

# - Program IWOCA 2022 -

Day 0	Monday, 06.06.2022	
6.30 pm	Get together!	Restaurant Kartoffelkiste - Fahrstraße 13 - 54290 Trier

Day 1	Tuesday, 07.06.2022	
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08.20 am	Registration	
09.00 am	Welcome / Opening	
09.20 am	Session 1	<ol style="list-style-type: none"> <li><u>1</u> <a href="#"><i>Frank Sommer, Jaroslav Garvardt, Christian Komusiewicz</i></a>: The Parameterized Complexity of s-Club with Triangle and Seed Constraints</li> <li><u>2</u> <a href="#"><i>Niels Grüttemeier, Jannik Schestag, Christian Komusiewicz, Frank Sommer</i></a>: On Critical Node Problems with Vulnerable Vertices</li> <li><u>3</u> <a href="#"><i>Stepan Artamonov, Maxim Babenko</i></a>: Faster Algorithm for Finding Maximum 1-Restricted Simple 2-Matchings</li> <li><u>4</u> <a href="#"><i>Martin Gronemann, Michael A. Bekos, Fabrizio Montecchiani, Antonios Symvonis</i></a>: Convex Grid Drawings of Planar Graphs with Constant Edge-Vertex Resolution</li> </ol>
10.40 am	Coffee Break	
11.10 am	Session 2	<ol style="list-style-type: none"> <li><u>5</u> <a href="#"><i>Takuya Mieno, Mitsuru Funakoshi</i></a>: Shortest Unique Palindromic Substring Queries in Semi-dynamic Settings</li> <li><u>6</u> <a href="#"><i>Petra Wolf, Jonas Lingg, Mateus de Oliveira Oliveira</i></a>: Learning from Positive and Negative Examples: Dichotomies and Parameterized Algorithms</li> <li><u>7</u> <a href="#"><i>Rosna Paul, Oswin Aichholzer, Ruy Fabila-Monroy, Philipp Kindermann, Irene Parada, Daniel Perz, Patrick Schnider, Birgit Vogtenhuber</i></a>: Perfect Matchings with Crossings</li> <li><u>8</u> <a href="#"><i>Sai Sridhar</i></a>: On Relative Clique Number of Triangle-Free Planar Colored Mixed Graphs.</li> <li><u>9</u> <a href="#"><i>Thaís Bardini Idalino, Lucia Moura</i></a>: Structure Aware Combinatorial Group Testing: A New Method for Pandemic Screening</li> </ol>
12.50 am	Lunch	
02.00 pm	Invited Talk	<a href="#"><i>Erik Demaine</i></a> - Characterizing Motion-Planning Gadgets Through Simulation and Complexity
03.30 pm	Coffee Break	
04.00 pm	Session 3	<ol style="list-style-type: none"> <li><u>10</u> <a href="#"><i>Uéverton S. Souza, Diane Castonguay, Erika M. M. Coelho, Hebert Coelho, Julliano R. Nascimento</i></a>: Perfect Matching Cuts Partitioning a Graph into Complementary Subgraphs</li> <li><u>11</u> <a href="#"><i>Avah Banerjee</i></a>: An Adjacency Labeling Scheme Based on a Decomposition of Trees into Caterpillars</li> <li><u>12</u> <a href="#"><i>Vadim Lozin, Bogdan Alecu, Vladimir E. Alekseev, Aistis Atminas, Viktor Zamaraev</i></a>: Graph Parameters, Implicit Representations and Factorial Properties</li> <li><u>13</u> <a href="#"><i>Jan Kratochvíl, Jan Bok, Jiří Fiala, Nikola Jedličková, Paweł Rzążewski</i></a>: List Covering of Regular Multigraphs</li> <li><u>14</u> <a href="#"><i>Paul W. Lapey, Aaron Williams</i></a>: A Shift Gray Code for Fixed-Content Łukasiewicz Words</li> </ol>

Day 2	Wednesday, 08.06.2022	
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08.20 am	Session 1	<ol style="list-style-type: none"> <li><u>1</u> <a href="#"><i>Klaus Jansen, Thi Huyen Chau Nguyen, Werner Grass</i></a>: Exact Polynomial Time Algorithm for the Response Time Analysis of Harmonic Tasks</li> <li><u>2</u> <a href="#"><i>Sung-Hwan Kim, Hwan - Gue Cho</i></a>: Practical Space-Efficient Index for Structural Pattern Matching</li> <li><u>3</u> <a href="#"><i>Daniel Bertschinger, Patrick Schnider, Jonas Passweg</i></a>: Tukey Depth Histograms</li> <li><u>4</u> <a href="#"><i>Irene Muzi, Pål Grønås Drange, Felix Reidl</i></a>: Harmless Sets in Sparse Classes</li> <li><u>5</u> <a href="#"><i>Amirhossein Mozafari, Binay Bhattacharya, Thomas C. Shermer</i></a>: An Efficient Algorithm for the Proximity Connected Two Center Problem</li> </ol>
10.00 am	Coffee Break	

10.30 am	Invited Talk	<i>Akanksha Agrawal, M. S. Ramanujan</i> - Distance from Triviality 2.0: Hybrid Parameterizations
12.00 am	Presentation of Best Paper and Best Student Paper	<ol style="list-style-type: none"> <li><b>Best Paper Award:</b> <i>Hideo Bannai, Tomohiro I, Tomasz Kociumaka, Dominik Köppl, Simon Puglisi</i>: Computing Longest (Common) Lyndon Subsequence.</li> <li><b>Best Student Paper Award:</b> <i>Kanae Yoshiwatari, Hironori Kiya, Tesshu Hanaka, Hirotaka Ono</i>: Winner Determination Algorithms for Graph Games with Matching Structures.</li> </ol>
02.00 pm	Excursion, including a boat trip	
07.00 pm	Conference Dinner	Altes Brauhaus Trier - Bernhardstraße 60 - 54295 Trier

<b>Day 3</b>	<b>Thursday, 09.06.2022</b>	
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08.20 am	Session 1	<ol style="list-style-type: none"> <li><u>1</u> <i>Yusuke Kobayashi, Asei Inoue</i>: An Additive Approximation Scheme for the Nash Social Welfare Maximization with Identical Additive Valuations</li> <li><u>2</u> <i>Joanna Kaczmarek, Jörg Rothe</i>: Controlling Weighted Voting Games by Deleting or Adding Players with or Without Changing the Quota</li> <li><u>3</u> <i>Łukasz Jeż, János Balogh, György Dósa, Leah Epstein</i>: Lower Bounds on the Performance of Online Algorithms for Relaxed Packing Problems</li> <li><u>4</u> <i>Sanjana Dey, Florent Foucaud, Subhadeep Ranjan Dev, Ralf Klasing, Tuomo Lehtilä</i>: The Red-Blue Separation Problem on Graphs</li> <li><u>5</u> <i>Dominik Köppl, Tomohiro I</i>: Space-Efficient B Trees via Load-Balancing</li> </ol>
10.00 am	Coffee Break	
10.30 am	Session 2	<ol style="list-style-type: none"> <li><u>6</u> <i>Janosch Fuchs, Elisabet Burjons, Henri Lotze</i>: The Slotted Online One-Sided Crossing Minimization Problem on 2-Regular Graphs</li> <li><u>7</u> <i>Felix Mann, Felicia Lucke</i>: Using Edge Contractions and Vertex Deletions to Reduce the Independence Number and the Clique Number</li> <li><u>8</u> <i>Rémi Watrigant, Pierre Bergé, Anthony Busson, Carl Feghali</i>: 1-Extendability of Independent Sets</li> <li><u>9</u> <i>Nicola Rizzo, Veli Mäkinen</i>: Linear Time Construction of Indexable Elastic Founder Graphs</li> <li><u>10</u> <i>Manolis Vasilakis, Giannis Alonistiotis, Antonis Antonopoulos, Nikolaos Melissinos, Aris Pagourtzis, Stavros Petakalis</i>: Approximating Subset Sum Ratio via Subset Sum Computations</li> </ol>
12.10 am	Lunch	
01.20 pm	Session 3	<ol style="list-style-type: none"> <li><u>11</u> <i>Spyridon Tzimas, Charis Papadopoulos</i>: Computing a Minimum Subset Feedback Vertex Set on Chordal Graphs Parameterized by Leafage</li> <li><u>12</u> <i>Chiara Capresi, Cristiano Bocci, Kitty Meeks, John Sylvester</i>: A New Temporal Interpretation of Cluster Editing</li> <li><u>13</u> <i>Andrea Caucchiolo, Ferdinando Cicalese</i>: On the Intractability Landscape of Digraph Intersection Representations</li> <li><u>14</u> <i>Divyam Singal, Sreshth Aggarwal, Deepanjan Kesh</i>: Lower Bounds for Restricted Schemes in the Two-Adaptive Bitprobe Model</li> </ol>
03.00 pm	Coffee Break	
03.30 pm	Invited Talk	<i>Bhaskar Ray Chaudhury</i> – On the Existence of EFX Allocations
05.00 pm	Coffee Break	
05.15 pm	Business Meeting	

<b>Day 4</b>	<b>Friday, 10.06.2022</b>	
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08.20 am	Presentation of Open Problems and Group Formation	
10.00 am	Coffee Break	
10.30 am	First Working Session	
12.00 am	Lunch	
01.00 pm	Short Recap and Second Working Session	
02.45 pm	Coffee Break	
03.00 pm	Third Working Session	
04.30 pm	Coffee Break	
04.45 pm	Short Get-Together / Result Announcements	