

	Sunday June 11	Monday June 12	Tuesday June 13	Wednesday June 14	Thursday June 15	Friday June 16
08:50-09:00		welcome				
09:00-10:00		keynote lecture	keynote lecture	keynote lecture	parallel sessions 09:00-09:50	parallel sessions 09:00-10:15
10:00-10:30		coffee break				
10:30-11:45		parallel sessions	parallel sessions	parallel sessions	parallel sessions	keynote lecture
11:45-12:00						farewell
12:00-13:30		lunch break				

15:30-16:00		coffee break			coffee break
16:00-17:15	16:00-19:00 registration	parallel sessions	parallel sessions	excursion + dinner 14:30-22:00	keynote lecture 16:00-17:00
17:15-17:40		coffee break			coffee break
17:40-18:30		parallel sessions	open problem session		parallel sessions 17:30-18:45
19:00-20:30		dinner			dinner

Monday June 12 - morning

08:50 - 09:00	OPENING & WELCOME		
09:00 - 10:00	KEYNOTE LECTURE Chair : Leen Stougie Some Open Problems in Scheduling Nikhil Bansal (TU Eindhoven)		
10:00 - 10:30	COFFEE BREAK		
10:30 - 11:45	PARALLEL SESSION A Chair: Hans Kellerer On Scheduling with a Sharable Resource Peter Kling*, Alexander Mäcker, Sören Riechers & Alexander Skopalik Restricted Assignment Scheduling with Resource Constraints Gyorgy Dosa, Hans Kellerer* & Zsolt Tuza Minimizing the Sum of Completion Times over Scenarios Thomas Bosman*, Martijn van Ee, Csanad Imreh, Alberto Marchetti-Spaccamela, Martin Skutella & Leen Stougie	PARALLEL SESSION B Chair: Federico Della Croce Routing Open Shop: A Hierarchy of Superproblems Ilya Chernykh* & Ekaterina Lgotina Scheduling Data Gathering in 2-Level Tree Networks Joanna Berlińska When Shop Scheduling Meets Dominoes, Eulerian and Hamiltonian Paths Jean-Charles Billaut, Federico Della Croce*, Fabio Salassa & Vicnent T'Kindt	PARALLEL SESSION C Chair: Alexander Souza Operating Room Scheduling with Variable Procedure Times Macarena Azar*, Javiera Barrera & Rodrigo Carrasco A Constraint Generation Procedure for Pre-Runtime Scheduling of Integrated Modular Avionic Systems Elina Rönnerberg*, Emil Karlsson, Tomas Lööv & Mathias Blikstad Single Machine Projections Alexander Tesch
12:00 - 13:30	LUNCH BREAK		

Monday June 12 - afternoon

15:30 - 16:00	COFFEE BREAK		
16:00 - 17:15	<p>PARALLEL SESSION A Chair: Sungjin Im</p> <p>Minimizing Maximum Flow Time on Related Machines via Immediate Dispatch and Dynamic Pricing Sungjin Im, Benjamin Moseley, Clifford Stein* & Kirk Pruhs</p> <p>Better Unrelated Machine Scheduling for Weighted Completion Time via Random Offsets from Non-Uniform Distributions Sungjin Im* & Shi Li</p> <p>Online Min-Sum Flow Scheduling with Rejections Giorgio Lucarelli*, Kim Thang Nguyen, Abhinav Srivastav & Denis Trystram</p>	<p>PARALLEL SESSION B Chair: Bala Kalyanasundaram</p> <p>Integration of Vehicle Maintenance Scheduling and Single Dead-End Track Parking on a Multi-Week Planning Horizon Murat Elhüseyni* & Ali Tamer Unal</p> <p>Three Models and a Set of Dominance Rules for the Speed Meeting Problem Benoit Cantais*, Antoine Jouglet & David Savourey</p> <p>k-letter Problem: Application, Approximation and Generalization Anfal Algharabally, Bala Kalyanasundaram* & Mahendran Velauthapillai</p>	<p>PARALLEL SESSION C Chair: Alberto Marchetti-Spaccamela</p> <p>Algorithms for Hierarchical and Semi-Partitioned Parallel Scheduling Vincenzo Bonifaci*, Gianlorenzo D'Angelo & Alberto Marchetti-Spaccamela</p> <p>Solving the Airline Manpower Planning Problem Fredrik Altenstedt*, Björn Thalén, Per Sjögren & Staffan Nilsson</p> <p>Decomposition algorithms for synchronous flow shop problems with additional resources and setup times Sigrid Knust* & Stefan Waldherr</p>
17:15 - 17:40	BREAK		
17:40 - 18:30	<p>PARALLEL SESSION A Chair: Julian Mestre</p> <p>An Integer Linear Programming Approach for Handling New Real-World Motivated Constraints of the Curriculum-Based Course Timetabling Problem Kerstin Maier* & Philipp Hungerländer</p> <p>Scheduling Meets n-fold Integer Programming Dusan Knop* & Martin Koutecky</p>	<p>PARALLEL SESSION B Chair: Christoph Dürr</p> <p>Online Packet Scheduling with Bounded Delay and Lookahead Martin Böhm, Marek Chrobak, Łukasz Jeż, Fei Li, Jiří Sgall & Pavel Veselý*</p> <p>An Adversarial Model for Scheduling with Testing Christoph Dürr, Thomas Erlebach, Julie Meißner* & Nicole Megow</p>	<p>PARALLEL SESSION C Chair: Martin Böhm</p> <p>Online Chromatic Number is PSPACE-complete Martin Böhm* & Pavel Veselý</p> <p>Computational Complexity, Resource Augmentation Bounds, and Models for Self-Suspending Real-Time Tasks Jian-Jia Chen*, Wen-Hung Huang & Georg von der Brueggen</p>

Tuesday June 13 – morning

<p>09:00 - 10:00</p>	<p>KEYNOTE LECTURE Chair : Susanne Albers</p> <p>Low-Congestion Shortcuts: Routing for Distributed Optimization Algorithms Bernhard Häupler (Carnegie Mellon University)</p>		
<p>10:00 - 10:30</p>	<p>COFFEE BREAK</p>		
<p>10:30 - 11:45</p>	<p>PARALLEL SESSION A Chair: Martin Skutella</p> <p>Improved Efficient Approximation Schemes for Scheduling Jobs on Identical and Uniform Machines Klaus Jansen*, Kim-Manuel Klein & José Verschae</p> <p>A 2.542-Approximation for Precedence Constrained Single Machine Scheduling with Release Dates and Total Weighted Completion Time Objective Martin Skutella</p> <p>The General Scheduling Problem with Uniform Release Dates is not APX-hard Antonios Antoniadis, Ruben Hoeksma*, Julie Meißner, José Verschae & Andreas Wiese</p>	<p>PARALLEL SESSION B Chair: Ulrich Vogl</p> <p>Models and Algorithms for a Partition Problem Arising in Warehousing Erwin Pesch*, Dominik Kress & Nils Boysen</p> <p>A New Approach to Predicting More Reliable Project Runtimes via Probabilistic Model Checking Ulrich Vogl* & Markus Siegle</p> <p>Line-side Placement as a Scheduling Problem to Minimize Time-Dependent Walk Times at Assembly Lines Helmut A. Sedding</p>	<p>PARALLEL SESSION C Chair: Stephan Westphal</p> <p>Online Interval Scheduling with Bounded Number of Failures Marco Bender, Clemens Thielen & Stephan Westphal*</p> <p>Scheduling in Advanced OFDMA Wireless Networks: An Algorithmic Perspective Reuven Cohen* & Guy Grebla</p> <p>Multiprocessor Real-Time Scheduling with Hierarchical Processor Affinities Vincenzo Bonifaci, Björn Brandenburg, Gianlorenzo D'Angelo & Alberto Marchetti-Spaccamela*</p>
<p>12:00 - 13:30</p>	<p>LUNCH BREAK</p>		

Tuesday June 13 – afternoon

15:30 - 16:00	COFFEE BREAK		
16:00 - 17:15	<p>PARALLEL SESSION A Chair: Martijn van Ee</p> <p>Tight Competitive Analysis for Online TSP on the Line Antje Bjelde, Yann Disser, Jan Hackfeld, Christoph Hansknecht, Maarten Lipmann, Julie Meissner, Kevin Schewior*, Miriam Schlöter & Leen Stougie</p> <p>Complexity and Online Algorithms for a Coloring Problem on a Line Thomas Erlebach, Fu-Hong Liu, Hsiang-Hsuan Liu*, Mordechai Shalom, Prudence W.H. Wong & Shmuel Zaks</p> <p>Generalized Lower Bounds for Online Matching on the Line Carsten Fischer*, Antonios Antoniadis & Andreas Tönnis</p>	<p>PARALLEL SESSION B Chair: Dirk Briskorn</p> <p>Branch-and-cut for Machine Scheduling with Non-Renewable Resources and the Maximum Lateness Objective Peter Gyorgyi* & Tamas Kis</p> <p>Optimal Algorithms for Train Shunting and Relaxed List Update Problems Alexander Souza* & Tim Nonner</p> <p>On the Parameterized Complexity of Scheduling with Side Constraints: Recent Results and New Challenges René Van Bevern</p>	<p>PARALLEL SESSION C Chair: Heiner Ackermann</p> <p>Computing Efficient Pressing Operations for Glued Laminated Timber Production Heiner Ackermann* & Andreas Dinges</p> <p>A New Model of Continuous Learning and its Applications in Scheduling Bartłomiej Przybylski</p> <p>Interactive Decision Support for Multi-Goal Operating Theater Scheduling with Different Planning Horizons Michael Helmling* & Sebastian Velten</p>
17:15 - 17:40	BREAK		
17:40 - 18:30	OPEN PROBLEM SESSION Chair: Tjark Vredeveld		

Wednesday June 14 – morning

09:00 - 10:00	KEYNOTE LECTURE Chair: Marc Uetz Improved Approximation for Tree Augmentation via Chvatal Gomory Cuts Jochen Koenemann (University of Waterloo)		
10:00 - 10:30	COFFEE BREAK		
10:30 - 11:20	PARALLEL SESSION A Chair: Tobias Mömke To Augment or Not to Augment: Solving Unsplittable Flow on a Path by Creating Slack Fabrizio Grandoni, Tobias Mömke*, Andreas Wiese & Hang Zhou A Priori TSP in the Scenario Model Martijn van Ee*, Leo van Iersel, Teun Janssen & Rene Sitters	PARALLEL SESSION B Chair: Erwin Pesch Container Dispatching and Conflict-Free Yard Crane Routing in an Automated Container Terminal Dirk Briskorn*, Jenny Nossack and Erwin Pesch An FPTAS of Minimizing Total Weighted Completion Time on a Single Machine with Position Constraint Gruia Calinescu, Florian Jaehn, Minming Li* & Kai Wang	PARALLEL SESSION C Chair: Liliana Grigoriu Linear-Time Approximation for Minimum Subset Sum and Subset Sum Liliana Grigoriu Scheduling Recurring and Optional Activities for Radiotherapy considering Stable Treatment Starting Times Petra Vogl*, Roland Braune & Karl F. Doerne
SHORT BREAK			
11:30 - 12:20	PARALLEL SESSION A Chair: Jochen Könemann A Generalization of the Knapsack-Cover Inequalities for Linear Functions with Fixed Costs Ignacio Morales* & José Verschae	PARALLEL SESSION B Chair: Thomas Kesselheim The Temp Secretary Problem and Partly-Stochastic Models for Online Scheduling Thomas Kesselheim & Andreas Tönnis* Conflict Graphs and Scheduling in Wireless Networks Eyjólfur Ingi Ásgeirsson*, Magnus M. Halldorsson & Tigran Tonoyan	PARALLEL SESSION C Chair: Jiří Sgall On Packet Scheduling with Adversarial Jamming and Speedup Martin Böhm, Łukasz Jeż, Jiří Sgall* & Pavel Veselý Optimizing Egalitarian Performance in the Side-Effects Model of Colocation for Data Center Resource Management Fanny Pascual & Krzysztof Rzdca*
12:30 - 13:30	LUNCH BREAK		

Thursday June 15 - morning

<p>09:00 - 09:50</p>	<p>PARALLEL SESSION A Chair: Kevin Schewior</p> <p>The Itinerant List Update Problem Neil Olver, Kirk Pruhs*, Kevin Schewior, Rene Sitters & Leen Stougie</p> <p>The Greedy Algorithm for Capacitated Covering Problems Britta Peis, José Verschae & Andreas Wierz*</p>	<p>PARALLEL SESSION B Chair: Bodo Manthey</p> <p>A Parallel Machine Lot-Sizing and Scheduling Problem with Secondary Resource and Cumulative Demand Murat Güngör* & Ali Tamer Ünal</p> <p>Scheduling Demand Response on the French Spot Power Market for Water Distribution Systems by Optimizing the Pump Scheduling Chouaib Mkireb*, Abel Dembele, Antoine Jouglet & Thierry Denoeux</p>	<p>PARALLEL SESSION C Chair: Vitaly Strusevich</p> <p>An Exact Method for Solving the Two-Machine Flow-Shop Problem with Time Delays Mohamed Amine Mkadem*, Aziz Moukrim & Mehdi Serairi</p> <p>A New Necessary Condition of Optimality for a Single Machine Scheduling Problem with Deteriorating Jobs Gawiejnowicz Stanislaw* & Kurc Wieslaw</p>
<p>09:50 - 10:30</p>	<p>COFFEE BREAK</p>		
<p>10:30 - 11:45</p>	<p>PARALLEL SESSION A Chair: Klaus Jansen</p> <p>Scheduling When You Don't Know the Number of Machines Clifford Stein & Mingxian Zhong*</p> <p>Faster Approximation Schemes for the Two-Dimensional Knapsack Problem Sandy Heydrich* & Andreas Wiese</p> <p>On Minimizing the Makespan with Bag Constraints Syamantak Das* & Andreas Wiese</p>	<p>PARALLEL SESSION B Chair: Samir Khuller</p> <p>Hybrid Adaptive Particle Swarm Optimization Algorithm for the Permutation Flowshop Scheduling Problem Yannis Marinakis* & Magdalene Marinaki</p> <p>On Scheduling Co-Flows Saba Ahmadi, Samir Khuller*, Manish Purohit and Sheng Yang</p>	<p>PARALLEL SESSION C Chair: Vincenzo Bonifaci</p> <p>A Branch and Bound Approach for Single Machine Scheduling in the Automotive Supply Chain Paul Göpfert* & Stefan Bock</p> <p>Delayed-Clairvoyant Scheduling Sorrachai Yingchareonthawornchai* & Eric Torng</p> <p>Schedulability Analysis of Dependent Probabilistic Real-Time Tasks Slim Ben-Amor*, Dorin Maxim & Liliana Cucu-Grosjean</p>
<p>12:00 - 13:30</p>	<p>LUNCH BREAK</p>		

Thursday June 15 - afternoon

<p>15:30 - 16:00</p>	<p>COFFEE BREAK</p>		
<p>16:00 - 17:00</p>	<p>KEYNOTE LECTURE Chair: Cliff Stein</p> <p>Local Flow Partitioning for Faster Edge Connectivity or Flow beats PageRank Monika Henzinger (University of Vienna)</p>		
<p>17:00 - 17:30</p>	<p>BREAK</p>		
<p>17:30 - 18:45</p>	<p>PARALLEL SESSION A Chair: Kirk Pruhs</p> <p>Beating the Harmonic Lower Bound for Online Bin Packing Sandy Heydrich & Rob van Stee*</p> <p>On Energy Efficient Scheduling of Parallel Jobs with Preemption Alexander Kononov* & Yulia Kovalenko</p> <p>Robust Assignments: Hardness, Approximability and Algorithms Viktor Bindewald*, David Adjiashvili & Dennis Michaels</p>	<p>PARALLEL SESSION B Chair: Frits Spieksma</p> <p>On the Optima Localization in Two-Machine Routing Open Shops Ilya Chernykh* & Ekaterina Lgotina</p> <p>Exact Algorithms for the Equitable Traveling Salesman Problem Joris Kinable, Bart Smeulders, Frits Spieksma* & Eline Delcour</p> <p>Polyhedral Results and Valid Inequalities for the Continuous Energy-Constrained Scheduling Problem Margaux Nattaf*, Tamas Kis, Christian Artigues & Pierre Lopez</p>	<p>PARALLEL SESSION C Chair: Marc Uetz</p> <p>Efficient Frameworks for Utilization-Based Analysis for Fixed-Priority Scheduling in Real-Time Systems Jian-Jia Chen*, Wen-Hung Huang & Cong Liu</p> <p>Make-to-Order Integrated Scheduling and Distribution Yossi Azar, Amir Epstein, Łukasz Jeż* & Adi Vardi</p> <p>Competitive Greedy Algorithms for Stochastic Unrelated Machine Scheduling Varun Gupta, Ben Moseley, Marc Uetz* & Qiaomin Xie</p>

Friday June 16 – morning

<p>09:00 - 10:15</p>	<p>PARALLEL SESSION A Chair: Britta Peis</p> <p>How to Allocate Prices to Random Customers? José Correa, Patricio Foncea, Ruben Hoeksma, Tim Oosterwijk* & Tjark Vredeveld</p> <p>Competitive Packet Routing with Priority Lists Tobias Harks, Britta Peis, Daniel Schmand, Björn Tauer* & Laura Vargas Koch</p> <p>Scheduling Maintenance Jobs in Networks Roman Rischke*, Lin Chen, Yann Disser, Martin Groß, Fidaa Abed, Nicole Megow, Julie Meißner & Alexander T. Richter</p>	<p>PARALLEL SESSION B Chair: Antonios Antoniadis</p> <p>New Structural Results for Bin Packing with a Constant Number of Item Types Klaus Jansen & Kim-Manuel Klein*</p> <p>A Note on Online Machine Minimization Yossi Azar & Sarel Cohen*</p> <p>Maximizing the Minimum Gap Marin Bougeret, Guillaume Duvillié* & Rodolphe Giroudeau</p>	<p>PARALLEL SESSION C Chair: Tobias Hofmann</p> <p>Problems of Scheduling with Imprecise Computation Revisited Vitaly Strusevich*, Natalia Shakhlevich & Akiyoshi Shioura</p> <p>A New Mixed Time Framework for the Periodically Aggregated Resource-Constrained Project Scheduling Problem Pierre-Antoine Morin*, Christian Artigues & Alain Hait</p> <p>A Variant of the Periodic Event Scheduling Problem and its Cycle Periodicity Formulation Tobias Hofmann</p>
<p>10:15 - 10:45</p>	COFFEE BREAK		
<p>10:45 - 11:45</p>	<p>KEYNOTE LECTURE Chair: Nicole Megow</p> <p>Online Scheduling of Bidirectional Traffic Rolf H. Möhring (Beijing Center for Scientific and Engineering Computing and TU Berlin)</p>		
<p>11:45 - 12:00</p>	CLOSING & FAREWELL		
<p>12:00 - 13:30</p>	LUNCH BREAK		

