

ICALP satellite workshops

Malostranské Náměstí 2/25

Prague, Czechia

July 9, 2018

Modern Online Algorithms (MOLI)

Room: S8 (1st floor)

Time	Speaker	Title
09:00 – 09:25	Joan Boyar	The Scheduler is Very Powerful in Competitive Analysis of Distributed List Accessing
09:25 – 09:50	Björn Feldkord	Managing Mobile Resources
09:50 – 10:15	Pavel Veselý	Plan-Based Algorithms for Bounded-Delay Packet Scheduling
10:15 – 10:40	Asaf Levin	A new and improved algorithm for online bin packing
10:40 – 11:10	Coffee Break	
11:10– 11:35	Uriel Feige	Max-Min Greedy Matching
11:35 – 12:00	David Wajc	Online Matching in Regular Graphs (and Beyond)
12:00 – 12:25	Artur Kraska	A Primal-Dual Online Deterministic Algorithm for Matching with Delays
12:25 – 12:50	Christoph Dürr	Online Maximum Matching with Recourse
12:50 – 14:20	Lunch Break	
14:20 – 14:45	Lene M. Favrholdt	Upper and Lower Bound Techniques for Advice Complexity
14:45 – 15:10	Shahin Kamali	Online Bin Covering with Advice
15:10 – 15:35	Elisabet Burjons	Analyzing Online Algorithms Against a Randomized Adversary
15:35 – 16:00	Jakub Marecek	Low-Rank Subspace Pursuit in Event Detection
16:00 – 16:30	Coffee Break	
16:30 – 16:55	Attila Bódis	Bin packing problem with scenarios
16:55 – 17:20	Islam Akaria	Online scheduling with general machine cost functions
17:20 – 17:45	Carmi Arlinsky Gover	Online k-bounded coloring of some graph classes (and other online coloring problems)
17:45 – 18:10	Lukasz Jez	Make-to-Order Integrated Scheduling and Distribution

Game Solving: Theory and Practice

Room: S11 (1st floor)

Time	Speaker	Title
08:50 – 09:00	Opening Remarks	
09:00 – 10:30	Krishnendu Chatterjee	Invited Talk
10:30 – 11:00	Coffee Break	
11:00 – 11:20	Jean-Francois Raskin	Online reinforcement learning for mean-payoff with parity guarantees
11:20 – 11:40	Hugo Gimbert	Algorithms for non co-operative team games
11:40 – 12:00	Antonin Kucera	Synthesizing Efficient Solutions for Patrolling Problems in the Internet Environment
12:00 – 12:20	Fei Fang	Designing the Game to Play: Optimizing Payoff Structure in Security Games
12:30 – 14:00	Lunch Break	
14:00 – 15:30	Quanyan Zhu	Invited Talk
15:30 – 16:00	Coffee Break	
16:00 – 16:20	Karel Horak	One-Sided Partially Observable Stochastic Games and Their Extensions
16:20 – 16:40	Karel Durkota	Game Theoretic Approach to Network Security Configuration Problems
16:40 – 17:00	Jakub Cerny	Automata Playing Extensive Form Games: Definition and equilibrial complexity

Parameterized Approximation Algorithms Workshop (PAAW)

Room: S3 (3rd floor)

Time	Speaker	Title
09:00 – 09:30	Parinya Chalermsook	From Gap-ETH to FPT-Inapproximability: Clique, Dominating Set, and More
09:30 – 10:00	Bingkai Lin	FPT-Inapproximability of Minimum Codeword Problem over Large Fields
10:00 – 10:30	Bundit Laekhanukit	On the Inapproximability of Parameterized Dominating Set
10:30 – 11:00	Coffee Break	
11:00 – 11:30	Ariel Kulik	Parameterized Approximation via Fidelity Preserving Transformations
11:30 – 12:00	Eduard Eiben	Lossy Kernels for Connected Dominating Set on Sparse Graphs
12:00 – 12:30	Krzysztof Sornat	Approximation and Parameterized Complexity of Minimax Approval Voting
12:30 – 14:00	Lunch Break	
14:00 – 14:30	Euiwoong Lee	Losing Treewidth by Separating Subsets
14:30 – 15:00	Jason Li	An FPT Algorithm Beating 2-Approximation for k-Cut
15:00 – 15:30	Michael Lampis	Parameterized (Approximate) Defective Coloring
15:30 – 16:00	Coffee Break	
16:00 – 16:30	Michael Dinitz	Characterizing Demand Graphs for (Fixed-Parameter) Shallow-Light Steiner Network
16:30 – 17:00	Daniel Vaz	Beyond Metric Embedding: Approximating Group Steiner Trees on Bounded Treewidth Graphs
17:00 – 17:30	Tomáš Masařík	Parameterized Approximation Schemes for Steiner Trees with Small Number of Steiner Vertices

INFINITY (20th Int. Workshop on Verification of Infinite-State Systems)

Room: S10 (1st floor)

Time	Speaker	Title
09:00 – 10:00	Jérôme Leroux	Ideal Decompositions: Applications to Petri Net Extensions (invited talk)
10:00 – 10:30	Dominik Velan	Efficient Algorithms for Asymptotic Bounds on Termination Time in VASS
10:30 – 11:00	Coffee Break	
11:00 – 11:30	Ranko Lazić	The Reachability Problem for Unary Linear Path Schemes
11:30 – 12:00	Filip Mazowiecki	Affine Extensions of Integer Vector Addition Systems with States
12:00 – 12:30	Sławomir Lasota	Regular Separability of Well-Structured Transition Systems
12:30 – 14:00	Lunch Break	
14:00 – 15:00	Sylvain Schmitz	On the Complexity of VAS Reachability (invited talk)
15:00 – 15:30	Wojciech Czerwiński	Example of a VASS with doubly exponential shortest run in a fixed dimension
15:30 – 16:00	Coffee Break	
16:00 – 16:30	Alexander Rabinovich	Reachability Problem for Nets over Register Automata
16:30 – 17:00	Lorenzo Clemente	Decidability of Timed Communicating Automata
17:00 – 17:30	Piotr Hofman	Around State Equation

Algorithmic Aspects of Temporal Graphs

Room: S9 (1st floor)

Time	Speaker	Title
09:00 – 09:30	Paola Flocchini	Decentralized computations by mobile agents in time-varying graphs
09:30 – 10:00	Arnaud Casteigts	On robust temporal structures in highly dynamic networks
10:00 – 10:30	Ralf Klasing	Computing parameters of sequence-based dynamic graphs
10:30 – 11:00	Coffee Break	
11:00 – 11:30	Christos Zaroliagis	An axiomatic approach to time-dependent shortest paths
11:30 – 12:00	Matthieu Latapy	Analysis of temporal interactions with link streams and stream graphs
12:00 – 12:30	Clemence Magnien	Algorithmic challenges in link streams: the case of clique computations
12:30 – 14:00	Lunch Break	
14:00 – 14:30	Thomas Erlebach	Exploration of temporal graphs with bounded degree
14:30 – 15:00	Eleni Akrida	The temporal explorer who returns to the base
15:00 – 15:30	Hendrik Molter	On separators in temporal graphs
15:30 – 16:00	Coffee Break	
16:00 – 16:30	Jessica Enright	Reducing reachability in temporal graphs: Part I
16:30 – 17:00	Kitty Meeks	Reducing reachability in temporal graphs: Part II

Constrained Recognition Problems

Room: S4 (3rd floor)

Time	Speaker	Title
14:00 – 15:30	Jan Kratochvíl	Geometric Representations of Graphs: Representation Extension versus Simultaneous Representations
15:00 – 15:30	Bartosz Walczak	Extending partial representations of trapezoid graphs
15:30 – 16:00	Coffee Break	
16:00 – 17:00	MS Ramanujan	Graph Editing to SAT Editing
17:00 – 17:30	Yixin Cao	Interval graphs and (normal Helly) circular-arc graphs

Workshop of Summer School on Algorithms and Lower Bounds

Room: S5 (2nd floor)

Time	Speaker	Title
12:30 – 14:00	Lunch Break	
14:00 – 14:30	Diptarka Chakraborty	Tight cell probe bounds for succinct Boolean matrix-vector multiplication
14:30 – 15:00	Burno Loff	Simulation beats richness: New data-structure lower bounds
15:00 – 15:30	Ludmila Glinskikh	Lower bound for read-once nondeterministic branching program for satisfiable Tseitin formula using tree-width
15:30 – 16:00	Coffee Break	
16:00 – 16:30	Danil Sagunov	Lower bounds and exact exponential algorithms for the Target Set Selection problem
16:30 – 17:00	Thatchaphol Saranurak	Dynamic minimum spanning tree in sub-polynomial worst-case update time
17:00 – 17:10	Break	
17:10 – 17:40	Petr Ryšavý	Estimating Levenshtein distance from sequencing data
17:40 – 18:10	Debarati Das	Approximating edit distance within constant factor in truly sub-quadratic time