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Program :

Monday August 24		
08:00 - 08:25	Registration	
08:25 - 08:30	Welcome	
08:30 - 09:25	Session 1: Invited talk	
	Pseudorandomness - old problems, new methods, and current challenges	Raghu Meka (University of California, Los Angeles)
09:25 - 09:45	Coffee Break	
09:45 - 10:50	**Session 2: RANDOM**	
	Dynamics for the mean-field random-cluster model	Antonio Blanca and Alistair Sinclair.
	Swendsen-Wang Algorithm on the Mean-Field Potts Model	Andreas Galanis, Daniel Stefankovic and Eric Vigoda.
	Harnessing the Bethe free energy	Victor Bapst and Amin Coja-Oghlan.
10:55 - 12:00	**Session 3: APPROX**	
	Improved NP-inapproximability for 2-variable linear equations	Johan Håstad, Sangxia Huang, Rajsekar Manokaran, Ryan O'Donnell and John Wright
	Inapproximability of H-Transversal/Packing	Venkatesan Guruswami and Euiwoong Lee.
	Approximate Hypergraph Coloring under Low-discrepancy and Related Promises	V.S.P. Vijay Bhattiprolu, Venkatesan Guruswami and Euiwoong Lee.
12:05 - 13:10	**Session 4: RANDOM**	
	Weighted Polynomial Approximations: Limits for Learning and Pseudorandomness	Mark Bun and Thomas Steinke.
	Towards Resistance Sparsifiers	Michael Dinitz, Robert Krauthgamer and Tal Wagner.
	Spectral Norm of Random Kernel Matrices with Applications to Privacy	Shiva Kasiviswanathan and Mark Rudelson.
13:10 - 14:30	lunch	
14:30 - 15:35	**Session 5: APPROX**	
	Towards a Characterization of Approximation Resistance for Symmetric CSPs	Venkatesan Guruswami and Euiwoong Lee.
	Approximating Dense Max 2-CSPs	Pasin Manurangsi and Dana Moshkovitz.
	Beating the random assignment on constraint satisfaction problems of bounded degree	Boaz Barak, Ankur Moitra, Ryan O'Donnell, Prasad Raghavendra, Oded Regev, David Steurer, Luca Trevisan, Aravindan Vijayaraghavan, David Witmer and John Wright.
15:35 - 15:55	Coffee Break	
15:55 - 17:00	**Session 6: RANDOM**	
	On Constant Size Graphs That Preserve the Local Structure of High Girth Graphs	Hendrik Fichtenberger, Pan Peng and Christian Sohler.
	Average Distance Queries through Weighted Samples in Graphs and Metric Spaces: High Scalability with Tight Statistical Guarantees	Shiri Chechik, Edith Cohen and Haim Kaplan.
	A Chasm Between Identity and Equivalence Testing with Conditional Queries	Jayadev Acharya, Clément Canonne and Gautam Kamath.
17:05 - 18:30	**Session 7: APPROX**	
	Stochastic and Robust Scheduling in the Cloud	Lin Chen, Nicole Megow, Roman Rischke and Leen Stougie.
	Minimizing maximum flow-time on related machines	Bouke Cloostermans and Nikhil Bansal.
	A 2-Competitive Algorithm For Online Convex Optimization With Switching Costs	Nikhil Bansal, Anupam Gupta, Ravishankar Krishnaswamy, Kirk Pruhs, Kevin Schewior and Clifford Stein.
	The Container Selection Problem	Viswanath Nagarajan, Kanthi Sarpatwar, Baruch Schieber, Hadas Shachnai and Joel Wolf.

Tuesday August 25		
08:30 - 09:25	Session 8: Invited talk	
	Improved Approximations for Graph-TSP in Regular Graphs	R. Ravi (Carnegie Mellon University)
09:25 - 09:45	Coffee Break	
09:45 - 10:50	**Session 9: APPROX**	
	On Linear Programming Relaxations for Unsplittable Flow in Trees	Zachary Friggstad and Zhihan Gao.
	On Approximating Node-Disjoint Paths in Grids	Julia Chuzhoy and David Kim.
	Terminal Embeddings	Michael Elkin, Arnold Filtser and Ofer Neiman.
10:55 - 12:00	**Session 10: RANDOM**	
	Deletion codes in the high-noise and high-rate regimes	Venkatesan Guruswami and Carol Wang.
	Communication with partial noiseless feedback	Bernhard Haeupler, Pritish Kamath and Ameya Velingker.
	On Fortification of Projection Games	Amey Bhangale, Ramprasad Saptharishi, Girish Varma and Rakesh Venkat.
12:05 - 13:10	**Session 11: APPROX**	
	Fully Dynamic Bin Packing Revisited	Sebastian Berndt, Klaus Jansen and Kim-Manuel Klein.
	How to Tame Rectangles: Solving Independent Set and Coloring of Rectangles via Shrinking	Anna Adamaszek, Parinya Chalermsook and Andreas Wiese.
	On guillotine cutting sequences	Fidaa Abed, Parinya Chalermsook, Jose Correa, Andreas Karrenbauer, Pablo Perez-Lantero, Jose Soto and Andreas Wiese.
13:10 - 14:30	lunch	
14:30 - 15:35	**Session 12: RANDOM**	
	A randomized online quantile summary in $O(\frac{1}{\epsilon}\log\frac{1}{\epsilon})$ words	David Felber and Rafail Ostrovsky.
	Zero-One Laws for Sliding Windows and Universal Sketches	Vladimir Braverman, Rafail Ostrovsky and Alan Roytman.
	Universal sketches for the frequency negative moments and other decreasing streaming sums	Stephen Chestnut and Vladimir Braverman.
15:35 - 15:55	Coffee Break	
15:55 - 17:00	**Session 13: APPROX**	
	Approximating Hit Rate Curves using Streaming Algorithms	Zachary Drudi, Nicholas Harvey, Stephen Ingram, Andrew Warfield and Jake Wires.
	Tight Bounds for Graph Problems in Insertion Streams	Xiaoming Sun and David Woodruff.
	Large Supports are required for Well-Supported Nash Equilibria	Yogesh Anbalagan, Hao Huang, Shachar Lovett, Sergey Norin, Adrian Vetta and Hehui Wu.
17:05 - 18:30	**Session 14: RANDOM**	
	Separating decision tree complexity from subcube partition complexity	Robin Kothari, David Racicot-Desloges and Miklos Santha.
	Internal compression of protocols to entropy	Shay Moran, Amir Yehudayoff and Balthazar Bauer.
	Correlation in Hard Distributions in Communication Complexity	Dmitry Gavinsky, Hartmut Klauck and Ralph Bottesch.
	Dependent Random Graphs and Multiparty Pointer Jumping	Joshua Brody and Mario Sanchez.
18:30 - 20:00	Reception	

Wednesday August 26		
08:30 - 09:55	**Session 15: RANDOM**	
	Deterministically Factoring Sparse Polynomials into Multilinear Factors and Sums of Univariate Polynomials	Ilya Volkovich.
	Two Structural Results for Low Degree Polynomials and Applications	Gil Cohen and Avishay Tal.
	Decomposing Overcomplete 3rd Order Tensors using Sum-of-Squares Algorithms	Rong Ge and Tengyu Ma.
	Dimension Expanders via Rank Condensers	Michael A. Forbes and Venkatesan Guruswami.
09:55 - 10:15	Coffee Break	
10:15 - 11:40	**Session 16: APPROX**	
	Improved Bounds in Stochastic Matching and Optimization	Alok Baveja, Amit Chavan, Andrei Nikiforov, Aravind Srinivasan and Pan Xu.
	A Tight Approximation Bound for the Stable Marriage Problem with Restricted Ties	Chien-Chung Huang, Kazuo Iwama, Shuichi Miyazaki and Hiroki Yanagisawa.
	Approximate Nearest Neighbor Search in Metrics of Planar Graphs	Ittai Abraham, Shiri Chechik, Robert Krauthgamer and Udi Wieder
	Non-Uniform Robust Network Design in Planar Graphs	David Adjiashvili.
11:45 - 12:50	**Session 17: RANDOM**	
	Learning circuits with few negations	Eric Blais, Clément Canonne, Igor Carboni Oliveira, Rocco Servedio and Li-Yang Tan.
	Negation-Limited Formulas	Siyao Guo and Ilan Komargodski.
	Tighter Connections between Derandomization and Circuit Lower Bounds	Marco Carmosino, Russell Impagliazzo, Valentine Kabanets and Antonina Kolokolova.
12:50 - 14:00	Lunch	
14:00 - 15:05	**Session 18: APPROX**	
	Designing Overlapping Networks for Publish-Subscribe Systems	Jennifer Iglesias, Rajmohan Rajaraman, R. Ravi and Ravi Sundaram.
	Approximating Upper Degree-Constrained Partial Orientations	Marek Cygan and Tomasz Kociumaka.
	Sequential Importance Sampling Algorithms for Estimating the All-Terminal Reliability Polynomial of Sparse Graphs	David Harris and Francis Sullivan.
15:10 - 16:35	**Session 19: RANDOM**	
	The minimum bisection in the planted bisection model	Amin Coja-Oghlan, Oliver Cooley, Mihyun Kang and Kathrin Skubch.
	Local convergence of random graph colorings	Amin Coja-Oghlan, Charilaos Efthymiou and Nor Jaafari.
	Reconstruction/Non-reconstruction Thresholds for Colourings of General Galton-Watson Trees	Charilaos Efthymiou.
	Distance-based species tree estimation: information-theoretic trade-off between number of loci and sequence length under the coalescent	Elchanan Mossel and Sebastien Roch.