

| 24-08-15 | | |
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| 08:00 - 08:25 | Registration | |
| 08:25 - 08:30 | Welcome | |
| 08:30 - 09:25 | Session 1: Invited talk (APPROX), Chair: Naveen Garg | |
| | TBA | Subhash Khot |
| 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. |

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| | 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. |
| 25/08/2015 | | |
| 08:30 - 09:25 | Session 8: Invited talk (RANDOM), Chair: Anup Rao | |
| | TBA | Raghu Meka |
| 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 | |

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| | 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 | |
| 26/08/2015 | | |
| 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 |

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| | Non-Uniform Robust Network Design in Planar Graphs | David Adjashvili. |
| 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. |