

Day 2: Monday, October 28, 2024

9:00 – 10:30am	Session 1A	Session 1B	Session 1C
	<p>Cycles of Well-Linked Sets and an Elementary Bound for the Directed Grid Theorem Authors: M. Garlet Milani, S. Kreutzer, I. Muzi, M. Hatzel</p>	<p>O(1) Insertion for Random Walk d-ary Cuckoo Hashing up to the Load Threshold Authors: T. Bell, A. Frieze</p>	<p>On Approximate Fully-Dynamic Matching and Online Matrix-Vector Multiplication Authors: Y. Liu</p>
	<p>First-Order Model Checking on Monadically Stable Graph Classes Authors: J. Dreier, I. Eleftheriadis, N. Mählmann, R. McCarty, M. Pilipczuk, S. Toruńczyk</p>	<p>Fast Mixing in Sparse Random Ising Models Authors: K. Liu, S. Mohanty, A. Rajaraman, D. Wu</p>	<p>Fully Dynamic k-Clustering with Fast Update Time and Small Recourse Authors: S. Bhattacharya, M. Costa, N. Garg, S. Lattanzi, N. Parotsidis</p>
	<p>Obstructions to Erdős-Pósa Dualities for Minors Authors: C. Paul, E. Protopapas, D. Thilikos, S. Wiederrecht</p>	<p>A Sampling Lovász Local Lemma for Large Domain Sizes Authors: C. Wang, Y. Yin</p>	<p>Predict to Minimize Swap Regret for All Payoff-Bounded Tasks Authors: L. Hu, Y. Wu</p>
	<p>Minor Containment and Disjoint Paths in almost-linear time Authors: T. Korhonen, M. Pilipczuk, G. Stamoulis</p>	<p>Sampling, counting, and large deviations for triangle-free graphs near the critical density Authors: M. Jenssen, W. Perkins, A. Potukuchi, M. Simkin</p>	<p>A Lossless Deamortization for Dynamic Greedy Set Cover Authors: S. Solomon, A. Uzrad, T. Zhang</p>
	<p>Computing the 3-edge-connected components of directed graphs in linear time Authors: E. Kosinas, L. Georgiadis, G. Italiano</p>	<p>Computational Dynamical Systems Authors: J. Cotler, S. Rezhikov</p>	<p>The Online Submodular Assignment Problem Authors: S. Sarkar, D. Hathcock, M. Zlatin, B. Jin, K. Patton</p>
	<p>Three-edge-coloring projective planar cubic graphs: A generalization of the Four Color Theorem Authors: Y. Inoue, K. Kawarabayashi, A. Miyashita, B. Mohar, T. Sonobe</p>	<p>Locally Stationary Distributions Authors: K. Liu, S. Mohanty, P. Raghavendra, A. Rajaraman, D. Wu</p>	<p>Fully Dynamic Matching and Ordered Ruzsa-Szemer'edi Graphs Authors: S. Behnezhad, A. Ghafari</p>

10:30 – 10:50am	Break		
10:50 – 12:00	Plenary 1 Roger Myerson, University of Chicago		
12:00 – 1:30pm	Conference Lunch		
1:30pm – 2:30pm	Session 2A	Session 2B	Session 2C
	Fast list decoding of univariate multiplicity and folded Reed-Solomon codes Authors: R. Goyal, P. Harsha, M. Kumar, A. Shankar	Communication Separations for Truthful Auctions: Breaking the Two-Player Barrier Authors: S. Ron, C. Thomas, S. Weinberg, Q. Zhang	Efficient approximate unitary designs from random Pauli rotations Authors: J. Haah, Y. Liu, X. Tan
	Decoding Quasi-Cyclic Quantum LDPC Codes Authors: L. Golowich, V. Guruswami	On Pigeonhole Principles and Ramsey in TFNP Authors: S. Jain, J. Li, R. Robere, Z. Xun	Efficient Unitary Designs from Random Sums and Permutations Authors: C. Chen, J. Docter, M. Xu, A. Bouland, F. Brandao, P. Hayden
	Optimal Coding Theorems for Randomized Kolmogorov Complexity and Its Applications Authors: S. Hirahara, Z. Lu, M. Nanashima	An XOR Lemma for Deterministic Communication Complexity Authors: S. Iyer, A. Rao	Simple constructions of linear-depth t-designs and pseudorandom unitaries Authors: T. Metger, A. Poremba, M. Sinha, H. Yuen
	Expansion of high-dimensional cubical complexes with application to quantum locally testable codes Authors: I. Dinur, T. Lin, T. Vidick	The Communication Complexity of Approximating Matrix Rank Authors: A. Sherstov, A. Storozhenko	Gapped Clique Homology is QMA1-hard and contained in QMA Authors: R. King, T. Kohler
2:40 – 3:50pm	Plenary 2 Irit Dinur, Weizmann Institute		
3:55 – 4:15	Break		
4:15 – 5:30PM	Session 3A	Session 3B	Session 3C

	Reverse Mathematics of Complexity Lower Bounds Authors: L. Chen, J. Li, I. Oliveira	Optimal Bounds for Open Addressing Without Reordering Authors: M. Farach-Colton, A. Krapivin, W. Kuszmaul	Deterministic Algorithm and Faster Algorithm for Submodular Maximization subject to a Matroid Constraint Authors: N. Buchbinder, M. Feldman
	Interactive Proofs for General Distribution Properties Authors: T. Herman, G. Rothblum	Tight Analyses of Ordered and Unordered Linear Probing Authors: M. Braverman, W. Kuszmaul	On Approximating Cutwidth and Pathwidth Authors: N. Bansal, D. Katzelnick, R. Schwartz
	Trading Determinism for Noncommutativity in Edmonds' Problem Authors: V. Arvind, A. Chatterjee, P. Mukhopadhyay	Tight Bounds for Classical Open Addressing Authors: M. Bender, W. Kuszmaul, R. Zhou	The Bidirected Cut Relaxation for Steiner Tree has Integrality Gap Smaller than 2. Authors: J. Byrka, F. Grandoni, V. Traub
	Π_2^p vs PSpace Dichotomy for the Quantified Constraint Satisfaction Problem Authors: D. Zhuk	Instance-Optimality in I/O-Efficient Sampling and Sequential Estimation Authors: S. Narayanan, V. Rozhoň, J. Tětek, M. Thorup	Efficient Approximation of Hypertree Width Authors: V. Surianarayanan, D. Lokshtanov, S. Saurabh, J. Xue, V. Korchemna
	Jump operators, Interactive Proofs and Proof Complexity Generators Authors: E. Khaniki	An Optimal Algorithm for Sorting Pattern-Avoiding Sequences Authors: M. Opler	Faster isomorphism testing of p-groups of Frattini class-2 Authors: G. Ivanyos, E. Mendoza, Y. Qiao, X. Sun, C. Zhang
6pm	Business Meeting		