

Oct 18th Sunday

8:00-8:45am	BREAKFAST	
Session 1 Islands Ballroom		
8:45-9:05	APPROXIMATING ATSP BY RELAXING CONNECTIVITY Ola Svensson	
9:10-9:30	EFFECTIVE-RESISTANCE-REDUCING FLOWS, SPECTRALLY THIN TREES, AND ASYMMETRIC TSP Nima Anari, Shayan Oveis Gharan	
9:35-9:55	COMPRESSING AND TEACHING FOR LOW VC-DIMENSION Shay Moran, Amir Shpilka, Avi Wigderson, Amir Yehudayoff	
10:00-10:20	ON MONOTONICITY TESTING AND BOOLEAN ISOPERIMETRIC TYPE THEOREMS Subhash Khot, Dor Minzer, Muli Safra	
10:20-10:50	COFFEE BREAK	
	Session 2A Belvedere/Angel	Session 2B Yerba Buena/Treasure
10:50-11:10	QUADRATIC CONDITIONAL LOWER BOUNDS FOR STRING PROBLEMS AND DYNAMIC TIME WARPING Karl Bringmann, Marvin Kunnemann <i>JOINT WITH</i> TIGHT HARDNESS RESULTS FOR LCS AND OTHER SEQUENCE SIMILARITY MEASURES Amir Abboud, Arturs Backurs, Virginia Vassilevska Williams	INDISTINGUISHABILITY OBFUSCATION FROM THE MULTILINEAR SUBGROUP ELIMINATION ASSUMPTION Craig Gentry, Allison Bishop Lewko, Amit Sahai, Brent Waters
11:15-11:35	IF THE CURRENT CLIQUE ALGORITHMS ARE OPTIMAL, SO IS VALIANT'S PARSER Amir Abboud, Arturs Backurs, Virginia Vassilevska Williams	INDISTINGUISHABILITY OBFUSCATION FROM FUNCTIONAL ENCRYPTION Nir Bitansky, Vinod Vaikuntanathan
11:40-12:00	LANGUAGE EDIT DISTANCE AND MAXIMUM LIKELIHOOD PARSING OF STOCHASTIC GRAMMARS: FASTER ALGORITHMS AND CONNECTION TO FUNDAMENTAL GRAPH PROBLEMS Barna Saha	LIMITS ON THE POWER OF INDISTINGUISHABILITY OBFUSCATION AND FUNCTIONAL ENCRYPTION Gilad Asharov, Gil Segev
12:05-12:25	PROBABILISTIC POLYNOMIALS AND HAMMING NEAREST NEIGHBORS Josh Alman, Ryan Williams	BLACK-BOX GARBLED RAM Sanjam Garg, Steve Lu, Rafail Ostrovsky
12:30-1:45	LUNCH	

	Session 3A Belvedere/Angel	Session 3B Yerba Buena/Treasure
2:25-2:45	CONSTRUCTING LINEAR-SIZED SPECTRAL SPARSIFICATION IN ALMOST-LINEAR TIME Yin Tat Lee, He Sun	ENABLING ROBUST AND EFFICIENT DISTRIBUTED COMPUTATION IN DYNAMIC PEER-TO-PEER NETWORKS John Augustine, Gopal Pandurangan, Peter Robinson, Scott Roche, Eli Upfal
2:50-3:10	GUARANTEED MATRIX COMPLETION VIA NON-CONVEX FACTORIZATION Ruoyu Sun, Zhi-Quan Luo	PLANAR REACHABILITY IN LINEAR SPACE AND CONSTANT TIME Jacob Holm, Eva Rotenberg, Mikkel Thorup
3:15-3:35	HEAVY-TAILED INDEPENDENT COMPONENT ANALYSIS Joseph Anderson, Navin Goyal, Anupama Nandi, Luis Rademacher,	TOWARDS AN OPTIMAL METHOD FOR DYNAMIC PLANAR POINT LOCATION Timothy M. Chan, Yakov Nekrich
3:40-4:00	INPUT SPARSITY AND HARDNESS FOR ROBUST SUBSPACE APPROXIMATION Kenneth L. Clarkson, David P. Woodruff	PATTERN-AVOIDING ACCESS IN BINARY SEARCH TREES Parinya Chalermsook, Mayank Goswami, Laszlo Kozma, Kurt Mehlhorn, Thatchaphol Saranurak
4:00-4:30	COFFEE BREAK	
	Session 4A Belvedere/Angel	Session 4B Yerba Buena/Treasure
4:30-4:50	THE AVERAGE SENSITIVITY OF BOUNDED-DEPTH FORMULAS Benjamin Rossman	THE SUBMODULAR SECRETARY PROBLEM GOES LINEAR Moran Feldman, Rico Zenklusen
4:55-5:15	THE POWER OF ASYMMETRY IN CONSTANT-DEPTH CIRCUITS Alexander A. Sherstov	COMPETITIVE FLOW TIME ALGORITHMS FOR POLYHEDRAL SCHEDULING Sungjin Im, Janardhan Kulkarni, Kamesh Munagala
5:20-5:40	DETERMINISTIC DIVISIBILITY TESTING VIA SHIFTED PARTIAL DERIVATIVES Michael A. Forbes	TIGHT BOUNDS FOR ONLINE VECTOR SCHEDULING Sungjin Im, Nathaniel Kell, Janardhan Kulkarni, Debmalya Panigrahi
5:45-6:05	HARDNESS OF APPROXIMATION IN PSPACE AND SEPARATION RESULTS FOR PEBBLE GAMES Siu Man Chan, Massimo Lauria, Jakob Nordstrom, Marc Vinyals	ONLINE BUY-AT-BULK NETWORK DESIGN Alina Ene, Deeparnab Chakrabarty, Ravishankar Krishnaswamy, Debmalya Panigrahi
9:00pm	BUSINESS MEETING AT <i>Belvedere/Angel room</i>	

Oct 19th Monday

8:00-8:45	BREAKFAST	
	Session 5A Belvedere/Angel	Session 5B Yerba Buena/Treasure
8:45-9:05	SOLVING THE CLOSEST VECTOR PROBLEM IN 2^n TIME : THE DISCRETE GAUSSIAN STRIKES AGAIN! Divesh Aggarwal, Daniel Dadush, Noah Stephens-Davidowitz	DIFFERENTIALLY PRIVATE RELEASE AND LEARNING OF THRESHOLD FUNCTIONS Mark Bun, Kobbi Nissim, Uri Stemmer, Salil Vadhan
9:10-9:30	A ROBUST SPARSE FOURIER TRANSFORM IN THE CONTINUOUS SETTING Eric Price, Zhao Song	ROBUST TRACEABILITY FROM TRACE AMOUNTS Cynthia Dwork, Adam Smith, Thomas Steinke, Jonathan Ullman, Salil Vadhan
9:35-9:55	BREAKING THE VARIANCE: APPROXIMATING THE HAMMING DISTANCE IN $O(\frac{1}{\epsilon})$ TIME PER ALIGNMENT Tsvi Kopelowitz ,Ely Porat	COMMUNITY DETECTION IN THE GENERAL STOCHASTIC BLOCK MODEL: FUNDAMENTAL LIMITS AND EFFICIENT ALGORITHMS FOR RECOVERY Emmanuel Abbe, Colin Sandon
10:00-10:20	APPROXIMATELY COUNTING TRIANGLES IN SUBLINEAR TIME Talya Eden, Amit Levi, Dana Ron, C. Seshadhri	HOW TO REFUTE A RANDOM CSP Sarah R. Allen, Ryan O'Donnell, David Witmer
10:20-10:50	COFFEE BREAK	
	Session 6A Belvedere/Angel	Session 6B Yerba Buena/Treasure
10:50-11:10	AN $O(1)$ -APPROXIMATION FOR MINIMUM SPANNING TREE INTERDICTION Rico Zenklusen	NEAR-OPTIMAL BOUNDS ON BOUNDED-ROUND QUANTUM COMMUNICATION COMPLEXITY OF DISJOINTNESS Mark Braverman, Ankit Garg, Young Kun Ko, Jieming Mao, Dave Touchette
11:15-11:35	REALITY DISTORTION: EXACT AND APPROXIMATE ALGORITHMS FOR EMBEDDING INTO THE LINE Amir Nayyeri, Benjamin Raichel	HAMILTONIAN SIMULATION WITH NEARLY OPTIMAL DEPENDENCE ON ALL PARAMETERS Dominic William Berry, Andrew MacGregor Childs, Robin Kothari
11:40-12:00	POLYLOGARITHMIC APPROXIMATIONS FOR THE CAPACITATED SINGLE-SINK CONFLUENT FLOW PROBLEM F.B. Shepherd, Adrian Vetta, Gordon T. Wilfong	QUANTUM EXPANDER CODES Anthony Leverrier, Jean-Pierre Tillich, Gilles Zémor
12:05-12:25	A LIGHT METRIC SPANNER Lee-Ad Gottlieb	ROBUST TESTING OF LIFTED CODES WITH APPLICATIONS TO LOW-DEGREE TESTING Alan Guo, Elad Haramaty, Madhu Sudan
12:30-1:45	LUNCH	

	Session 7A Belvedere/Angel	Session 7B Yerba Buena/Treasure
2:00-2:20	LOCAL CORRELATION BREAKERS AND APPLICATIONS TO THREE-SOURCE EXTRACTORS AND MERGERS Gil Cohen	EQUIVALENCE OF DETERMINISTIC TOP-DOWN TREE-TO-STRING TRANSDUCERS IS DECIDABLE Helmut Seidl, Sebastian Maneth, Gregor Kemper
2:25-2:45	THREE-SOURCE EXTRACTORS FOR POLYLOGARITHMIC MIN-ENTROPY Xin Li	FO MODEL CHECKING ON POSETS OF BOUNDED WIDTH Jakub Gajarsky, Petr Hlineny, Daniel Lokshantov, Jan Obdrzalek, Sebastian Ordyniak, M. S. Ramanujan, Saket Saurabh
2:50-3:10	BEYOND THE CENTRAL LIMIT THEOREM: ASYMPTOTIC EXPANSIONS AND PSEUDORANDOMNESS FOR COMBINATORIAL SUMS Anindya De	SATISFIABILITY OF ORDERING CSPs ABOVE AVERAGE IS FIXED-PARAMETER TRACTABLE Konstantin Makarychev, Yury Makarychev, Yuan Zhou
3:15-3:35	PSEUDORANDOMNESS VIA THE DISCRETE FOURIER TRANSFORM Parikshit Gopalan, Daniel Kane, Raghu Meka	PARAMETERIZING THE PERMANENT: GENUS, APICES, MINORS, EVALUATION MOD 2^k Radu Curticapean, Mingji Xia
3:40-4:00	TIGHT BOUNDS ON LOW-DEGREE SPECTRAL CONCENTRATION OF SUBMODULAR AND XOS FUNCTIONS Vitaly Feldman, Jan Vondrak	ISOMORPHISM TESTING FOR GRAPHS OF BOUNDED RANK WIDTH Martin Grohe, Pascal Schweitzer
4:00-4:30	COFFEE BREAK	
Session 8 Islands Ballroom		
4:30-4:50	AN AVERAGE-CASE DEPTH HIERARCHY THEOREM FOR BOOLEAN CIRCUITS [BEST PAPER AWARD] Benjamin Rossman, Rocco A. Servedio, Li-Yang Tan	
4:55-5:15	A FASTER CUTTING PLANE METHOD AND ITS IMPLICATIONS FOR COMBINATORIAL AND CONVEX OPTIMIZATION [BEST STUDENT PAPER AWARD] Yin Tat Lee, Aaron Sidford, Sam Chiu-wai Wong	
5:20-5:40	LOWER BOUNDS FOR CLIQUE VS. INDEPENDENT SET [BEST STUDENT PAPER AWARD] Mika Göös	

Oct 20th Tuesday

8:00-8:45	BREAKFAST	
	Session 9A Belvedere/Angel	Session 9B Yerba Buena/Treasure
9:10-9:30	NEW UNCONDITIONAL HARDNESS RESULTS FOR DYNAMIC AND ONLINE PROBLEMS Raphael Clifford, Allan Gronlund, Kasper Green Larsen	TRADING QUERY COMPLEXITY FOR SAMPLE-BASED TESTING AND MULTI-TESTING SCALABILITY Eldar Fischer, Oded Lachish, Yadu Vasudev
9:35-9:55	TIGHT HARDNESS OF THE NON-COMMUTATIVE GROTHENDIECK PROBLEM Jop Briet, Oded Regev, Rishi Saket	OPTIMAL ALGORITHMS AND LOWER BOUNDS FOR TESTING CLOSENESS OF STRUCTURED DISTRIBUTIONS Ilias Diakonikolas, Daniel M. Kane, Vladimir Nikishkin
10:00-10:20	NO SMALL LINEAR PROGRAM APPROXIMATES VERTEX COVER WITHIN A FACTOR $2 - \epsilon$ Abbas Bazzi, Samuel Fiorini, Sebastian Pokutta, Ola Svensson	ON THE STRUCTURE, COVERING, AND LEARNING OF POISSON MULTINOMIAL DISTRIBUTIONS Constantinos Daskalakis, Gautam Kamath, Christos Tzamos
10:20-10:50	COFFEE BREAK	
	Session 10A Belvedere/Angel	Session 10B Yerba Buena/Treasure
10:50-11:10	UNIFORM GENERATION OF RANDOM REGULAR GRAPHS Pu Gao, Nicholas Wormald	SAMPLE $\{X\}=\{A^*X< =T\}$ IS A DISTINGUISHER WITH PROBABILITY $1/8$ Mikkel Thorup
11:15-11:35	SYMBOLIC INTEGRATION AND THE COMPLEXITY OF COMPUTING AVERAGES Leonard J. Schulman, Alistair Sinclair, Piyush Srivastava	HASHING FOR STATISTICS OVER K-PARTITIONS Søren Dahlgaard, Mathias Bæk Tejs Knudsen, Eva Rotenberg, Mikkel Thorup
11:40-12:00	THE COMPLEXITY OF GENERAL-VALUED CSPs Vladimir Kolmogorov, Andrei Krokhin, Michal Rolinek	OPTIMAL INDUCED UNIVERSAL GRAPHS AND ADJACENCY LABELING FOR TREES Stephen Alstrup, Søren Dahlgaard, Mathias Bæk Tejs Knudsen
12:05-12:25	A HOLANT DICHOTOMY: IS THE FKT ALGORITHM UNIVERSAL? Jin-Yi Cai, Zhiguo Fu, Heng Guo, Tyson Williams	AN ALGORITHMIC PROOF OF THE LOVASZ LOCAL LEMMA VIA RESAMPLING ORACLES Nicholas J. A. Harvey, Jan Vondrak
12:30-1:45	LUNCH	

	Session 11A Belvedere/Angel	Session 11B Yerba Buena/Treasure
2:00-2:20	NON-BACKTRACKING SPECTRUM OF RANDOM GRAPHS: COMMUNITY DETECTION AND NON-REGULAR RAMANUJAN GRAPHS Charles Bordenave, Marc Lelarge, Laurent Massoulié	MIXTURE SELECTION, MECHANISM DESIGN, AND SIGNALING Yu Cheng, Ho Yee Cheung, Shaddin Dughmi, Ehsan Emamjomeh-Zadeh, Li Han, Shang-Hua Teng
2:25-2:45	INTERLACING FAMILIES IV: BIPARTITE RAMANUJAN GRAPHS OF ALL SIZES Adam W. Marcus, Daniel A. Spielman, Nikhil Srivastava	OPTIMAL AUCTION VS. ANONYMOUS PRICING Saeed Alaei, Jason Hartline, Rad Niazadeh, Emmanouil Pountourakis, Yang Yuan
2:50-3:10	INCIDENCES BETWEEN POINTS AND LINES IN R^4 Micha Sharir, Noam Solomon	ON THE COMPLEXITY OF OPTIMAL LOTTERY PRICING AND RANDOMIZED MECHANISMS Xi Chen, Ilias Diakonikolas, Anthi Orfanou, Dimitris Paparas, Xiaorui Sun, Mihalis Yannakakis
3:15-3:35	TALAGRAND'S CONVOLUTION CONJECTURE ON GAUSSIAN SPACE Ronen Eldan, James R. Lee	ON THE CRYPTOGRAPHIC HARDNESS OF FINDING A NASH EQUILIBRIUM Nir Bitansky, Omer Paneth, Alon Rosen
3:40-4:00	RANDOM MATRICES: L1 CONCENTRATION AND DICTIONARY LEARNING WITH FEW SAMPLES Kyle Luh, Van Vu	WELFARE MAXIMIZATION WITH LIMITED INTERACTION Noga Alon, Noam Nisan, Ran Raz, Omri Weinstein