Optimality and Tight Results in Parameterized Complexity

Monday, November 3rd

9:00– 9:10 Opening
9:10–10:00 Marek Cygan: Exponential Time Hypothesis, Part 1
10:00–10:30 Coffee break
10:30–11:30 Michal Pilipczuk: Exponential Time Hypothesis, Part 2
11:30–12:00 Markus Dregi: Parameterized Complexity of Bandwidth on Trees
   12:15 Lunch
3:30– 4:00 Coffee break
4:00– 4:30 Thore Husfeldt: Shortest Two Disjoint Paths in Polynomial Time
4:30– 5:00 MohammadTaghi Hajiaghayi: Parameterized Streaming: Maximal Matching and Vertex Cover
5:00– 6:00 Open problem session
   6:00 Dinner
Optimality and Tight Results in Parameterized Complexity

Tuesday, November 4th

9:00–10:00  Daniel Lokshtanov: The Strong Exponential Hypothesis

10:00–10:30  Coffee break

10:30–11:30  Virginia Vassilevska Williams: Implications of SETH for polynomial time problems

11:30–12:00  Gregory Z. Gutin: FPT algorithms for the Workflow Satisfiability Problem with User-Independent Constraints: Optimality and Experimental Evaluation

12:15  Lunch

3:30– 4:00  Coffee break

4:00– 5:00  Stefan Szeider: Backdoors, Satisfiability, and Problems Beyond NP

5:00– 6:00

6:00  Dinner
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**Wednesday, November 5th**

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<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<td>9:00–9:30</td>
<td>Bart Jansen</td>
<td>Uniform Kernelization Complexity of Hitting Forbidden Minors</td>
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<td>9:30–10:00</td>
<td>Ondřej Suchý</td>
<td>Tree Deletion Set Has a Polynomial Kernel (but no OPT O(1) Approximation)</td>
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<td>10:00–10:30</td>
<td>Coffee break</td>
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<td>10:30–11:00</td>
<td>Geevarghese Philip</td>
<td>Point Line Cover: The easy kernel is essentially the best</td>
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<td>11:00–11:30</td>
<td>Christian Knauer</td>
<td>The parameterized complexity of (some) geometric problems</td>
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<td>11:30–12:00</td>
<td>Iyad A. Kanj</td>
<td>Flip Distance is in FPT time $O(n + kc^k)$</td>
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<td>12:15</td>
<td>Lunch</td>
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<td>3</td>
<td>Afternoon: Hike</td>
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<td>6:00</td>
<td>Dinner</td>
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Thursday, November 6th

9:00–10:00 Saket Saurabh: Fixed-parameter tractable canonization and isomorphism test for graphs of bounded treewidth

10:00–10:30 Coffee break

10:30–11:00 Hans L. Bodlaender: On Courcelle’s conjecture
11:00–11:30 Marcin Pilipczuk: Hitting forbidden subgraphs in graphs of bounded treewidth
11:30–12:00 Mark Jones: The Mixed Chinese Postman Problem

12:15 Lunch

3:30– 4:00 Coffee break

4:00– 4:30 Radu Curticapean: The complexity of counting $k$-matchings revisited
4:30– 5:00 Andreas Björklund: Fast modular permanents
5:00– 5:30 Łukasz Kowalik: Fast Witness Extraction Using a Decision Oracle
5:30– 6:00 Andrew Drucker: Kernelization lower bounds from weaker hardness assumptions

6:00 Dinner
Optimality and Tight Results in Parameterized Complexity

Friday, November 7th

9:00–10:00  Dániel Marx: Every graph is easy or hard: dichotomy theorems for graph problems

10:00–10:30  Coffee break

10:30–11:00  Christian Komusiewicz: On Graph Motif problems parameterized by dual

11:00–11:30  Anders Yeo: Parameterized Complexity of the $k$-Chinese postmen problem

12:15  Lunch