

## Monday June 12th - morning

<b>08:50</b> - <b>09:00</b>	OPENING & WELCOME		
<b>09:00</b> - <b>10:00</b>	KEYNOTE LECTURE  <b>Some open problems in scheduling</b> Nikhil Bansal (TU Eindhoven)		
<b>10:00</b> - <b>10:30</b>	COFFEE BREAK		
<b>10:30</b> - <b>11:45</b>	PARALLEL SESSION A  <b>On Scheduling with a Sharable Resource</b> Peter Kling*, Alexander Mäcker, Sören Riechers & Alexander Skopalik  <b>Restricted Assignment Scheduling with Resource Constraints</b> Gyorgy Dosa, Hans Kellerer* & Zsolt Tuza  <b>Minimizing the sum of completion times over scenarios</b> Thomas Bosman*, Martijn van Ee, Csanad Imreh, Alberto Marchetti-Spaccamela, Martin Skutella & Leen Stougie	PARALLEL SESSION B  <b>Routing open shop: a hierarchy of superproblems</b> Ilya Chernykh* & Ekaterina Lgotina  <b>Scheduling data gathering in 2-level tree networks</b> Joanna Berlińska  <b>When shop scheduling meets dominoes, eulerian and hamiltonian paths</b> Jean-Charles Billaut, Federico Della Croce*, Fabio Salassa & T'Kindt Vincent	PARALLEL SESSION C  <b>Operating Room Scheduling with Variable Procedure Times</b> Macarena Azar*, Javiera Barrera & Rodrigo Carrasco  <b>A constraint generation procedure for pre-runtime scheduling of integrated modular avionic systems</b> Elina Rönnerberg*, Emil Karlsson, Tomas Lööv & Mathias Blikstad  <b>Single Machine Projections</b> Alexander Tesch
<b>12:00</b> - <b>13:15</b>	LUNCH BREAK		

## Monday June 12th – afternoon

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

**Tuesday June 13th – morning**

<p><b>09:00</b> - <b>10:00</b></p>	<p>KEYNOTE LECTURE</p> <p><b>Low-Congestion Shortcuts: Routing for Distributed Optimization Algorithms</b> Bernhard Häupler (Carnegie Mellon University)</p>		
<p><b>10:00</b> - <b>10:30</b></p>	<p>COFFEE BREAK</p>		
<p><b>10:30</b> - <b>11:45</b></p>	<p>PARALLEL SESSION A</p> <p><b>Improved efficient approximation schemes for scheduling jobs on identical and uniform machines</b> Klaus Jansen*, Kim-Manuel Klein &amp; José Verschae</p> <p><b>A 2.542-Approximation for Precedence Constrained Single Machine Scheduling with Release Dates and Total Weighted Completion Time Objective</b> Martin Skutella</p> <p><b>The general scheduling problem with uniform release dates is not APX-hard</b> Antonios Antoniadis, Ruben Hoeksma*, Julie Meißner, José Verschae &amp; Andreas Wiese</p>	<p>PARALLEL SESSION B</p> <p><b>Models and algorithms for a partition problem arising in warehousing</b> Erwin Pesch*, Dominik Kress &amp; Nils Boysen</p> <p><b>A new approach to predicting more reliable project runtimes via probabilistic model checking</b> Ulrich Vogl* &amp; Markus Siegle</p> <p><b>Line-side placement as a scheduling problem to minimize time-dependent walk times at assembly lines</b> Helmut A. Sedding</p>	<p>PARALLEL SESSION C</p> <p><b>Online Interval Scheduling with Bounded Number of Failures</b> Marco Bender, Clemens Thielen &amp; Stephan Westphal*</p> <p><b>Scheduling in Advanced OFDMA Wireless Networks: An Algorithmic Perspective</b> Reuven Cohen* &amp; Guy Grebla</p> <p><b>Multiprocessor Real-Time Scheduling with Hierarchical Processor Affinities</b> Vincenzo Bonifaci, Björn Brandenburg, Gianlorenzo D'Angelo &amp; Alberto Marchetti-Spaccamela*</p>
<p><b>12:00</b> - <b>13:15</b></p>	<p>LUNCH BREAK</p>		

## Tuesday June 13th - afternoon

	PARALLEL SESSION A	PARALLEL SESSION B	PARALLEL SESSION C
16:00 - 17:15	<p><b>Tight Competitive Analysis for Online TSP on the Line</b> Antje Bjelde, Yann Disser, Jan Hackfeld, Christoph Hansknecht, Maarten Lipmann, Julie Meissner, Kevin Schewior*, Miriam Schlöter &amp; Leen Stougie</p> <p><b>Complexity and online algorithms for a coloring problem on a line</b> Thomas Erlebach, Fu-Hong Liu, Hsiang-Hsuan Liu*, Mordechai Shalom, Prudence W.H. Wong &amp; Shmuel Zaks</p> <p><b>Generalized Lower Bounds for Online Matching on the Line</b> Carsten Fischer*, Antonios Antoniadis &amp; Andreas Tönnis</p>	<p><b>Branch-and-cut for machine scheduling with non-renewable resources and the maximum lateness objective</b> Peter Gyorgyi* &amp; Tamas Kis</p> <p><b>Optimal Algorithms for Train Shunting and Relaxed List Update Problems</b> Alexander Souza* &amp; Tim Nonner</p> <p><b>On the parameterized complexity of scheduling with side constraints: Recent results and new challenges</b> René Van Bevern</p>	<p><b>Computing efficient pressing operations for glued laminated timber production</b> Heiner Ackermann* &amp; Andreas Dinges</p> <p><b>A new model of continuous learning and its applications in scheduling</b> Bartłomiej Przybylski</p> <p><b>Interactive decision support for multi-goal operating theater scheduling with different planning horizons</b> Michael Helmling* &amp; Sebastian Velten</p>
17:15 - 17:40	BREAK		
17:40 - 18:30	OPEN PROBLEM SESSION		

## Wednesday June 14th – morning

<b>09:00</b> - <b>10:00</b>	KEYNOTE LECTURE  <b>Improved Approximation for Tree Augmentation via Chvatal Gomory Cuts</b> Jochen Könemann (University of Waterloo)		
<b>10:00</b> - <b>10:30</b>	COFFEE BREAK		
<b>10:30</b> - <b>11:20</b>	PARALLEL SESSION A  <b>To Augment or Not to Augment: Solving Unsplittable Flow on a Path by Creating Slack</b> Fabrizio Grandoni, Tobias Mömke*, Andreas Wiese & Hang Zhou  <b>A priori TSP in the scenario model</b> Martijn van Ee*, Leo van Iersel, Teun Janssen & Rene Sitters	PARALLEL SESSION B  <b>Container Dispatching and Conflict-Free Yard Crane Routing in an Automated Container Terminal</b> Dirk Briskorn*, Jenny Nossack and Erwin Pesch  <b>An FPTAS of Minimizing Total Weighted Completion Time on a Single Machine with Position Constraint</b> Gruia Calinescu, Florian Jaehn, Minming Li* & Kai Wang	PARALLEL SESSION C  <b>Linear-time approximation for minimum subset sum and subset sum</b> Liliana Grigoriu  <b>Scheduling Recurring and Optional Activities for Radiotherapy considering Stable Treatment Starting Times</b> Petra Vogl*, Roland Braune & Karl F. Doerne
<b>11:30</b> - <b>12:20</b>	PARALLEL SESSION A  <b>Covering a tree with rooted subtrees -- parameterized and approximation algorithms</b> Lin Chen* & Dániel Marx  <b>A generalization of the Knapsack-Cover inequalities for linear functions with fixed costs</b> Ignacio Morales* & José Verschae	PARALLEL SESSION B  <b>The Temp Secretary Problem and Partly-Stochastic Models for Online Scheduling</b> Thomas Kesselheim & Andreas Tönnis*  <b>Conflict Graphs and Scheduling in Wireless Networks</b> Eyjólfur Ingi Ásgeirsson*, Magnus M. Halldorsson & Tigran Tonoyan	PARALLEL SESSION C  <b>On Packet Scheduling with Adversarial Jamming and Speedup</b> Martin Böhm, Łukasz Jeż, Jiří Sgall* & Pavel Veselý  <b>Optimizing egalitarian performance in the side-effects model of colocation for data center resource management</b> Fanny Pascual & Krzysztof Rzdca*
<b>12:30</b> - <b>13:45</b>	LUNCH BREAK		

## Thursday June 14th - morning

<b>09:00</b> - <b>09:50</b>	<p>PARALLEL SESSION A</p> <p><b>The Itinerant List Update Problem</b> Neil Olver, Kirk Pruhs*, Kevin Schewior, Rene Sitters &amp; Leen Stougie</p> <p><b>The Greedy Algorithm for Capacitated Covering Problems</b> Britta Peis, José Verschae &amp; Andreas Wierz*</p>	<p>PARALLEL SESSION B</p> <p><b>A parallel machine lot-sizing and scheduling problem with secondary resource and cumulative demand</b> Murat Güngör* &amp; Ali Tamer Ünal</p> <p><b>Scheduling Demand Response on the French Spot Power Market for Water Distribution Systems by Optimizing the Pump Scheduling</b> Chouaib Mkireb*, Abel Dembele, Antoine Jouglet &amp; Thierry Denoeux</p>	<p>PARALLEL SESSION C</p> <p><b>An exact method for solving the two-machine flow-shop problem with time delays</b> Mohamed Amine Mkaem*, Aziz Moukrim &amp; Mehdi Serairi</p> <p><b>A new necessary condition of optimality for a single machine scheduling problem with deteriorating jobs</b> Gawiejnowicz Stanislaw* &amp; Kurc Wieslaw</p>
<b>09:50</b> - <b>10:30</b>	COFFEE BREAK		
<b>10:30</b> - <b>11:45</b>	<p>PARALLEL SESSION A</p> <p><b>Scheduling When You Don't Know the Number of Machines</b> Clifford Stein &amp; Mingxian Zhong*</p> <p><b>Faster approximation schemes for the two-dimensional knapsack problem</b> Sandy Heydrich* &amp; Andreas Wiese</p> <p><b>On minimizing the makespan with bag constraints</b> Syamantak Das* &amp; Andreas Wiese</p>	<p>PARALLEL SESSION B</p> <p><b>Hybrid Adaptive Particle Swarm Optimization Algorithm for the Permutation Flowshop Scheduling Problem</b> Yannis Marinakis* &amp; Magdalene Marinaki</p> <p><b>On Scheduling Co-Flows</b> Saba Ahmadi, Samir Khuller*, Manish Purohit and Sheng Yang</p>	<p>PARALLEL SESSION C</p> <p><b>A Branch and Bound Approach for Single Machine Scheduling in the Automotive Supply Chain</b> Paul Göpfert* &amp; Stefan Bock</p> <p><b>Delayed-Clairvoyant Scheduling</b> Sorrachai Yingchareonthawornchai* &amp; Eric Torng</p> <p><b>Schedulability analysis of dependent probabilistic real-time tasks</b> Slim Ben-Amor*, Dorin Maxim &amp; Liliana Cucu-Grosjean</p>
<b>12:00</b> - <b>13:15</b>	LUNCH BREAK		

## Thursday June 14th – afternoon

<b>16:00</b> - <b>17:00</b>	KEYNOTE LECTURE  <b>Local Flow Partitioning for Faster Edge Connectivity or Flow beats PageRank</b> Monika Henzinger (University of Vienna)		
<b>17:00</b> - <b>17:30</b>	BREAK		
<b>17:30</b> - <b>18:45</b>	PARALLEL SESSION A  <b>Beating the Harmonic lower bound for online bin packing</b> Sandy Heydrich & Rob van Stee*  <b>On Energy Efficient Scheduling of Parallel Jobs with Preemption</b> Alexander Kononov* & Yulia Kovalenko  <b>Robust Assignments: Hardness, Approximability and Algorithms</b> Viktor Bindewald*, David Adjiashvili & Dennis Michaels	PARALLEL SESSION B  <b>On the optima localization in two-machine routing open shops</b> Ilya Chernykh* & Ekaterina Lgotina  <b>Exact algorithms for the Equitable Traveling Salesman Problem</b> Joris Kinable, Bart Smeulders, Frits Spieksma* & Eline Delcour  <b>Polyhedral results and valid inequalities for the Continuous Energy-Constrained Scheduling Problem</b> Margaux Nattaf*, Tamas Kis, Christian Artigues & Pierre Lopez	PARALLEL SESSION C  <b>Efficient Frameworks for Utilization-Based Analysis for Fixed-Priority Scheduling in Real-Time Systems</b> Jian-Jia Chen*, Wen-Hung Huang & Cong Liu  <b>Make-to-Order Integrated Scheduling and Distribution</b> Yossi Azar, Amir Epstein, Łukasz Jeż* & Adi Vardi  <b>Competitive greedy algorithms for stochastic unrelated machine scheduling</b> Varun Gupta, Ben Moseley, Marc Uetz* & Qiaomin Xie

## Friday June 15th - morning

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



