## Tuesday July 5, morning

### Tuesday 8h30–9h35, Invited speaker 1

<table>
<thead>
<tr>
<th>Amphitheatre 1A</th>
<th>Chair David Woodruff</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Welcome words</td>
</tr>
<tr>
<td>Santosh Vempala</td>
<td>The Manifold Joys of Sampling in High Dimension</td>
</tr>
</tbody>
</table>

### Tuesday 10h00–12h05, Paper session 1

<table>
<thead>
<tr>
<th>Amphitheatre 1A</th>
<th>Graph algorithms</th>
<th>Chair Nikhil Bansal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amphitheatre 4C</td>
<td>Games and verification</td>
<td>Chair Sylvain Schmitz</td>
</tr>
<tr>
<td>Amphitheatre 9E</td>
<td>Sketching and streaming</td>
<td>Chair Frédéric Magniez</td>
</tr>
<tr>
<td>Amphitheatre 10E</td>
<td>Coding theory</td>
<td>Chair Fabrizio Grandoni</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>S. Forster and T. de Vos</th>
<th>Faster Cut Sparsification of Weighted Graphs</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Zhang</td>
<td>Faster Cut-Equivalent Trees in Simple Graphs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10h00</th>
<th>A. Rubinstein and J. Zhao</th>
<th>Maximizing Non-Monotone Submodular Functions over Small Subsets: Beyond 1/2-Approximation</th>
</tr>
</thead>
<tbody>
<tr>
<td>10h25</td>
<td>M. Feldman, P. Liu, A. Norouzi-Fard, O. Svensson, and R. Zenklusen</td>
<td>Streaming Submodular Maximization under Matroid Constraints</td>
</tr>
<tr>
<td>10h50</td>
<td>A. Czumaj, S. H.-C. Jiang, R. Krauthgamer, and P. Vesely</td>
<td>Streaming Algorithms for Geometric Steiner Forest</td>
</tr>
<tr>
<td>11h15</td>
<td>M. Charikar and E. Waingarten</td>
<td>Polylogarithmic Sketches for Clustering</td>
</tr>
<tr>
<td>11h40</td>
<td>A. Deshpande and R. Pratap</td>
<td>One-pass Additive-error Subset Selection for ℓ_p Subspace approximation</td>
</tr>
</tbody>
</table>

### Papers

- **Faster Cut Sparsification of Weighted Graphs**
- **Faster Cut-Equivalent Trees in Simple Graphs**
- **New Additive Approximations for Shortest Paths and Cycles**
- **Polynomial Delay Algorithm for Minimal Chordal Completions**
- **Max Weight Independent Set in Graphs with no Long Claws: An Analog of the Gyárfás’ Path Argument**
- **Universal Complexity Bounds Based on Value Iteration and Application to Entropy Games**
- **Parameterized Safety Verification of Round-based Shared-memory Systems**
- **Optimal Rate Codes for the Binary Deletion Channel and the Poisson Repeat Channel**
- **Optimal Coding Theorems in Time-Bounded Kolmogorov Complexity**
- **Non-Monotone Submodular Functions over Small Subsets: Beyond 1/2-Approximation**
- **Streaming Submodular Maximization under Matroid Constraints**
- **Streaming Algorithms for Geometric Steiner Forest**
- **Polylogarithmic Sketches for Clustering**
- **One-pass Additive-error Subset Selection for ℓ_p Subspace approximation**
### Tuesday July 5, afternoon

#### Tuesday 14h00–15h00, Invited speaker 2

<table>
<thead>
<tr>
<th>Amphitheatre 1A</th>
<th>Chair Virginia Vassilewska</th>
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</thead>
<tbody>
<tr>
<td>14h00</td>
<td>Leslie Ann Goldberg</td>
</tr>
<tr>
<td></td>
<td>Some new (and old) Results on Contention Resolution</td>
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</table>

#### Tuesday 15h30–17h10, Paper session 2

<table>
<thead>
<tr>
<th>Amphitheatre 1A Quantum chair Sevag Gharibian</th>
<th>Amphitheatre 4C Computability and dynamic systems chair Dmitry Chistikov</th>
<th>Amphitheatre 9E Reconstruction problems chair Aviad Rubinstein</th>
<th>Amphitheatre 10E Game theory, networks, and distributed chair Nikhil Bansal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Limitations of Local Quantum Algorithms on Random MAX-k-XOR and Beyond</td>
<td>Computability of Finite Simplicial Complexes</td>
<td>Optimal Time-Backlog Tradeoffs for the Variable-Processor Cup Game</td>
</tr>
<tr>
<td></td>
<td></td>
<td>J. Diaz, V. Dani, C. Moore, and T. Hayes</td>
<td>A. Berger, W. Kuszmaul, A. Polak, J. Tidor, and N. Wein</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Improved Reconstruction of Random Geometric Graphs</td>
<td>Memoryless Worker-Task Assignment with Polylogarithmic Switching Cost</td>
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<tr>
<td></td>
<td></td>
<td>A. McGregor and R. Sengupta</td>
<td>S. Ioannidis, B. de Keijzer, and C. Ventre</td>
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<tr>
<td></td>
<td></td>
<td>Graph Reconstruction from Random Subgraphs</td>
<td>Strong Approximations and Irrationality in Financial Networks with Derivatives</td>
</tr>
<tr>
<td>15h55</td>
<td>P. Yao, Y. Yin, and X. Zhang</td>
<td>D. Stull</td>
<td>T. Friedrich, H. Gawendowicz, P. Lenzner, and A. Melnichenko</td>
</tr>
<tr>
<td></td>
<td>Polynomial-Time Approximation of Zero-Free Partition Functions</td>
<td>The Dimension Spectrum Conjecture for Planar Lines</td>
<td>Social Distancing Network Creation</td>
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<tr>
<td>16h20</td>
<td>J. Radhakrishnan, S. Dhamapurkar, and S. Pawar</td>
<td>V. Salo and I. Törmä</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Set Membership with Two Classical and Quantum Bit Probes</td>
<td>What can Oracles Teach us about the Ultimate Fate of Life?</td>
<td></td>
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<tr>
<td>16h45</td>
<td>S. Chakraborty, C. Kayal, and M. Paraasah</td>
<td>J. Piribauer, O. Sankur, and C. Baier</td>
<td></td>
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<tr>
<td></td>
<td>Separations between Combinatorial Measures for Transitive Functions</td>
<td>The Variance-penalized Stochastic Shortest Path Problem</td>
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<td>The Variance-penalized Stochastic Shortest Path Problem</td>
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</tbody>
</table>

#### Tuesday 18h00–21h00, Cocktail and vernissage of the exhibition for the 50 years of EATCS / ICALP

University Paris Cité, 12 Rue de l’École de Médecine, 75006 Paris. Groups will gather and go by metro there lead by staff members.
### Wednesday July 6, morning

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Chair</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>8h30</td>
<td>Amphitheatre 1A</td>
<td>Paul Goldberg</td>
<td>Invited speaker 3: Equilibrium Computation, Deep Learning, and Multi-Agent (Reinforcement) Learning</td>
<td>C. Efthymiou, I. Bezakova, A. Galanis, L. Goldberg, and D. Stefankovic</td>
</tr>
<tr>
<td>10h00</td>
<td>Amphitheatre 1A</td>
<td>Sevag Gharibian</td>
<td>Paper session 3</td>
<td>C. Efthymiou, A. Coja-Oghlan, A. Galanis, G. Qiu, Y. Wang, and C. Zhang</td>
</tr>
<tr>
<td>10h25</td>
<td>Amphitheatre 1A</td>
<td></td>
<td>On Sampling Symmetric Gibbs Distributions on Sparse Random Graphs and Hypergraphs.</td>
<td>I. Bezakova, A. Galanis, L. Goldberg, and D. Stefankovic</td>
</tr>
<tr>
<td>10h50</td>
<td>Amphitheatre 4C</td>
<td>Anca Muscholl</td>
<td>Property testing</td>
<td>M. Göös, S. Kiefer, and W. Yuan, A. Casares, T. Colcombet, and K. Lehtinen</td>
</tr>
<tr>
<td>10h00</td>
<td>Amphitheatre 4C</td>
<td></td>
<td>Lower Bounds for Unambiguous Automata via Communication Complexity</td>
<td>L. Esperet and S. Norin</td>
</tr>
<tr>
<td>10h25</td>
<td>Amphitheatre 4C</td>
<td></td>
<td>On the Size of Good-for-games Rabin Automata and its Link with the Memory in Muller Games</td>
<td>O. Ben-Eliezer, S. Letzter, and E. Waingarten</td>
</tr>
<tr>
<td>10h50</td>
<td>Amphitheatre 4C</td>
<td></td>
<td>A Generic Solution to Register-bounded Synthesis With an Application to Discrete Orders</td>
<td>L. Exibard, E. Filiot, and A. Khalimov</td>
</tr>
<tr>
<td>11h15</td>
<td>Amphitheatre 4C</td>
<td></td>
<td>Passive Learning of Deterministic Büchi Automata by Combinations of DFAs</td>
<td>T. Eden, D. Ron, and W. Rosenbaum</td>
</tr>
<tr>
<td>11h40</td>
<td>Amphitheatre 4C</td>
<td></td>
<td>Improved Sublinear-Time Edit Distance for Preprocessed Strings</td>
<td>K. Bringmann, A. Cassis, N. Fischer, and V. Nakos</td>
</tr>
<tr>
<td>10h00</td>
<td>Amphitheatre 9E</td>
<td>Ilan Newman</td>
<td>Dynamic algorithms and sensitivity oracles</td>
<td>J. Alman and D. Hirsch</td>
</tr>
<tr>
<td>10h25</td>
<td>Amphitheatre 9E</td>
<td></td>
<td>Parameterized Sensitivity Oracles and Dynamic Algorithms using Exterior Algebras</td>
<td>S. Baswana, K. Bhanja, and A. Pandey</td>
</tr>
<tr>
<td>10h50</td>
<td>Amphitheatre 9E</td>
<td></td>
<td>Minimum+1 (s,t)-cuts and Dual Edge Sensitivity Oracle</td>
<td>D. Bilò, K. Choudhary, S. Cohen, T. Friedrich, and M. Schirmeck</td>
</tr>
<tr>
<td>11h40</td>
<td>Amphitheatre 9E</td>
<td></td>
<td>Fully-Dynamic Graph Sparsifiers Against an Adaptive Adversary</td>
<td>A. B. G. Christiansen and E. Rotenberg</td>
</tr>
<tr>
<td>11h40</td>
<td>Amphitheatre 10E</td>
<td></td>
<td>Transducers and automata</td>
<td>M. Schirneck, D. B. Christiansen, A. Casares, L. Goldberg, and D. Stefankovic</td>
</tr>
<tr>
<td>11h15</td>
<td>Amphitheatre 10E</td>
<td></td>
<td>Fast sampling via Spectral Independence beyond Bounded-degree Graphs</td>
<td>A. Coja-Oghlan, A. Galanis, L. Goldberg, and D. Stefankovic</td>
</tr>
<tr>
<td>11h40</td>
<td>Amphitheatre 10E</td>
<td></td>
<td>Testability and Local Certification of Monotone Properties in Minor_closed Classes</td>
<td>L. Exibard, E. Filiot, and A. Khalimov</td>
</tr>
<tr>
<td>11h15</td>
<td>Amphitheatre 10E</td>
<td></td>
<td>Finding Monotone Patterns in Sublinear Time, Adaptively</td>
<td>O. Ben-Eliezer, S. Letzter, and E. Waingarten</td>
</tr>
<tr>
<td>11h40</td>
<td>Amphitheatre 10E</td>
<td></td>
<td>Almost Optimal Bounds for Sublinear-Time Sampling of i-Cliques in Bounded Arboricity Graphs</td>
<td>T. Eden, D. Ron, and W. Rosenbaum</td>
</tr>
<tr>
<td>11h15</td>
<td>Amphitheatre 10E</td>
<td></td>
<td>Deterministic Sensitivity Oracles for Diameter, Eccentricities and All Pairs Distances</td>
<td>D. Bilò, K. Choudhary, S. Cohen, T. Friedrich, and M. Schirmeck</td>
</tr>
<tr>
<td>11h40</td>
<td>Amphitheatre 10E</td>
<td></td>
<td>Fully-Dynamic Graph Sparsifiers Against an Adaptive Adversary</td>
<td>A. Bernstein, J. v. d. Brand, M. Probst, D. Nanongkai, T. Saranurak, A. Sidford, and He Sun</td>
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</tbody>
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**ICALP 2022, programme**
## Wednesday July 6, afternoon

### Wednesday 14h00–16h05, Best papers session

**Amphitheatre 1A**

*chair Mikołaj Bojańczyk and David Woodruff*

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<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>14h00</td>
<td><strong>J. Blikstad</strong></td>
<td>Sublinear-round Parallel Matroid Intersection</td>
</tr>
<tr>
<td>14h25</td>
<td><strong>J. Tětek</strong></td>
<td>Approximate Triangle Counting via Sampling and Fast Matrix Multiplication</td>
</tr>
<tr>
<td>14h50</td>
<td><strong>G. Douéneau-Tabot</strong></td>
<td>Hiding Pebbles when the Output Alphabet is Unary</td>
</tr>
<tr>
<td>15h15</td>
<td><strong>I. Newman and N. Varma</strong></td>
<td>Strongly Sublinear Algorithms for Testing Pattern Freeness</td>
</tr>
<tr>
<td>15h40</td>
<td><strong>J. Gajarský, M. Pilipczuk, W. Przybyszewski, and S. Toruńczyk</strong></td>
<td>Twin-width and Types</td>
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</table>

### Wednesday 16h45–17h30, EATCS Award 2022

**Amphitheatre 1A**

*chair Jean-François Raskin*

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>16h45</td>
<td><strong>Patrick Cousot</strong></td>
<td>Abstraction of Hybrid Semantics</td>
</tr>
</tbody>
</table>

### Wednesday 17h30–19h30, EATCS general assembly

**Amphitheatre 1A**

**EATCS general assembly:**

EATCS fellows, EATCS distinguished dissertation Award, Best ICALP papers, Best ICALP Student Papers, news about next ICALP, ICALP business meeting
### Thursday July 7, morning

#### Thursday 8h30–9h30, Invited speaker 4

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Topic</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8h30</td>
<td>Amphitheatre 1A</td>
<td>chair Mikolaj Bojanczyk</td>
<td>Towards a Theory of Algorithmic Proof Complexity: Motivation and Directions</td>
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#### Thursday 10h00–12h05, Paper session 4

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Topic</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10h00</td>
<td>Amphitheatre 1A</td>
<td>chair Claire Mathieu Computational Geometry</td>
<td>A. Khan, A. Lonkar, A. Maiti, A. Sharma, and A. Wiese&lt;br&gt;Tight Approximation Algorithms for Two-dimensional Guillotine Strip Packing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>chair Yixin Cao Parameterized complexity</td>
<td>R. M. Sritharahan, D. Lokshitanov, and F. Panolan&lt;br&gt;Backdoor Sets on Nowhere Dense SAT</td>
</tr>
<tr>
<td>10h25</td>
<td>Amphitheatre 4C</td>
<td>Approximation algorithms</td>
<td>L. Chen, X. Wu, and G. Zhang&lt;br&gt;Approximation Algorithms for Interdiction Problem with Packing Constraints</td>
</tr>
<tr>
<td>10h50</td>
<td>Amphitheatre 9E</td>
<td>chair Robert Krauthgamer Optimization</td>
<td>K. Bringmann and A. Cassis&lt;br&gt;Faster Knapsack Algorithms via Bounded Monotone Min-Plus-Convolution</td>
</tr>
<tr>
<td></td>
<td></td>
<td>chair Adrian Vladu</td>
<td>M. Ding, R. Kyng, and P. Zhang&lt;br&gt;Two-Commodity Flow is Equivalent to Linear Programming under Nearly-Linear Time Reductions</td>
</tr>
<tr>
<td>11h15</td>
<td>Amphitheatre 10E</td>
<td>chair Yixin Cao Parameterized complexity</td>
<td>M. Ding, R. Kyng, and P. Zhang&lt;br&gt;Two-Commodity Flow is Equivalent to Linear Programming under Nearly-Linear Time Reductions</td>
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<tr>
<td></td>
<td></td>
<td>Approximation algorithms</td>
<td>K. Bringmann and A. Cassis&lt;br&gt;Faster Knapsack Algorithms via Bounded Monotone Min-Plus-Convolution</td>
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<tr>
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<td></td>
<td>chair Robert Krauthgamer Optimization</td>
<td>M. Ding, R. Kyng, and P. Zhang&lt;br&gt;Two-Commodity Flow is Equivalent to Linear Programming under Nearly-Linear Time Reductions</td>
</tr>
<tr>
<td>11h40</td>
<td>Amphitheatre 1A</td>
<td>chair Claire Mathieu Computational Geometry</td>
<td>M. Briański, M. Koutecký, D. Kráľ, K. Pekárková, and F. Schröder&lt;br&gt;Characterization of Matrices with Bounded Graver Bases and Depth Parameters and Applications to Anteger Programming</td>
</tr>
<tr>
<td></td>
<td></td>
<td>chair Adrian Vladu</td>
<td>M. Ding, R. Kyng, and P. Zhang&lt;br&gt;Two-Commodity Flow is Equivalent to Linear Programming under Nearly-Linear Time Reductions</td>
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<tr>
<td></td>
<td></td>
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<td>K. Bringmann and A. Cassis&lt;br&gt;Faster Knapsack Algorithms via Bounded Monotone Min-Plus-Convolution</td>
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<td>chair Robert Krauthgamer Optimization</td>
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<td>chair Adrian Vladu</td>
<td>M. Ding, R. Kyng, and P. Zhang&lt;br&gt;Two-Commodity Flow is Equivalent to Linear Programming under Nearly-Linear Time Reductions</td>
</tr>
</tbody>
</table>

#### Session 4: Tight Approximation

- **Knapsack**
  - A. Khan, Z. Huang, A. Khan, and K. V. N. Sreenivas
  - A PTAS for Packing Hypercubes into a Knapsack

- **Hypercubes into a Knapsack**
  - P. Manurangsi, X. Wang, J. Conradi, and A. Driemel
  - Approximating with Few Small Items via Fast Exact Matching in Multigraphs

- **A PTAS for Packing Hypercubes into a Knapsack**
  - P. Manurangsi, X. Wang, J. Conradi, and A. Driemel
  - Approximating with Few Small Items via Fast Exact Matching in Multigraphs

- **Towards a Theory of Algorithmic Proof Complexity: Motivation and Directions**
  - P. Manurangsi, X. Wang, J. Conradi, and A. Driemel
  - Approximating with Few Small Items via Fast Exact Matching in Multigraphs

- **On Computing the k-Shortcut Fréchet Distance**
  - J. Conradi and A. Driemel
  - A Fixed-Parameter Algorithm for the Kneser Problem

- **Approximating Multiprocessor Scheduling**
  - P. Manurangsi, X. Wang, J. Conradi, and A. Driemel
  - Approximating with Few Small Items via Fast Exact Matching in Multigraphs

- **Two-dimensional Guillotine Strip Packing**
  - P. Manurangsi, X. Wang, J. Conradi, and A. Driemel
  - Approximating with Few Small Items via Fast Exact Matching in Multigraphs

- **A PTAS for Capacitated Vehicle Routing on Trees**
  - P. Manurangsi, X. Wang, J. Conradi, and A. Driemel
  - Approximating with Few Small Items via Fast Exact Matching in Multigraphs
**Thursday July 7, afternoon**

**Thursday 14h30–15h50, Presburger Award and Gödel Prize 2022**

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Speaker(s)</th>
<th>Chair(s)</th>
</tr>
</thead>
</table>
| 14h30  | Amphitheatre 1A | Dor Minzer, *chaired by Mikolaj Bojańczyk*  
*On Monotonicity Testing and the 2-to-2-Games Conjecture* |                                  |
| 14h55  | Amphitheatre 1A | Zvika Brakerski, Craig Gentry, and Vinod Vaikuntanathan, *chaired by Anca Muscholl*  
TBA |                                  |

**Thursday 16h00–17h40, Paper session 5**

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Topic</th>
<th>Chair(s)</th>
</tr>
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</table>
| 16h00  | Amphitheatre 1A | Homomorphisms  
*chaired by Leslie Ann Goldberg* |                                  |
| 16h25  | Amphitheatre 4C | Homomorphism Tensors and Linear Equations  
*chaired by Paul-André Melliès* |                                  |
| 16h50  | Amphitheatre 9E | Recursion Schemes: A Simpler Type System  
*chaired by David Woodruff* |                                  |
| 17h15  | Amphitheatre 10E | Unboundedness for Recursion Schemes: A Simpler Type System  
*chaired by Frédéric Magniez* |                                  |

**Thursday 19h30–22h30, Conference dinner**

Le Train Bleu, first Floor of “Gare de Lyon” train station, Place Louis Armand, 75012 Paris. Groups will gather and walk there lead by staff members
**Friday July 8, morning**

### Friday 8h30–9h30, Invited speaker 5

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Speaker(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>8h30</td>
<td>Amphitheatre 1A</td>
<td>Madhu Sudan</td>
<td>Streaming and Sketching Complexity of CSPs: A survey</td>
</tr>
</tbody>
</table>

### Friday 10h00–12h05, Paper Session 6

<table>
<thead>
<tr>
<th>Time</th>
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<td>10h00</td>
<td>Amphitheatre 1A</td>
<td>Data structures, sorting, and string processing</td>
<td>E. Ghasemi, V. Jugé, and G. Khalighinejad</td>
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<td>Galloping in Fast-growth Natural Merge Sorts</td>
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<td>10h25</td>
<td>Amphitheatre 4C</td>
<td>Graphs and complexity</td>
<td>S. Datta, C. Gupta, R. Jain, A. Mukherjee, V. R. Sharma, and R. Tewari</td>
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<td></td>
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<td>Dynamic Meta-theorems for Distance and Matching</td>
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<td>10h50</td>
<td>Amphitheatre 9E</td>
<td>Graph distances and fault tolerance</td>
<td>M. Pilipczuk, N. Schirrmacher, S. Siebertz, S. Toruńczyk, and A. Vigny</td>
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<td>Oracles and Preservers for Distance and Matching</td>
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<td>11h15</td>
<td>Amphitheatre 10E</td>
<td>Complexity</td>
<td>K. Bringmann, A. Cassis, N. Fischer, and M. Künnemann</td>
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<td>A Structural Investigation of the Approximability of Polynomial-Time Problems</td>
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<tr>
<td>11h40</td>
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<td>One or multiple machines</td>
<td>P. Gawrychowski and K. Pokorski</td>
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<td>Sublinear Dynamic Interval Scheduling</td>
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**ICALP 2022, programme**
## Friday July 8, afternoon

### Friday 14h00–15h00, Invited speaker 6

**Amphitheatre 1A**  
*chair Anca Muscholl*

14h00  
**Stéphan Thomassé**  
*A brief tour in twin-width*

### Friday 15h30–16h45, Paper session 7

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| **Online algorithms**  
*chair Adrian Vladu* | **Decremental algorithms**  
*chair Yixin Cao* | **Cryptography**  
*chair Geoffroy Couteau* | **Counting and complexity**  
*chair Sylvain Perifel* |

| 15h30 | Y. Azar, C. Machluf, B. Patt-Shamir, and N. Touitou  
*Competitive Vertex Recoloring* | J. Łącki and Y. Nazari  
*Near-Optimal Decremental Hopsets with Applications* | Z. Brakerski, N. Döttling, S. Garg, and G. Malavolta  
*Factoring and Pairings are not Necessary for iO: Circular-Secure LWE Suffices* |

| 15h55 | R. Chen, J. Khatkar, and S. W. Umboh  
*Online Weighted Cardinality Joint Replenishment Problem with Delay* | A. Jambulapati, Y. Jin, A. Sidford, and K. Tian  
*Regularized Box-Simplex Games and Dynamic Decremental Bipartite Matching* | S. Agrawal, D. Stehle, and A. Yadav  
*Round-Optimal Lattice-Based Threshold Signatures, Revisited* |

| 16h20 | S. Assadi, A. Bernstein, and A. Dudeja  
*Decremental Matching in General Graphs* | J. Holmgren, A. Lincoln, and R. Rothblum  
*Delegation for Search Problems* | C. Beideman, K. Chandrasekaran, and W. Wang  
*Counting and Enumerating Optimum Cut Sets for Hypergraph $k$-partitioning problems for fixed $k$* |

| 16h20 | S. Mathialagan, V. V. Williams, and Y. Xu  
*Deciding Twin-width at most 4 is NP-complete* | |