

TUESDAY

July 11

08:45 - 09:00 Opening Address, Sevag Gharibian |> Auditorium (HNF)

09:00 - 10:00 Keynote talk – Quantum codes, local testability and interactive proofs: state of the art and open questions, Thomas Vidick |> Auditorium (HNF)

10:00 - 10:30 Coffee break |> Meeting Area (HNF)

10:30 - 12:30 Track A-1: Efficient algorithms (+ parameterized complexity) |> Seminar Room 1+2 (HNF)



10:30 Approximating Long Cycle Above Dirac's Guarantee <i>Fedor Fomin, Petr Golovach, Danil Sagunov and Kirill Simonov</i>	10:55 Breaking the All Subsets Barrier for Min k -Cut <i>Vaishali Surianarayanan, Daniel Lokshantov and Saket Saurabh</i>	11:20 Compound Logics for Modification Problems <i>Fedor Fomin, Petr Golovach, Ignasi Sau, Giannos Stamoulis and Dimitrios M. Thilikos</i>	11:45 Nearly-Linear Time LP Solvers and Rounding Algorithms for Scheduling Problems <i>Shi Li</i>	12:10 New Partitioning Techniques and Faster Algorithms for Approximate Interval Scheduling <i>Spencer Compton, Slobodan Mitrović and Ronitt Rubinfeld</i>
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10:30 - 12:30 Track A-2: Distributed computing and networks |> Seminar Room 4 (HNF)



10:30 Optimal (degree+1)-Coloring in Congested Clique <i>Sam Coy, Artur Czumaj, Peter Davies and Gopinath Mishra</i>	10:55 New Additive Emulators <i>Shimon Kogan and Merav Parter</i>	11:20 Protecting Single-Hop Radio Networks from Message Drops <i>Dmitry Paramonov, Gillat Kol, Klim Efremenko and Raghuvansh R. Saxena</i>	11:45 Approximation Algorithms for Network Design in Non-Uniform Fault Models <i>Chandra Chekuri and Rhea Jain</i>	12:10 Frameworks for Nonclairvoyant Network Design with Deadlines or Delay <i>Noam Touitou</i>
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10:30 - 12:30 Track A-3: Probabilistic analysis |> Seminar Room 5 (HNF)



10:30 Nondeterministic Refutations for Nearest Boolean Vector <i>Andrej Bogdanov and Alon Rosen</i>	10:55 Average-Case to (shifted) Worst-Case Reduction for the Trace Reconstruction Problem <i>Ittai Rubinfeld</i>	11:20 Cliques in High-Dimensional Geometric Inhomogeneous Random Graphs <i>Tobias Friedrich, Andreas Göbel, Maximilian Katzmann and Leon Schiller</i>	11:45 On Sparsification of Stochastic Packing Problems <i>Shaddin Dughmi, Yusuf Hakan Kalaycı and Neel Patel</i>	12:10 The wrong direction of Jensen's inequality is algorithmically right <i>Or Zamir</i>
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10:30 - 12:30 Track A-4: Mixed topics |> F0.530 (HNI)



10:30 Searching for Regularity in Bounded Functions <i>Michael Whitmeyer and Siddharth Iyer</i>	10:55 A Sparse Johnson-Lindenstrauss Transform using Fast Hashing <i>Jakob Bæk Tejs Houen and Mikkel Thorup</i>	11:20 A Hyperbolic Extension of Kadison-Singer Type Results <i>Ruizhe Zhang and Xinzhi Zhang</i>	11:45 The Impacts of Dimensionality, Diffusion, and Directedness on Intrinsic Cross-Model Simulation in Tile-Based Self-Assembly <i>Daniel Hader and Matthew Patitz</i>	12:10 Completely Reachable Automata: A Polynomial Algorithm and Quadratic Upper Bounds <i>Robert Ferens and Marek Szykuła</i>
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10:30 - 12:30 Track B: Automata and Games |> Seminar Room 3 (HNF)



10:30 Deterministic regular functions of infinite words <i>Olivier Carton, Gaëtan Douéneau-Tabot, Emmanuel Filiot, and Sarah Winter</i>	10:55 On Semantically-Deterministic Automata <i>Bader Abu Radi and Orna Kupferman</i>	11:20 Algebraic Recognition of Regular Functions <i>Mikołaj Bojańczyk and Lê Thành Dũng Nguyễn</i>	11:45 How to Play Optimally for Regular Objectives? <i>Patricia Bouyer, Nathanaël Fijalkow, Mickael Randour, and Pierre Vandenholve</i>	12:10 Characterising memory in infinite games <i>Antonio Casares and Pierre Ohlmann</i>
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12:30 - 14:00 Lunch |> Lower Floor (HNF)

14:00 - 15:00 Keynote talk – The Skolem Landscape, James Worrell |> Auditorium (HNF)

15:00 - 15:30 Coffee break |> Meeting Area (HNF)

15:30 - 17:05 Track A-1: AGT/Social choice |> Seminar Room 1+2 (HNF)



15:30 Low Sample Complexity Participatory Budgeting <i>Mohak Goyal, Sukolsak Sakshuwong, Sahasrajit Sarmasarkar and Ashish Goel</i>	15:55 Approximation Algorithms for Envy-Free Cake Division with Connected Pieces <i>Siddharth Barman and Pooja Kulkarni</i>	16:20 Truthful Matching with Online Items and Offline Agents <i>Michal Feldman, Federico Fusco, Simon Mauras and Rebecca Reiffenhäuser</i>	16:45 Stable Matching: Choosing Which Proposals to Make <i>Ishan Agarwal and Richard Cole</i>
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15:30 - 17:05 Track A-2: Quantum computing |> Seminar Room 4 (HNF)



15:30 #CSP Equality Corresponds to Quantum Isomorphism - A Holant Viewpoint <i>Jin-Yi Cai and Ben Young</i>	15:55 Decidability of fully quantum nonlocal games with noisy maximally entangled states <i>Minglong Qin and Penghui Yao</i>	16:20 Quantum cryptography with classical communication - Parallel remote state preparation for copy-protection, verification, and more <i>Alexandru Gheorghiu, Tony Metger and Alexander Poremba</i>	16:45 Parallel self-testing of EPR pairs under computational assumptions <i>Honghao Fu, Daochen Wang and Qi Zhao</i>
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15:30 - 17:05 Track A-3: Data structures |> Seminar Room 5 (HNF)



15:30 On Range Summary Queries <i>Peyman Afshani, Pingan Cheng, Aniket Basu Roy and Zhewei Wei</i>	15:55 Efficient Data Structures for Incremental Exact and Approximate Maximum Flow <i>Gramoz Goranci and Monika Henzinger</i>	16:20 Fault-Tolerant ST-Diameter Oracles <i>Davide Bilò, Keerti Choudhary, Sarel Cohen, Tobias Friedrich, Simon Krogmann and Martin Schirneck</i>	16:45 Optimal Adjacency Labels for Subgraphs of Cartesian Products <i>Louis Esperet, Nathaniel Harms and Viktor Zamaraev</i>
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15:30 - 17:05 Track A-4: Sublinear algorithms, streaming |> F0.530 (HNI)



15:30 Lower Bounds for Pseudo-Deterministic Counting in a Stream <i>Vladimir Braverman, Robert Krauthgamer, Aditya Krishnan and Shay Sapir</i>	15:55 Streaming k -edit approximate pattern matching via string decomposition <i>Sudatta Bhattacharya and Michal Koucky</i>	16:20 Sublinear Algorithms and Lower Bounds for Estimating MST and TSP Cost in General Metrics <i>Sanjeev Khanna, Yu Chen and Zihan Tan</i>	16:45 Sublinear Time Eigenvalue Approximation via Random Sampling <i>Rajarshi Bhattacharjee, Gregory Dexter, Petros Drineas, Cameron Musco and Archan Ray</i>
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15:30 - 17:05 Track B: Decision Procedures |> Seminar Room 3 (HNF)



15:30 Positivity Problems for Reversible Linear Recurrence Sequences <i>George Kenison, Joris Nieuwveld, Joël Ouaknine, and James Worrell</i>	15:55 On the Limits of Decision: the Adjacent Fragment of First-Order Logic <i>Bartosz Bednarczyk, Ian Pratt-Hartmann, and Daumantas Kojelis</i>	16:20 The complexity of Presburger arithmetic with power or powers <i>Michael Benedikt, Dmitry Chistikov, and Alessio Mansutti</i>	16:45 On the complexity of diameter and related problems in permutation groups <i>Markus Lohrey and Andreas Rosowski</i>
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17:05 - 13:30 Break |> Meeting Area (HNF)

17:30 - 18:00 Bus Transfer

18:00 - 19:00 City Tour

19:00 - 22:00 Reception at historical City Hall

WEDNESDAY

July 12

09:00 - 10:00 Keynote talk – (Slightly) Improved Approximation Algorithm for the Metric Traveling Salesperson Problem, Anna Karlin → Auditorium (HNF)

10:00 - 10:30 Coffee break → Meeting Area (HNF)

10:30 - 12:30 Track A-1: Approximation Algorithms → Seminar Room 1+2 (HNF)



<p>10:30</p> <p>Finding Almost Tight Witness Trees <i>Dylan Hyatt-Denesik, Afrouz Ameli and Laura Sanita</i></p>	<p>10:55</p> <p>Matching Augmentation via Simultaneous Contractions <i>Mohit Garg, Felix Hommelsheim and Nicole Megow</i></p>	<p>11:20</p> <p>Improved Approximation Algorithms by Generalizing the Primal-Dual Method Beyond Uncrossable Functions <i>Ishan Bansal, Joe Cheriyan, Logan Grout and Sharat Ibrahimpur</i></p>	<p>11:45</p> <p>An $O(\log k)$ - Approximation for Directed Steiner Tree in Planar Graphs <i>Zachary Friggstad and Ramin Mousavi</i></p>	<p>12:10</p> <p>A Tight $(1.5+\epsilon)$-Approximation for Unsplittable Capacitated Vehicle Routing on Trees <i>Claire Mathieu and Hang Zhou</i></p>
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10:30 - 12:30 Track A-2: Computational geometry → Seminar Room 4 (HNF)



<p>10:30</p> <p>On the Fine-Grained Complexity of Small-Size Geometric Set Cover and Discrete k-Center for Small k <i>Timothy M. Chan, Qizheng He and Yuancheng Yu</i></p>	<p>10:55</p> <p>Rerouting Planar Curves and Disjoint Paths <i>Takehiro Ito, Yuni Iwamura, Naonori Kakimura, Yusuke Kobayashi, Shunichi Maezawa, Yuta Nozaki, Yoshio Okamoto and Kenta Ozeki</i></p>	<p>11:20</p> <p>Approximate Nearest Neighbor for Polygonal Curves under Frechet Distance <i>Siu-Wing Cheng and Haoqiang Huang</i></p>	<p>11:45</p> <p>Ortho-radial Drawing in Near-linear Time <i>Yi-Jun Chang</i></p>	<p>12:10</p> <p>The Geometry of Tree-Based Sorting <i>Magdalen Dobson and Guy Blelloch</i></p>
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10:30 - 12:30 Track A-3: Random walks and related topics → Seminar Room 5 (HNF)



<p>10:30</p> <p>Parameter estimation for Gibbs distributions <i>David Harris and Vladimir Kolmogorov</i></p>	<p>10:55</p> <p>On the Mixing Time of Glauber Dynamics for the Hard-core and Related Models on $G(n,d/n)$ <i>Charilaos Efthymiou and Weiming Feng</i></p>	<p>11:20</p> <p>Broadcasting with Random Matrices <i>Tobias Friedrich, Andreas Göbel, Konstantinos Zampetakis and Charilaos Efthymiou</i></p>	<p>11:45</p> <p>Improved mixing for the convex polygon triangulation flip walk <i>David Eppstein and Daniel Frishberg</i></p>	<p>12:10</p> <p>The Support of Open versus Closed Random Walks <i>Thomas Sauerwald, He Sun and Danny Vagnozzi</i></p>
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10:30 - 12:30 Track A-4: Computational and communication complexity, and hardness → F0.530 (HNI)



<p>10:30</p> <p>Low-depth arithmetic circuit lower bounds: Bypassing set-multilinearization <i>Prashanth Amireddy, Ankit Garg, Neeraj Kayal, Chandan Saha and Bhargav Thankey</i></p>	<p>10:55</p> <p>New PRGs for Unbounded-width/ Adaptive-order Read-once Branching Programs <i>Lijie Chen, Xin Lyu, Avishay Tal and Hongxun Wu</i></p>	<p>11:20</p> <p>The Communication Complexity of Set Intersection under Product Distributions <i>Rotem Oshman and Tal Roth</i></p>	<p>11:45</p> <p>Robust Communication Complexity of Matching: EDCS Achieves 5/6 Approximation <i>Amir Azarmehr and Soheil Behnezhad</i></p>	<p>12:10</p> <p>Hardness of Finding Combinatorial Shortest Paths on Graph Associahedra <i>Takehiro Ito, Naonori Kakimura, Naoyuki Kamiyama, Yusuke Kobayashi, Shun-ichi Maezawa, Yuta Nozaki and Yoshio Okamoto</i></p>
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10:30 - 12:30 Track B: Logic and Graph Structure Theory → Seminar Room 3 (HNF)



<p>10:30</p> <p>Indiscernibles and Wideness in Monadically Stable and Monadically NIP Classes <i>Jan Dreier, Nikolas Mählmann, Sebastian Siebertz, and Szymon Toruńczyk</i></p>	<p>10:55</p> <p>Flipper games for monadically stable graph classes <i>Jakub Gajarský, Nikolas Mählmann, Rose McCarty, Pierre Ohlmann, Michał Pilipczuk, Wojciech Przybyszewski, Sebastian Siebertz, Marek Sokolowski and Szymon Toruńczyk</i></p>	<p>11:20</p> <p>Canonical decompositions in monadically stable and bounded shrubdepth graph classes <i>Pierre Ohlmann, Michał Pilipczuk, Wojciech Przybyszewski and Szymon Toruńczyk</i></p>	<p>11:45</p> <p>Monadic NIP in monotone classes of relational structures <i>Samuel Braumfeld, Anuj Dawar, Ioannis Eleftheriadis and Aris Papadopoulos</i></p>	<p>12:10</p> <p>First Order Logic on Pathwidth Revisited Again <i>Michael Lampis</i></p>
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12:30 - 14:00 Lunch → Lower Floor (HNF)

14:00 - 16:00 ICALP 2023 Award-Winning Papers → Auditorium (HNF)



<p>14:00</p> <p>Best Student Paper Track A: Minimum Chain Cover in Almost Linear Time <i>Manuel Cáceres</i></p>	<p>14:25</p> <p>Best Student Paper Track B: The Identity Problem in $\mathbb{Z} \wr \mathbb{Z}$ is decidable <i>Ruiwen Dong</i></p>	<p>14:50</p> <p>Best Paper Track A: Online Learning and Disambiguations of Partial Concept Classes <i>Tsun-Ming Cheung, Hamed Hatami, Pooya Hatami and Kaave Hosseini</i></p>	<p>15:15</p> <p>Best Paper Track B: Coverability in VASS Revisited: Improving Rackoff's Bound to Obtain Conditional Optimality <i>Marvin Künnemann, Filip Mazowiecki, Lia Schütze, Henry Sinclair-Banks and Karol Węgrzycki</i></p>	<p>15:40</p> <p>Best Paper Track A: A 4/3 Approximation for 2-Vertex-Connectivity <i>Miguel Bosch Calvo, Fabrizio Grandoni and Afrouz Jabal Ameli</i></p>
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16:00 - 16:30 Coffee break → Meeting Area (HNF)

16:30 - 19:30 Award Ceremony & EATCS Award Talk & EATCS General Assembly → Auditorium (HNF)

<p>16:30</p> <p>Award Ceremony Speaker: Artur Czumaj</p>	<p>17:00</p> <p>EATCS Award 2023 Speaker: Amos Fiat</p>	<p>17:45</p> <p>EATCS General Assembly 2023 Speaker: Artur Czumaj</p>
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19:30 - 22:30 BBQ in HNF Garden → Garden (HNF)

THURSDAY

July 13

09:00 - 10:00 Keynote talk – Context-Bounded Analysis of Concurrent Programs, Rupak Majumdar | Auditorium (HNF)

10:00 - 10:30 Coffee break | Meeting Area (HNF)

10:30 - 12:30 Track A-1: Quantum computing | Seminar Room 1+2 (HNF)



20 min

<p>10:30</p> <p>Quantum Algorithms and Lower Bounds for Linear Regression with Norm Constraints <i>Yanlin Chen and Ronald de Wolf</i></p>	<p>10:55</p> <p>Simulating Markovian open quantum systems using higher-order series expansion <i>Xiantao Li and Chunhao Wang</i></p>	<p>11:20</p> <p>Improved Product-state Approximation Algorithms for Quantum Local Hamiltonians <i>Thiago Bergamaschi</i></p>	<p>11:45</p> <p>Improved Hardness Results for the Guided Local Hamiltonian Problem <i>Ryu Hayakawa, Jordi Weggemans, Tomoyuki Morimae, Chris Cade, Marten Folkertsma, Sevag Gharibian and Francois Le Gall</i></p>	<p>12:10</p> <p>Cumulative Memory Lower Bounds for Randomized and Quantum Computation <i>Paul Beame and Niels Komerup</i></p>
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10:30 - 12:30 Track A-2: Parameterized complexity | Seminar Room 4 (HNF)



20 min

<p>10:30</p> <p>Twin-width of Planar Graphs is at most 8, and at most 6 when Bipartite Planar <i>Petr Hlineny and Jan Jedelský</i></p>	<p>10:55</p> <p>Parameterised and Fine-grained Subgraph Counting, modulo 2 <i>Leslie Ann Goldberg and Marc Roth</i></p>	<p>11:20</p> <p>Tight Bounds for Chordal/Interval Vertex Deletion Parameterized by Treewidth <i>Michał Włodarczyk</i></p>	<p>11:45</p> <p>Faster parameterized algorithms for modification problems to minor-closed classes <i>Laure Morelle, Ignasi Sau, Giannos Stamoulis and Dimitrios M. Thilikos</i></p>	<p>12:10</p> <p>Parameterized Complexity of Binary CSP: Vertex Cover, Treedepth, and Related Parameters <i>Hans L. Bodlaender, Carla Groenland and Michał Pilipczuk</i></p>
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10:30 - 12:30 Track A-3: Approximation Algorithms | Seminar Room 5 (HNF)



20 min

<p>10:30</p> <p>Connected k-Center and k-Diameter Clustering <i>Lukas Drexler, Jan Eube, Kelin Luo, Heiko Röglin, Melanie Schmidt and Julian Wargalla</i></p>	<p>10:55</p> <p>Multi Layer Peeling for Linear Arrangement and Hierarchical Clustering <i>Yossi Azar and Danny Vainstein</i></p>	<p>11:20</p> <p>Approximating Max-Cut on Bounded Degree Graphs: Tighter Analysis of the FKL Algorithm <i>Jun-Ting Hsieh and Pravesh Kothari</i></p>	<p>11:45</p> <p>An EPTAS for Budgeted Matching and Budgeted Matroid Intersection <i>Ilan Doron, Ariel Kulik and Hadas Shachnai</i></p>	<p>12:10</p> <p>Scheduling under Non-Uniform Job and Machine Delays <i>David Stalf, Rajmohan Rajaraman and Sheng Yang</i></p>
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10:30 - 12:30 Track A-4: Graphs, hypergraphs and strings | F0.530 (HNI)



20 min

<p>10:30</p> <p>Local Computation Algorithms for Hypergraph Coloring - following Beck's approach <i>Andrzej Dorobisz and Jakub Kozik</i></p>	<p>10:55</p> <p>Nearly Tight Spectral Sparsification of Directed Hypergraphs <i>Kazusato Oka, Shinsaku Sakaue and Shin-ichi Tanigawa</i></p>	<p>11:20</p> <p>Expander Decomposition with Fewer Inter-Cluster Edges Using a Spectral Cut Player <i>Daniel Agassy, Dani Dorfman and Haim Kaplan</i></p>	<p>11:45</p> <p>On Finding Constrained Independent Sets in Cycles <i>Ishay Haviv</i></p>	<p>12:10</p> <p>Convergence of the number of period sets in strings <i>Eric Rivals, Michelle Sweering and Pengfei Wang</i></p>
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10:30 - 12:30 Track B: Models of Systems | Seminar Room 3 (HNF)



20 min

<p>10:30</p> <p>Action Codes <i>Frits Vaandrager and Thorsten Wilsmann</i></p>	<p>10:55</p> <p>Probabilistic Guarded KAT Modulo Bisimilarity: Completeness and Complexity <i>Wojciech Rozowski, Tobias Kappé, Dexter Kozen, Todd Schmid and Alexandra Silva</i></p>	<p>11:20</p> <p>Population Protocols with Unordered Data <i>Michael Blondin and François Ladouceur</i></p>	<p>11:45</p> <p>Nominal Topology for Data Languages <i>Fabian Birkmann, Stefan Milius, and Henning Urbat</i></p>	<p>12:10</p> <p>Compositionality of planar perfect matchings, a universal and complete fragment of ZW-calculus <i>Titouan Carette, Etienne Moutot, Thomas Perez, and Renaud Vilmart</i></p>
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12:30 - 14:00 Lunch | Lower Floor (HNF)

14:00 - 15:30 Presburger & Church Award Talks | Auditorium (HNF)

<p>14:00</p> <p>Alonzo Church Award 2023 Speaker: Robbert Krebbers</p>	<p>14:44</p> <p>Presburger Award 2023 Speaker: Aaron Bernstein</p>	<p>15:07</p> <p>Presburger Award 2023 Speaker: Thatchaphol Saranurak</p>
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15:30 - 16:00 Coffee break | Meeting Area (HNF)

16:00 - 17:10 Track A-1: Dynamic algorithms | Seminar Room 1+2 (HNF)



20 min

<p>16:00</p> <p>Optimal Decremental Connectivity in Non-Sparse Graphs <i>Anders Aamand, Adam Karczmarz, Jakub Łącki, Nikos Parotsidis, Peter Rasmussen and Mikkel Thorup</i></p>	<p>16:25</p> <p>Dynamic Averaging Load Balancing on Arbitrary Graphs <i>Petra Berenbrink, Lukas Hintze, Hamed Hosseinpour, Dominik Kaaser and Malin Rau</i></p>	<p>16:50</p> <p>Fully Dynamic Shortest Paths and Reachability in Sparse Digraphs <i>Adam Karczmarz and Piotr Sankowski</i></p>
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16:00 - 17:10 Track A-2: Math programming | Seminar Room 4 (HNF)



20 min

<p>16:00</p> <p>Space-Efficient Interior Point Method, with applications to Linear Programming and Maximum Weight Bipartite Matching <i>Sixue Liu, Zhao Song, Hengjie Zhang, Lichen Zhang and Tianyi Zhou</i></p>	<p>16:25</p> <p>Lasserre Hierarchy for Graph Isomorphism and Homomorphism Indistinguishability <i>David E. Roberson and Tim Seppelt</i></p>	<p>16:50</p> <p>Ellipsoid Fitting Up to a Constant <i>Jun-Ting Hsieh, Pravesh Kothari, Aaron Potechin and Jeff Xu</i></p>
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15:30 - 17:05 Track A-3: Property Testing | Seminar Room 5 (HNF)



20 min

<p>16:00</p> <p>Isoperimetric Inequalities for Real-Valued Functions with Applications to Monotonicity Testing <i>Hadley Black, Iden Kalemaj and Sofya Raskhodnikova</i></p>	<p>16:25</p> <p>An Optimal Separation between Two Property Testing Models for Bounded Degree Directed Graphs <i>Pan Peng and Yuyang Wang</i></p>	<p>16:50</p> <p>Sample-based distance-approximation for subsequence-freeness <i>Dana Ron and Omer Cohen Sidon</i></p>
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15:30 - 17:05 Track B: Verification and Testing | Seminar Room 3 (HNF)



20 min

<p>16:00</p> <p>Checking Refinement of Asynchronous Programs against Context-Free Specifications <i>Pascal Baumann, Moses Ganardi, Rupak Majumdar, Ramanathan Thinniyam Srinivasan, and Georg Zetsche</i></p>	<p>16:25</p> <p>Regular Methods for Operator Precedence Languages <i>Thomas Henzinger, Pavol Kebis, Nicolas Mazzocchi, and N. Ege Saraç</i></p>	<p>16:50</p> <p>Black-box Testing Liveness Properties of Partially Observable Stochastic Systems <i>Javier Esparza and Vincent Grande</i></p>
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17:15 - 18:15 50th ICALP Anniversary Session | Auditorium (HNF)

<p>17:15</p> <p>Opening Speech for the 50th ICALP Anniversary Session Speaker: Burkhard Monien</p>	<p>17:20</p> <p>50 Years of ICALP, Personal Reminiscences Speaker: Kurt Mehlhorn</p>	<p>17:50</p> <p>From Formal Methods for Continuous Systems to the Safety of Neural Network Controllers Speaker: Thomas Henzinger</p>
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18:15 - 18:30 Break

18:30 - 19:00 Bus Transfer

19:00 - 22:00 Conference dinner at Detmolder Brewery

FRIDAY

July 14

09:00 - 10:00	Keynote talk – An Almost-Linear Time Algorithm for Maximum Flow and More, Rasmus Kyng	Auditorium (HNF)										
10:00 - 10:30	Coffee break	Meeting Area (HNF)										
10:30 - 12:30	Track A-1: Efficient algorithms	Seminar Room 1+2 (HNF)										
20 min	<table border="1"> <tr> <td>10:30</td> <td>Fast approximation of search trees on trees with centroid trees <i>Benjamin Aram Berendsohn, Ishay Golinsky, Haim Kaplan and Laszlo Kozma</i></td> </tr> <tr> <td>10:55</td> <td>Faster Matroid Partition Algorithms <i>Tatsuya Terao</i></td> </tr> <tr> <td>11:20</td> <td>Faster submodular maximization for several classes of matroids <i>Monika Henzinger, Paul Liu, Jan Vondrák and Da Wei Zheng</i></td> </tr> <tr> <td>11:45</td> <td>On computing the vertex connectivity of 1-plane graphs <i>Karthik Murali and Therese Biedl</i></td> </tr> <tr> <td>12:10</td> <td>An Efficient Algorithm for All-Pairs Bounded Edge Connectivity <i>Shyan Akmal and Ce Jin</i></td> </tr> </table>	10:30	Fast approximation of search trees on trees with centroid trees <i>Benjamin Aram Berendsohn, Ishay Golinsky, Haim Kaplan and Laszlo Kozma</i>	10:55	Faster Matroid Partition Algorithms <i>Tatsuya Terao</i>	11:20	Faster submodular maximization for several classes of matroids <i>Monika Henzinger, Paul Liu, Jan Vondrák and Da Wei Zheng</i>	11:45	On computing the vertex connectivity of 1-plane graphs <i>Karthik Murali and Therese Biedl</i>	12:10	An Efficient Algorithm for All-Pairs Bounded Edge Connectivity <i>Shyan Akmal and Ce Jin</i>	
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10:30 - 12:30	Track A-2: Online Algorithms	Seminar Room 4 (HNF)										
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12:30 - 14:00	Lunch	Lower Floor (HNF)										
14:00 - 15:30	Colloquium in honor of Friedhelm Meyer auf der Heide: Session 1	Auditorium (HNF)										
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15:30 - 16:00	Coffee break	Meeting Area (HNF)										
16:00 - 17:30	Colloquium in honor of Friedhelm Meyer auf der Heide: Session 2	Auditorium (HNF)										
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