COCOON 2019

The 25th International Computing and Combinatorics Conference

Xian, China, 29-31th July 2019

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Program

Program for COCOON 2019 Main Coference

Sunday | Monday | Tuesday | Wednesday

July 28, 2019, Sunday

15:00 - 21:00	Registration
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July 29, 2019, Monday

Openning and Invited Talk (Chair: Ding-Zhu Du)	
8:20 - 8:30	Openning
8:30 - 9:30	Huimin Lin Model Checking via Games
9:30 - 10:00	Photo & Coffee Break
	Session I (Chair: Shin-Ichi Nakano)
10:00 - 10:20	Shengjun Xie, Haodi Feng, Haitao Jiang, Junfeng Luan and Daming Zhu An Approximation Algorithm for Sorting by Bounded Singleton Moves

10:20 - 10:40	Cristina Bazgan, Arne Herzel, Stefan Ruzika, Clemens Thielen and Daniel Vanderpooten
	An FPTAS for a General Class of Parametric Optimization Problems Daogao Liu
10:40 - 11:00	More efficient Algorithms for Stochastic Diameter and Some Unapproximated Problems in Metric Space
	Junjie Chen and Takanori Maehara
11:00 - 11:20	Chance-Constrained Submodular Knapsack Problem
11.20 11.40	Zhenning Zhang, Bin Liu, Yishui Wang, Dachuan Xu and Dongmei Zhang
11:20 - 11:40	Greedy Algorithm for Maximization of Non-submodular Functions Subject to Knapsack Constraint
11:40 - 12:00	Ruiqi Yang, Dachuan Xu, Donglei Du, Yicheng Xu and Xihong Yan
	Maximization of Constrained Non-Submodular Functions
12:00 - 14:00	Lunch - Buffet
	Session II (Chair: Deshi Ye)
	Pratyush Dayal and Neeldhara Misra
14:00 - 14:20	Deleting to Structured Trees
	Hung Le and Baigong Zheng
14:20 - 14:40	A Simple Local Search Gives a PTAS for the Feedback Vertex Set Problem in Minor-free Graphs
14:40 15:00	Ashwin Jacob, Venkatesh Raman and Vibha Sahlot
14:40 - 15:00	Deconstructing Parameterized Hardness of Fair Vertex Deletion problems
15:00 - 15:20	Kavitha Gopal, Meghana Nasre, Prajakta Nimbhorkar and T. Pradeep Reddy
15.00 - 15.20	Many-to-one Popular Matchings with Two-sided Preferences and One-sided Ties
15:20 - 15:40	Takehiro Ito, Haruka Mizuta, Naomi Nishimura and Akira Suzuki
	Incremental Optimization of Independent Sets Under the Reconfiguration Framework
15:40 - 16:00	Jayakrishnan Madathil, Pranabendu Misra and Saket Saurabh An Erdos–Posa Theorem on Neighborhoods and Domination Number
	All Eldos-i osa mediem dii Neigribornoods and bomination Number
16:00 - 16:20	Coffee Break
	Session III (Chair: Van Bang Le)
46.00 46.40	Taiki Todo, Atsushi lwasaki and Makoto Yokoo
16:20 - 16:40	Competitive Auctions and Envy-Freeness for Group of Agents
16:40 - 17:00	Deshi Ye, Feng Xie and Guochuan Zhang
10.40 - 17.00	Truthful Mechanism Design of Reversed Auction on Cloud Computing
17:00 - 17:20	Koji M. Kobayashi
	An Optimal Algorithm for 2-bounded Delay Buffer Management with Lookahead
17:20 - 17:40	Takashi Horiyama, Shin-Ichi Nakano, Toshiki Saitoh, Koki Suetsugu, Akira Suzuki, Ryuhei Uehara, Takea Uno and Kunihiro Wasa
17.20 - 17.40	Max-Min 3-dispersion Problems
	Hideaki Ohashi, Yasuhito Asano, Toshiyuki Shimizu and Masatoshi Yoshikawa
17:40 - 18:00	Give and Take: Adaptive Balanced Allocation for Peer Assessments
	Ruidong Yan, Yi Li, Deying Li, Yuqing Zhu, Yongcai Wang and Hongwei Du
18:00 - 18:20	Activation Probability Maximization for Target Users under Influence Decay Model
18:20 - 20:00	Dinner - Buffet

July 30, 2019, Tuesday

	Invited Talk (Chair: Zhenhua Duan)
8:30 - 9:30	Luke Ong Probabilistic Programming for Bayesian Machine Learning
9:30 - 9:50	Coffee Break
	Session IV (Chair: Gill Barequet)
9:50 - 10:10	Xiaoming Sun, Yuan Sun, Kewen Wu and Zhiyu Xia On the Relationship between Energy Complexity and other Boolean Function Measures
10:10 - 10:30	Krishnamoorthy Dinesh and Jayalal Sarma Sensitivity, Affine Transforms and Quantum Communication Complexity
10:30 - 10:50	Prasad Chaugule, Nutan Limaye and Aditya Varre Variants of Homomorphism Polynomials Complete for Algebraic Complexity Classes
10:50 - 11:10	Purnata Ghosal and B. V. Raghavendra Rao On Proving Parameterized Size Lower Bounds for Multilinear Algebraic Models
11:10 - 11:30	Dongjing Miao and Zhipeng Cai On The Hardness of Reachability Reduction
11:30 - 11:50	Holger Petersen LIKE Patterns and Complexity
12:00 - 14:00	Lunch - Buffet
	Session V (Chair: R. Inkulu)
14:00 - 14:20	Grzegorz Guśpiel Smaller Universal Targets for Homomorphisms of Edge-colored Graphs
14:20 - 14:40	Sixue Liu Lower Bounds for Small Ramsey Numbers on Hypergraphs
14:40 - 15:00	Marthe Bonamy, Marc Heinrich, Takehiro Ito, Yusuke Kobayashi, Haruka Mizuta, Moritz Muehlenthal Akira Suzuki and Kunihiro Wasa
	Diameter of Colorings Under Kempe Changes Girish Raguvir J, Manas Jyothi Kashyop and N. S. Narayanaswamy
15:00 - 15:20	Data Structures for Incremental Interval Coloring
15:20 - 15:40	Danil Sagunov and Ivan Bliznets
13.40	Lower Bounds for the Happy Coloring Problems
15:40 - 16:00	Sun-Yuan Hsieh, Hoang-Oanh Le, Van Bang Le and Sheng-Lung Peng Matching Cut in Graphs with Large Minimum Degree
16:00 - 16:20	Coffee Break
	Consign VI (Chaire Chang Lung Donn)
	Session VI (Chair: Sheng-Lung Peng)
16:20 - 16:40	Gill Barequet and Minati De A Lower Bound on the Growth Constant of Polyaboloes on the Tetrakis Lattice
16:40 - 17:00	Sukanya Bhattacharjee and R. Inkulu Geodesic Fault-tolerant Additive Weighted Spanners
	Pawel Gorecki, Alexey Markin and Oliver Eulenstein

17:20 - 17:40	Md. Manzurul Hasan and Md. Saidur Rahman
	No-Bend Orthogonal Drawings and No-Bend Orthogonally Convex Drawings of Planar Graphs
	(Extended Abstract)
17:40 - 18:00	Janka Chlebikova and Miroslav Chlebik
	Approximation Hardness of Travelling Salesman via Weighted Amplifiers
18:00 - 18:20	Mingyu Xiao, Jianan Zhang and Weibo Lin
	Parameterized Algorithms For The Traveling Purchaser Problem With Additional Constraints
18:30 - 20:30	Banquet

July 31, 2019, Wednesday

	Invited Talk (Chair: Cong Tian)
8:30 - 9:30	Wenfei Fan
0.30 - 9.30	Making Big Data Small
9:30 - 9:50	Coffee Break
	Session VII (Akira Suzuki)
9:50 - 10:10	Yicheng Xu, Dachuan Xu, Yong Zhang and Juan Zou
	Universal Facility Location in Generalized Metric Space
10:10 - 10:30	Wei Yu, Zhaohui Liu and Xiaoguang Baooriginal
	Distance Constrained Vehicle Routing Problem to Minimize the Total Cost
10:30 - 10:50	Vincent Chau, Minming Li, Yinling Wang, Ruilong Zhang and Yingchao Zhao Minimizing the Cost of Batch Calibration
	Min Li, Yishui Wang, Dachuan Xu and Dongmei Zhang
10:50 - 11:10	The Seeding Algorithm for Functional k-Means Problem
	Dibyayan Chakraborty, Sandip Das and Joydeep Mukherjee
11:10 - 11:30	Dominating Set on Overlap Graphs of Rectangles Intersecting a Line
11:30 - 11:50	Mingyu Xiao
11.50 11.50	Upper and Lower Bounds on Approximating Weighted Mixed Domination
12:00 - 14:00	Lunch - Buffet
	Session VIII (Chair: Ning Ding)
14:00 - 14:20	Alessandro Hill, Stefan Voss and Roberto Baldacci
	Branch-and-Cut Algorithms for Steiner Tree Problems with Privacy Conflicts
14:20 - 14:40	Jan Gorzny and Jonathan Buss
	Imbalance, Cutwidth, and the Structure of Optimal Orderings
14:40 - 15:00	Niranka Banerjee, Venkatesh Raman and Saket Saurabh
	Fully Dynamic Arboricity Maintenance
15:00 - 15:20	Hovhannes A. Harutyunyan and Zhiyuan Li A Simple Construction of Broadcast Graphs
15:00 - 15:20	A SIMPLE CONSTRUCTION OF BLOSDICASE CLADUS
15:00 - 15:20	
15:20 - 15:40	Mehul Kumar, Amit Kumar and C. Pandu Rangan

16:00 - 16:20	Coffee Break
	Session IX (Chair: Yong Zhang)
16:20 - 16:40	Liang Zhao, Xiaobing Wang, Xinfeng Shu and Nan Zhang
10.20 - 10.40	A Proof System for a Unified Temporal Logic
16:40 - 17:00	Xinfeng Shu and Nan Zhang
10.40 - 17.00	An Efficient Decision Procedure for Propositional Projection Temporal Logic
	Jean-Guillaume Dumas, Pascal Lafourcade, Daiki Miyahara, Takaaki Mizuki, Tatsuya Sasaki and Hideak
17:00 - 17:20	Sone
	Interactive Physical Zero-Knowledge Proof for Norinori
17.20 17.40	Xiaoming Sun, Yuan Sun, Zhiyu Xia and Jialin Zhang
17:20 - 17:40	The One-Round Multi-player Voronoi Game on Grids and Trees
17:40 19:00	Ning Ding
17:40 - 18:00	On Exactly Learning Disjunctions and DNFs without Equivalence Queries
18:00 - 18:20	Yang Liu and Kristiaan Pelckmans
10.00 - 10.20	APTER: Aggregated Prognosis Through Exponential Re-weighting