

MAPSP 2026

17th Workshop on Models and Algorithms for Planning and Scheduling Problems

Monday, 22 June

	Session 1 (Prince Bishop Suite) Chair: Lars Rohwedder	
9:00–10:00	Keynote Talk: <i>Franziska Eberle</i> : Stochastic load balancing and related problems	
10:00–10:40	Coffee Break¹	
	Session 2A (Prince Bishop Suite) Chair: Rob van Stee	Session 2B (Great Hall) Chair: Kevin Schewior
10:40–11:05	<i>Ya-Chun Liang, Jian-Xi Shao and Chung-Shou Liao*</i> Revisit the Online TSP on the Line	<i>Sanjoy Baruah* and Pontus Ekberg</i> Rethinking efficiency in real-time schedulability analysis
11:05–11:30	<i>Anna Hu and Hsiang-Hsuan Liu*</i> Power of knowing the full neighborhood of online vertex cover	<i>Sanjoy Baruah and Pontus Ekberg*</i> Efficient explainability of schedulability analysis
11:30–11:55	<i>David Shmoys*, Varun Suriyanarayana and Seun William Umboh</i> Improved On-line Algorithms for the JRP with Holding & Delay Costs	<i>Mario Günzel, Marion Sudvarg, Max Deppert, Ao Li, Ning Zhang and Jian-Jia Chen*</i> Optimal Priority Assignment for Synchronous Harmonic Tasks With Dynamic Self-Suspension
12:00–13:00	Lunch	
13:00–15:00	Collaboration	
	Session 3A (Prince Bishop Suite) Chair: Marc Uetz	Session 3B (Great Hall) Chair: Samir Khuller
15:00–15:25	<i>Maximilian von Aspern*, Felix Buld and Michael Pinedo</i> Flow Shop Scheduling with Stochastic Reentry	<i>Martijn van Ee* and Rene Sitters</i> Approximation algorithms for graph search problems with imperfect detection
15:25–15:50	<i>Sven Jäger and Daniel Schmidt Genannt Waldschmidt*</i> A Novel IP Formulation for Stochastic Non-Preemptive Scheduling	<i>Sunny Atalig, Marek Chrobak, Christoph Dürr, Petr Kolman, Huong Luu, Jiří Sgall* and Gregory Zhu</i> Two Complexity Results on Spanning-Tree Congestion Problems
15:50–16:30	Coffee Break	
	Session 4A (Prince Bishop Suite) Chair: Malin Rau	Session 4B (Great Hall) Chair: Martijn van Ee
16:30–16:55	<i>Mong-Jen Kao*</i> On the Integrality Gap of MFN Relaxation for the Capacitated Facility Location Problem	<i>Moritz Buchem*, Nicole Megow, Marc Uetz and Leoni Wünschermann</i> Approximating Fair Repetitive Scheduling
16:55–17:20	<i>Sander Borst, Golnoosh Shahkarami* and Rohit Vaish</i> Interval Scheduling under Approximate Envy-Freeness	<i>Mirabel Mendoza-Cadena, Arturo Merino, Mads Anker Nielsen* and Kevin Schewior</i> Combinatorial Perpetual Scheduling
17:20–17:45	<i>Sami Davies*, Venkatesan Guruswami and Xuandi Ren</i> Scheduling Problems with Constrained Rejections	<i>Kalina Jasińska, John Kuzsmaul* and Gyudong Lee</i> Strengths and Limitations of Greedy in Cup games
17:45–19:00	Collaboration	
19:00–21:00	Dinner	

Tuesday, 23 June

	Session 5 (Prince Bishop Suite) Chair: Prudence Wong	
9:00–10:00	Keynote Talk: <i>Jannik Matuschke</i> : When Nicolas and Vilfredo Join Hands: Condorcet Dimension and Pareto Optimality for Matchings and Beyond	
10:00–10:40	Coffee Break	
	Session 6A (Prince Bishop Suite) Chair: Samir Khuller	Session 6B (Great Hall) Chair: Kevin Schewior
10:40–11:05	<i>Antonios Antoniadis, Denise Graafsma*, Ruben Hoeksma and Maria Vlasiou</i> Refining the Complexity Landscape of Speed Scaling	<i>Benjamin Moseley, Heather Newman*, Kirk Pruhs and Rudy Zhou</i> Robust Gittins for Stochastic Scheduling

¹Coffee breaks are in front of the Prince Bishop Suite, lunches in Restaurant 1744, and dinners in the Great Hall.

11:05–11:30	<i>Peter Gyorgyi and Tamas Kis*</i> Resource leveling problems with precedence constraints and convex cost functions	<i>Benjamin Moseley, Kirk Pruhs, Marc Uetz* and Rudy Zhou</i> Minimizing Completion Times of Stochastic Jobs on Parallel Machines is Hard
11:30–11:55	<i>Klaus Jansen and Felix Ohnesorge*</i> A Practical 73/50 Approximation for Contiguous Monotone Moldable Job Scheduling	<i>P.J. van Mill*, André Berger and Tjark Vredeveld</i> A further investigation of Learning-SEPT
12:00–13:00	Lunch	
13:00–15:00	Collaboration	
	Session 7A (Prince Bishop Suite) Chair: Marc Uetz	Session 7B (Great Hall) Chair: Martijn van Ee
15:00–15:25	<i>Eyüp Ensar Işık*, Z. Caner Taşkın and Semra Ağralı</i> A Decomposition-Based Exact Solution Approach for Lot-sizing and Scheduling Problem in Co-production Systems	<i>Steven Miltenburg*</i> On the Complexity of the Euclidean Capacitated Vehicle Routing Problem
15:25–15:50	<i>Tanvi Hisaria, Neel Karia, Clifford Stein*, Asser Tantawi, Olivier Tardieu and Wenqing Yu</i> SMART-MIG	<i>Steven Miltenburg, Tim Oosterwijk* and René Sitters</i> Capacitated Vehicle Routing with Order Restrictions
15:50–16:30	Coffee Break	
	Session 8A (Prince Bishop Suite) Chair: Antonios Antoniadis	Session 8B (Great Hall) Chair: Eric Balkanski
16:30–16:55	<i>Mateusz Basiak, Marcin Bienkowski, Martin Böhm*, Marek Chrobak, Łukasz Jeż, Jiří Sgall and Agnieszka Tatarczuk</i> A 3.3904-Competitive Online Algorithm for List Update with Uniform Costs	<i>Stephen Arndt, Benjamin Moseley, Kirk Pruhs and Michael Zlatin*</i> Edmonds++
16:55–17:20	<i>Michael A. Bender, Alex Conway, Daniel DeLayo*, Martin Farach-Colton, Jaehyun Han, Linfeng He, Rob Johnson, Sudarsun Kannan, William Kuszmaul, Donald Porter and Evan West</i> Don't Melt Your Cache	<i>Stephen Arndt*, Benjamin Moseley, Kirk Pruhs, Chaitanya Swamy and Michael Zlatin</i> Efficiently Coloring the Intersection of General Matroids
17:20–17:45	<i>Enoch Peserico and Michele Scquizzato*</i> Is competitive paging an artifact?	<i>Lisa Hellerstein, Benedikt M. Plank and Kevin Schewior*</i> Approximating Matroid Basis Testing for Partition Matroids using Budget-In-Expectation
17:45–19:00	Collaboration	
19:00–21:00	Dinner	

Wednesday, 24 June

	Session 9A (Prince Bishop Suite) Chair: Alexander Lindermayr	Session 9B (Great Hall) Chair: Malin Rau
9:00–9:25	<i>Spyros Angelopoulos, Mathis Degryse*, Christoph Dürr and Imrane Sakkour</i> Randomized online bidding with prediction	<i>Jesper Nederlof, Céline Swennenhuis and Karol Węgrzycki*</i> A Subexponential Time Algorithm for Makespan Scheduling of Unit Jobs with Precedence Constraints
9:25–9:50	<i>Samuel McCauley, Benjamin Moseley*, Helia Niaparast and Shikha Singh</i> Stable Matching with Predictions	<i>Klaus Jansen*, Felix Ohnesorge and Lis Piroton</i> A Tight Double-Exponentially Lower Bound for High-Multiplicity Bin Packing
9:50–10:40	Coffee Break	
	Session 10A (Prince Bishop Suite) Chair: Ben Moseley	Session 10B (Great Hall) Chair: Eric Balkanski
10:40–11:05	<i>Samir Khuller*, Mozhengfu Liu and Xueyan Tang</i> To delay or not to delay – Online Span Minimization	<i>Sven Jäger, Alexander Lindermayr and Bart Zondervan*</i> Tight Analysis of Proportional Fairness for Minimizing Weighted Flow Time in Monotone Polytope Scheduling
11:05–11:30	<i>Ekin Ergen*</i> Online Makespan Scheduling under Two Scenarios	<i>Frits Spieksma and Sten Wessel*</i> Fair Incomplete Round-Robin Tournaments
11:30–11:55	<i>Kunal Agrawal, Sanjoy Baruah, Gregory Kehne, Jubayer Nirjhor, Kei Rockwell* and Nicole Wein</i> Scheduling Jobs to Maximize Fractional Value	<i>Frits Spieksma*, Mark de Berg and Andrés López Martínez</i> The Price of Diversity of the Traveling Salesman Problem
12:00–13:00	Lunch	
ootnotesize 13:15- 18:30	Excursion (Raby Castle or Durham)	
19:00–21:00	Dinner	

Thursday, 25 June

	Session 11 (Prince Bishop Suite) Chair: Thomas Erlebach	
9:00–10:00	Keynote Talk: <i>Andreas Wiese</i> : Practical scheduling problems and where to find them ... at my university	
10:00–10:40	Coffee Break	
	Session 12 (Prince Bishop Suite) Chair: Kirk Pruhs	
10:40–11:55	Short Talks	
12:00–13:00	Lunch	
13:00–15:00	Collaboration	
	Session 13A (Prince Bishop Suite) Chair: Antonios Antoniadis	Session 13B (Great Hall) Chair: Andreas Wiese
15:00–15:25	<i>Max Huguen, Bob Krekelberg* and Alison Hsiang-Hsuan Liu</i> Online Firefighting on Cactus Graphs	<i>Debajyoti Kar, Arindam Khan and Malin Rau*</i> Improved Approximation Algorithms for Three-Dimensional Bin Packing
15:25–15:50	<i>Kunal Agrawal, Benjamin Moseley, Heather Newman and Kirk Pruhs*</i> Scheduling Out-Trees Online to Optimize Maximum Flow	<i>Debajyoti Kar, Arindam Khan, Malin Rau, Ann-Brith Strömberg and Albert Vesterlund*</i> A Tight 2-Approximation for Demand Bin Packing
15:50–16:30	Coffee Break	
	Session 14A (Prince Bishop Suite) Chair: Jens Schlöter	Session 14B (Great Hall) Chair: Ben Moseley
16:30–16:55	<i>Lars Rohwedder and Leander Schnaars*</i> Graph Scheduling with Group Completion Times	<i>Aflatoun Amouzandeh, Klaus Jansen, Lis Piroton, Rob van Stee* and Corinna Wambsganz</i> Online and offline algorithms for weighted makespan minimization
16:55–17:20	<i>Thomas Erlebach, Natalia Shakhlevich*, Akiyoshi Shioura and Jie Xu</i> Scheduling Framework for Edge-to-Cloud Task Offloading	<i>Alexander Lindermayr and Morten Weber*</i> Online Weighted Flow Time with Equal-Size Jobs
17:20–17:45	<i>Thomas Erlebach*, Naveen Garg, Sukriti Gupta and Amitabh Trehan</i> Approximating optimal broadcast of files in a hose-model network	<i>Felix Buld* and Andreas S. Schulz</i> Scheduling with Testing
17:45–19:00	Collaboration	
19:00–21:00	Dinner	

Friday, 26 June

	Session 15A (Prince Bishop Suite) Chair: Andreas Wiese	Session 15B (Great Hall) Chair: Rob van Stee
9:00–9:25	<i>Vipin Ravindran Vijayalakshmi, Marc Schroder and Tami Tamir*</i> Interval Scheduling Games	<i>Ziyad Benomar, Romain Cosson, Alexander Lindermayr* and Jens Schlöter</i> Non-Clairvoyant Scheduling with Progress Bars
9:25–9:50	<i>Etienne Bamas, Shi Li and Lars Rohwedder*</i> Randomized Rounding over Dynamic Programs	<i>Anupam Gupta, Haim Kaplan, Alexander Lindermayr, Jens Schlöter* and Sorrachai Yingchareonthawornchai</i> A Little Clairvoyance Is All You Need
9:50–10:40	Coffee Break	
	Session 16A (Prince Bishop Suite) Chair: Alexander Lindermayr	Session 16B (Great Hall) Chair: Jens Schlöter
10:40–11:05	<i>Evrpidis Bampis, Bruno Escoffier, Dimitris Fotakis, Giorgos Mitropoulos* and Michalis Xeferis</i> What to Predict for Efficient Scheduling on Multiple Machines?	<i>Federico Della Croce and Quentin Schau*</i> Revisiting Johnson's rule for minimizing makespan in the two-machine flow shop scheduling problem
11:05–11:30	<i>Eric Balkanski*, Vasilis Gkatzelis and Xizhi Tan</i> Strategyproof Scheduling with Predictions	<i>Lin Chen, Yixiong Gao*, Minming Li, Guohui Lin and Kai Wang</i> Revisit the Scheduling Problem with Calibrations
11:30–11:55	<i>Eric Balkanski, Jingwei Li*, Clifford Stein and Cherlin Zhu</i> Speed Predictions for Online Energy-Efficient Scheduling	
12:00–13:00	Lunch	