
	11:00 - 11:15	Akaki Mamageishvili, Matus Mihalak, *Multicast Network Design Game on a Ring*
	11:15 - 11:30	Dongjing Miao, Jianzhong Li, Xianmin Liu, Hong Gao, *Vertex Cover in Conflict Graphs: Complexity and A Near Optimal Approximation*
	11:30 - 11:45	Andrzej Lingas, *Extreme witnesses and their applications*
	11:45 - 12:00	Gustavo Dias, Leo Liberti, *Orbital independence in symmetric mathematical programs*
Lunch	12:00 - 13:00	
Session 5 Optimization in Graphs I (Chair: Ugo Vaccaro)	13:00 - 13:15	Danjun Huang, Ko-Wei Lih, Weifan Wang, *Legally $(\Delta+2)$-coloring bipartite*
	13:15 - 13:30	Alka Bhushan, Gopalan Sajith, *An I/O Efficient Algorithm for Minimum Spanning Trees.*
	13:30 - 13:45	Stephan Beyer, Markus Chimani, *The Influence of Preprocessing on Steiner Tree Approximations*
	13:45 - 14:00	Xueliang Li, Yaoping Mao, Meiqin Wei, Ruihu Li, *Searching for (near) optimal codes*
	14:00 - 14:15	Wenbin Chen, Lingxi Peng, Jianxiong Wang, Fufang Li, *Algorithms for the Densest Subgraph with at least k Vertices and with a Specified Subset*
	14:15 - 14:30	Liying Kang, Erfang Shan, Jianjie Zhou, *The connected p-centdian problem on block graphs*
	14:30 - 14:45	Wei Ding, Ke Qiu, *Approximating the Restricted 1-Center in Graphs*
Coffee Break	14:45 - 15:00	
Session 6 Optimization in Graphs II	15:00 - 15:15	Yuichi Asahiro, Yuya Doi, Eiji Miyano, Hirotaka Shimizu, *Optimal Approximation Algorithms for Maximum Distance-Bounded Subgraph Problems*
	15:15 - 15:30	Abhiruk Lahiri, Joydeep Mukherjee, C. R. Subramanian, *Maximum Independent Set on B_1-VPG Graphs*
	15:30 - 15:45	Minghui Jiang, *Trees, Paths, Stars, Caterpillars and Spiders*
	15:45 - 16:00	Bogdan Armaselu, Ovidiu Daescu, *Online Minimum Bichromatic Separating Circle*

Sessions/Chairs/Time		Titles of Talks / Speakers and Authors
(Chair: Eunjeong Yi)	16:00 - 16:15	Wei Ding, Ke Qiu, *Dynamic Single-Source Shortest Paths in Erd\"{o}s-R\'{e}nyi Random Graphs*
	16:15 - 16:30	Minghui Jiang, Ge Xia, Yong Zhang, *Edge-Disjoint Packing of Stars and Cycles*
	16:30 - 16:45	Eunjeong Yi, *The disjunctive bondage number and the disjunctive total bondage number of graphs*
	16:45 - 17:00	Jessica Enright, Kitty Meeks, *Deleting edges to restrict the size of an epidemic: a new application for treewidth*
	17:00-17:15	Xiang Li, My T. Thai, *Adaptive Approximation Algorithms for Community Detection in Dynamic Networks*

Third Day (December 20, 2015)

Sessions/Chairs/Time		Titles of Talks / Speakers and Authors
Session 7 Applied Optimization (Chair: Wei Ding)	08:30 - 08:45	Zeqi Song, Hongwei Du, Hejiao Huang, Chuang Liu, *Indoor Localization via Candidate Fingerprints and Genetic Algorithm*
	08:45 - 09:00	Dan Yang, Xiaohan He, Liang Song, Hejiao Huang, Hongwei Du, *A Hybrid Large Neighborhood Search for Dynamic Vehicle Routing Problem with Time Deadline*
	09:00 - 09:15	Ahmad Mahmoody, Eli Upfal, Evgenios Kornaropoulos, *Optimizing Static and Adaptive Probing Schedules for Rapid Event Detection*
	09:15 - 09:30	Zola Donovan, Vahan Mkrtchyan, K. Subramani, *On clustering without replication in combinatorial circuits*
	09:30 - 09:45	Sonia Toubaline, Pierre-Louis Poirion, Claudia D'Ambrosio, Leo Liberti, *Observing the state of a smart grid using bilevel programming*
	09:45 - 10:00	K. Alex Mills, R. Chandrasekaran, Neeraj Mittal, *On Replica Placement in High-Availability Storage under Correlated Failure*
Coffee Break	10:00 - 10:15	
Session 8 Miscellaneous (Chair: Michael Khachay)	10:15 - 10:27	Eranda Cela, Vladimir Deineko, Gerhard Woeginger, *Another easy QAP case with Robinsonian matrix: Is it easy to recognize?*
	10:27 - 10:39	Tadao Takaoka, *Algebraic Theory on Shortest Paths for All Flows*
	10:39 - 10:51	Yuqing Zhu, Chengxu Sun, Deying Li, Cong Chen, Yinfeng Xu, *Searching Graph Communities by Modularity Maximization via Convex Optimization*
	10:51 - 11:03	Xin Feng, Yinfeng Xu, Feifeng Zheng, *Online scheduling for Electricity Cost in Smart Grid*
	11:03 - 11:15	Feifeng Zheng, Longliang Qiao, *An online model of berth and quay crane integrated allocation in container terminals*
	11:15 - 11:27	Hiromitsu Maji, Taisuke Izumi, *Listing Center Strings under the Edit Distance Metric*
	11:27 - 11:39	Yasushi Kawase, Xin Han, Kazuhisa Makino, *Proportional Cost Buyback Problem with Weight Bounds*
	11:39 - 11:51	Kelin Luo, Yinfeng Xu, *The Minimum Acceptable Violation Ranking of Alternatives from Voters' Ordinal Rankings*
	11:51 - 12:03	Guillaume Escamocher, Barry O'Sullivan, *On the Minimal Constraint Satisfaction Problem: Complexity and Generation*