

FAW 2015 Program

July 2, 2015			
15:00-21:00	On-site Registration		Guilin Plaza Hotel
July 3, 2015			
8:20-8:30	<i>Venue:</i>	Opening Address	Chair: <i>Xianxian Li</i>
8:30-9:30	Plenary Session <i>Venue:</i>	Graph Modification Problems: A modern perspective <i>Fedor Fomin</i>	Chair: <i>Chee Yap</i>
9:30-10:00	Photo & Coffee Break		
10:00-11:00	Plenary Session <i>Venue:</i>	Is Valiant + FKT universal? <i>Jinyi Cai</i>	Chair: <i>Chee Yap</i>
11:00-12:00	Session 1 <i>Venue:</i>	Scheduling Algorithm, Combinatorial Optimization	Chair: <i>Binhai Zhu</i>
		11:00-11:20	A Data Streams Analysis Strategy Based on Hadoop Scheduling Optimization for Smart Grid Application <i>Fengquan Zhou, Xin Song, Yinghua Han and Jing Gao</i>
		11:20-11:40	A New Algorithm for Intermediate Dataset Storage in Cloud-Based Dataflow. <i>Jie Cheng, Daming Zhu and Binhai Zhu</i>
		11:40-12:00	Machine scheduling with a maintenance interval and job delivery coordination. <i>Jueliang Hu, Taibo Luo, Xiaotong Su, Jianming Dong, Weitian Tong, Randy Goebel, Yinfeng Xu and Guohui Lin</i>
12:00-14:30	Lunch <i>Venue:</i>		
14:30-16:10	Session 2 <i>Venue:</i>	Approximation and Graph Algorithm	Chair: <i>Yong Gao</i>
		14:30-14:50	Approximate model counting via extension rule. <i>Jinyan Wang, Minghao Yin and Jingli Wu</i>
		14:50-15:10	Enumeration, Counting, and Random Generation of Ladder Lotteries. <i>Katsuhisa Yamanaka and Shin-Ichi Nakano</i>
		15:10-15:30	Approximation algorithms for the multilevel facility location problem with linear/submodular penalties. <i>Gaidi Li, Dachuan Xu, Donglei Du and Chenchen Wu</i>
		15:30-15:50	Local Search To Approximate Max NAE-k-Sat Tightly. <i>Aiyong Xian, Kaiyuan Zhu, Daming Zhu and Lianrong Pu</i>
15:50-16:10	Efficient Modular Reduction Algorithm without Correction Phase. <i>Haibo Yu, Guoqiang Bai and Huikang Hao</i>		
16:10-16:30	Coffee Break		

16:30-18:10	Session 3 Venue:	Randomized, Approximation and Geometry Algorithm		Chair: <i>Mingyu Xiao</i>
		16:30-16:50	Super Solutions of Random Instances of Satisfiability. <i>Peng Zhang and Yong Gao</i>	
		16:50-17:10	Social Models and Algorithms for Optimization of Contact Immunity of Oral Polio Vaccine <i>Chengwei Guo, Chenglong Ma and Shengyu Zhang</i>	
		17:10-17:30	Lower and Upper Bounds for Random Mimimum Satisfiability Problem. <i>Ping Huang and Kaile Su</i>	
		17:30-17:50	On solving systems of diagonal polynomial equations over finite fields. <i>Gabor Ivanyos and Miklos Santha</i>	
		17:50-18:10	A New Distributed Algorithm for Computing a Dominating Set on Grids. <i>Photchchara Pisantechakool and Xuehou Tan.</i>	
18:20-20:00	Banquet			
July 4, 2015				
8:30-9:30	Plenary Session Venue:	Soft Subdivision Search in Motion Planning, II: Axiomatics <i>Chee Yap</i>		Chair: <i>Yi Pan</i>
9:30-9:50	Coffee Break			
9:50-11:50	Session 4 Venue:	Graph and Parameterized Algorithm		Chair: <i>Qilong Feng</i>
		9:50-10:10	Smaller kernels for several FPT problems based on simple observations. <i>Wenjun Li and Shuai Hu</i>	
		10:10-10:30	Parameterized Minimum Cost Partition of a Tree with Supply and Demand <i>Mugang Lin, Wenjun Li and Qilong Feng</i>	
		10:30-10:50	Faster computation of the maximum dissociation set and minimum 3-path vertex cover in graphs <i>Mingyu Xiao and Shaowei Kou</i>	
		10:50-11:10	Pattern Backtracking Algorithm for the Workflow Satisfiability Problem with User-Independent Constraints. <i>Daniel Karapetyan, Andrei Gagarin and Gregory Gutin</i>	
		11:10-11:30	The Directed Dominating Set Problem: Generalized Leaf Removal and Belief Propagation. <i>Yusupjan Habibulla, Jin-Hua Zhao and Hai-Jun Zhou</i>	
		11:30-11:50	On the Sound Covering Cycle Problem in Paired de Bruijn Graphs. <i>Christian Komusiewicz and Andreea Radulescu</i>	
11:50-14:30	Lunch Venue:			

14:30-16:10	Session 5 Venue:	Graph Algorithm, Combinatorial Optimization		Chair: <i>Haijun Zhou</i>	
		14:30-14:50	A Linear Time Algorithm for Ordered Partition <i>Yijie Han</i>		
		14:50-15:10	A Fast and Practical Method to Estimate Volumes of Convex Polytopes. <i>Cunjing Ge and Feifei Ma</i>		
		15:10-15:30	Truthful Strategy and Resource Integration for Multi-tenant Data Center Demand Response. <i>Youshi Wang, Fa Zhang and Zhiyong Liu</i>		
		15:30-15:50	Fast quantum algorithms for Least Squares Regression and Statistic Leverage Scores. <i>Yang Liu and Shengyu Zhang</i>		
		15:50-16:10	The Online Storage Strategy for Automated Storage and Retrieval System with Single Open in One Dimension. <i>Henan Liu and Yinfeng Xu</i>		
16:10-16:30	Coffee Break				
16:30-17:50	Session 6 Venue:	Graph Algorithm, Combinatorial Optimization		Chair: <i>Yijie Han</i>	
		16:30-16:50	Union Closed Tree Convex Sets. <i>Tian Liu and Ke Xu</i>		
		16:50-17:10	Efficient Computation of the Characteristic Polynomial of a Threshold Graph. <i>Martin Fürer</i>		
		17:10-17:30	On r-gatherings on the Line. <i>Toshihiro Akagi and Shin-Ichi Nakano</i>		
		17:30-17:50	Improved Information Set Decoding for Code-based Cryptosystems with Constrained Memory. <i>Maoning Wang and Mingjie Liu</i>		
18:00-19:30	Dinner				
19:30-22:00	Tour of Two River and Four Lakes				