

Day 1: Monday November 6, 2023

🕒	Track A (Sequoia A-B)	Track B (Sequoia C)	Track C (Sequoia D)
7:30 - 9:00	Registration		
9:00 - 10:15	Workshop: Exploring The Frontiers Of Adaptive Robustness	Workshop: Online Algorithms And Online Rounding: Recent Progress	Workshop: Algorithmic Aspects Of High-Dimensional Probabilistic Models
10:15 - 10:35	Break		
10:35 - 11:50	Session 1A	Session 1B	Session 1C
	<p>Graph Colouring is Hard on Average for Polynomial Calculus and Nullstellensatz</p> <p><i>Jonas Connerud (Lund University and University of Copenhagen); Susanna F. de Rezende (Lund University); Jakob Nordström, Shuo Pang (University of Copenhagen and Lund University); Kilian Risse (EPFL)</i></p>	<p>Thin trees for laminar families</p> <p><i>Nathan Klein (University of Washington); Neil Olver (London School of Economics and Political Science)</i></p>	<p>Envy-Free Cake-Cutting for Four Agents</p> <p><i>Alexandros Hollender (EPFL); Aviad Rubinfeld (Stanford University)</i></p>
	<p>Clique is Hard on Average for Unary Sherali-Adams</p> <p><i>Susanna de Rezende (Lund University); Aaron Potechin (University of Chicago); Kilian Risse (EPFL)</i></p>	<p>One Tree to Rule Them All: Poly-Logarithmic Universal Steiner Tree</p> <p><i>Costas Busch (Augusta University); Da Qi Chen (University of Virginia); Arnold Filtser (Bar-Ilan University); Daniel Hathcock (Carnegie Mellon University); D Ellis Hershkowitz (ETH Zurich); Rajmohan Rajaraman (Northeastern University)</i></p>	<p>Convergence of Approximate and Packet Routing Equilibria to Nash Flows Over Time</p> <p><i>Neil Olver (London School of Economics and Political Science); Leon Sering, Laura Vargas Koch (ETH Zurich)</i></p>
	<p>On Lifting Integrality Gaps to SSEH Hardness for Globally Constrained CSPs</p> <p><i>Suprovat Ghoshal (Northwestern University, TTIC); Euiwoong Lee (University of Michigan)</i></p>	<p>Optimal Fault-Tolerant Spanners in Euclidean and Doubling Metrics: Breaking the $\Omega(\log(n))$ Lightness Barrier</p> <p><i>Cuong Than (University of Massachusetts at Amherst); Shay Solomon (Tel Aviv University); Hung Le (University of Massachusetts at Amherst)</i></p>	<p>Simultaneous Auctions are Approximately Revenue-Optimal for Subadditive Bidders</p> <p><i>Yang Cai (Yale University); Ziyun Chen (Tsinghua University); Jinzhao Wu (Yale University)</i></p>
	<p>On small-depth Frege proofs for PHP</p> <p><i>Johan Håstad (KTH Royal Institute of Technology, Stockholm)</i></p>	<p>Sub-quadratic $(1+\epsilon)$-approximate Euclidean Spanner, with Applications</p> <p><i>Alexandr Andoni, Hengjie Zhang (Columbia University)</i></p>	<p>Constant Approximation for Private Interdependent Valuations</p> <p><i>Alon Eden (The Hebrew University of Jerusalem); Michal Feldman (Tel Aviv University); Kira Goldner (Boston University); Simon Mauras, Divyarthi Mohan (Tel Aviv University)</i></p>
11:50 - 1:45	Lunch (Poolside Lounge)		

1:45 - 3:00	Session 2A	Session 2B	Session 2C
	<p>Randomly Punctured Reed–Solomon Codes Achieve the List Decoding Capacity over Polynomial-Size Alphabets</p> <p><i>Zeyu Guo, Zihan Zhang (The Ohio State University)</i></p>	<p>Separating MAX 2-AND, MAX DI-CUT and MAX CUT</p> <p><i>Joshua Brakensiek (Stanford University); Neng Huang, Aaron Potechin (University of Chicago); Uri Zwick (Tel Aviv University)</i></p>	<p>The minimal canonical form of a tensor network</p> <p><i>Arturo Acuaviva (unaffiliated); Visu Makam (Radix trading); Harold Nieuwboer (University of Amsterdam); David Pérez-García (Universidad Complutense de Madrid); Friedrich Sittner (unaffiliated); Michael Walter (Ruhr-Universität Bochum); Freek Witteveen (University of Copenhagen)</i></p>
	<p>A proof that Reed-Muller codes achieve Shannon capacity on symmetric channels</p> <p><i>Emmanuel Abbe, Colin Sandon (EPFL)</i></p>	<p>Triplet Reconstruction and all other Phylogenetic CSPs are Approximation Resistant</p> <p><i>Vaggos Chatziafratis (UC Santa Cruz); Konstantin Makarychev (Northwestern University)</i></p>	<p>Query-optimal estimation of unitary channels in diamond distance</p> <p><i>Jeongwan Haah (Microsoft Research); Robin Kothari (Google); Ryan O'Donnell (Carnegie Mellon University); Ewin Tang (University of Washington)</i></p>
	<p>Gilbert and Varshamov Meet Johnson: List-Decoding Explicit Nearly-Optimal Binary Codes</p> <p><i>Silas Richelson, Sourya Roy (University of California, Riverside)</i></p>	<p>Improved Hardness of Approximating k-Clique under ETH</p> <p><i>Bingkai Lin (Nanjing University); Xuandi Ren (University of California, Berkeley); Yican Sun (Peking University); Xiuhua Wang (Tsinghua University)</i></p>	<p>When Does Adaptivity Help for Quantum State Learning?</p> <p><i>Sitan Chen (UC Berkeley, Harvard); Brice Huang (MIT); Jerry Li (Microsoft Research); Allen Liu (MIT); Mark Sellke (Amazon, Harvard)</i></p>
	<p>Optimal Testing of Generalized Reed-Muller Codes in Fewer Queries</p> <p><i>Dor Minzer, Kai Zhe Zheng (MIT)</i></p>	<p>Efficient Algorithms for Semirandom Planted CSPs at the Refutation Threshold</p> <p><i>Venkatesan Guruswami (UC Berkeley); Jun-Ting Hsieh, Pravesh K. Kothari, Peter Manohar (Carnegie Mellon University)</i></p>	<p>Exponential quantum speedup in simulating coupled classical oscillators</p> <p><i>Ryan Babbush (Google); Dominic Berry (Macquarie University); Robin Kothari, Rolando Somma (Google); Nathan Wiebe (University of Toronto)</i></p>
3:00 - 3:20	Break		

3:20 - 4:35	Session 3A	Session 3B	
	<p>Attribute-Based Encryption for Circuits of Unbounded Depth from Lattices</p> <p><i>Yao-Ching Hsieh, Huijia (Rachel) Lin, Ji Luo (University of Washington)</i></p>	<p>A Randomized Algorithm for Single-Source Shortest Path on Undirected Real-Weighted Graphs</p> <p><i>Ran Duan, Jiayi Mao (Tsinghua University); Xinkai Shu (The University of Hong Kong); Longhui Yin (Tsinghua University)</i></p>	
	<p>ABE for Circuits with $\text{poly}(\lambda)$-sized Keys from LWE</p> <p><i>Valerio Cini (AIT, Austria); Hoeteck Wee (NTT Research, USA)</i></p>	<p>Faster High Accuracy Multi-Commodity Flow from Single-Commodity Techniques</p> <p><i>Jan van den Brand, Daniel Zhang (Georgia Institute of Technology)</i></p>	
	<p>Learning in Pessiland via Inductive Inference</p> <p><i>Shuichi Hirahara (National Institute of Informatics); Mikito Nanashima (Tokyo Institute of Technology)</i></p>	<p>A Deterministic Almost-Linear Time Algorithm for Minimum-Cost Flow</p> <p><i>Jan van den Brand, Li Chen (Georgia Institute of Technology); Rasmus Kyng (ETH Zurich); Yang P. Liu (Stanford University); Richard Peng (University of Waterloo); Maximilian Probst Gutenberg (ETH Zürich); Sushant Sachdeva (University of Toronto); Aaron Sidford (Stanford University)</i></p>	
	<p>Kolmogorov Comes to Cryptomania: On Interactive Kolmogorov Complexity and Key-Agreement</p> <p><i>Marshall Ball (NYU); Yanyi Liu (Cornell University); Noam Mazon (Cornell Tech); Rafael Pass (Tel-Aviv University & Cornell Tech)</i></p>	<p>Negative-Weight Single-Source Shortest Paths in Near-Linear Time: Now Faster!</p> <p><i>Karl Bringmann, Alejandro Cassis (Saarland University and Max-Planck-Institute for Informatics); Nick Fischer (Weizmann Institute of Science)</i></p>	
4:35 - 4:55	Break		Community Session

4:55 6:10	Session 4A	Session 4B	
	<p>Advisor-Verifier-Prover Games and the Hardness of Information Theoretic Cryptography</p> <p><i>Oded Nir, Benny Applebaum (Tel Aviv University)</i></p>	<p>Bridge Girth: A Unifying Notion in Network Design</p> <p><i>Greg Bodwin, Gary Hoppenworth (University of Michigan); Ohad Trabelsi (Toyota Technological Institute at Chicago)</i></p>	
	<p>On Pseudolinear Codes for Correcting Adversarial Errors</p> <p><i>Eric Ruzomberka, Homa Nikbakht (Princeton University); Christopher G. Brinton (Purdue University); H. Vincent Poor (Princeton University)</i></p>	<p>Planar Disjoint Paths, Treewidth, and Kernels</p> <p><i>Michał Włodarczyk, Meirav Zehavi (Ben-Gurion University)</i></p>	
	<p>A New Approach to Post-Quantum Non-Malleability</p> <p><i>Xiao Liang (NTT Research); Omkant Pandey (Stony Brook University); Takashi Yamakawa (NTT Social Informatics Laboratories)</i></p>	<p>Flip-width: Cops and Robber on dense graphs</p> <p><i>Szymon Toruńczyk (University of Warsaw)</i></p>	
	<p>Separating Computational and Statistical Differential Privacy Under Plausible Assumptions</p> <p><i>Badih Ghazi (Google); Rahul Ilango (Massachusetts Institute of Technology); Pritish Kamath (Google Research); Ravi Kumar (Google); Pasin Manurangsi (Google Research)</i></p>	<p>Folklore Sampling is Optimal for Exact Hopsets: Confirming the $\sqrt{(n)}$ Barrier</p> <p><i>Greg Bodwin, Gary Hoppenworth (University of Michigan)</i></p>	
6:10 6:30	Break		
6:30 9:00	<p style="text-align: center;">Edit-A-Thon</p> <p style="text-align: center;">Let's get together and create or edit Wikipedia pages for CS Theory entries.</p> <p style="text-align: center;">Both new and experienced Wiki editors are welcome!</p> <p style="text-align: center;">Read more and sign up at https://sites.google.com/view/tcs-edit-a-thon.</p>		