Monday

8:50	**Welcome**: Marc Uetz, Tjark Vredeveld, Cliff Stein	
9:00	**Invited Speaker: Chandra Chekuri**	
	Online Broadcast Scheduling: New Perspectives and Results	
9:50	**Plenary**: Nikhil Bansal, Ho-Leung Chan and **Kirk Pruhs**	
	Speed Scaling with an Arbitrary Power Function	
10:20	**Coffee Break**	
11:00	**Parallel Sessions**	

Session A	Session B
Schulz and Uhan	**Elvikis**, Hamacher and T'Kindt
Near-Optimal Solutions and Large Integrality Gaps for Almost All Instances of Single-Machine Precedence-Constrained Scheduling	*Scheduling two interfering job sets on uniform parallel machines with sum and makespan criteria*
Kordon, Kacem, Dupont de Dinechin and Finta	**Urlings** and Ruiz
Minimizing the makespan for an interval ordered precedence graph on m processors with communication delays and unit execution time tasks	*A new algorithm for multidimensional scheduling problems*
Koch, Peis, Skutella and Wiese	**Zinder** and Walker
Routing and Scheduling Messages through Communication Networks: Approximation Algorithms and Complexity	*Scheduling flexible multiprocessor tasks on parallel machines*
Ambühl, Mastrolilli, Mutsanas and Svensson	Hanen, Lacomme, Medernach and **Sanlaville**
Precedence Constraint Scheduling: Connections to Dimension Theory of Partial Orders and Inapproximability Results	*Two formulations for a grid cyclic scheduling problem*

12:30	**Lunch**	
14:30	**Parallel Sessions**	

Session A	Session B
Goossens, Polyakovskiy, Spieksma and Woeginger	Cucu-Grosjean and Sorel
The focus of attention problem	*A schedulability test for real-time dependant periodic task systems with latency constraints*
Harren and Van Stee	**Gordon** and Strusevich
An Absolute 2-Approximation for Rectangle Packing	*Single machine due date assignment and scheduling with positionally dependent processing times*
Hiller and Vredeveld	Bell and Wong
Stochastic dominance analysis of online bin coloring algorithms	*Multiprocessor Speed Scaling for Jobs with Arbitrary Sizes and Deadlines*
Günther, König and Megow	**Fung**
The Bin Scheduling Problem	*Online Algorithms for Maximizing Weighted Throughput of Unit Jobs with Temperature Constraints*

15:50	**Coffee Break**	
16:20	**Plenary: Matthias Englert**, Deniz Özmen and Matthias Westermann	
	The Power of Reordering for Online Minimum Makespan Scheduling	
16:50	**Short Break & Room Change**	
17:00	**Parallel Sessions**	

Session A	Session B
Correa, Skutella and **Verschae**	**Chan**, Chin, Ting and Zhang
The power of preemption on unrelated machines and applications to scheduling orders	*Online Tree Node Assignment with Resource Augmentation*
Sitters	**Kern** and Paulus
Minimizing average flow time on unrelated machines	*On the lower bound for online strip packing*
Höhn, Jacobs and Megow	**Saliba**, Krumke, Hiller and Tuchscherer
On Eulerian Extension Problems and their Application to Sequencing Problems	*Randomized online algorithms for the dynamic multiperiod routing problem*
Ebenlendr and Sgall	
Semi-Online Preemptive Scheduling: One Algorithm for All Variants	

19:00	**Welcome Reception & Dinner**	

Tuesday

9:00	**Invited Speaker**: Sanjoy K. Baruah
	Temporal Isolation in Multi-User Real-Time Environments
9:50	**Plenary**: M. Mastrolilli, M. Queyranne, A.S. Schulz, O. Svensson and N.A. Uhan
	Minimizing the sum of weighted completion times in a concurrent open shop
10:20	**Coffee Break**
11:00	**Parallel Sessions**

Session A	Session B
Edmonds and Pruhs	Adineh-Vand, Parandin, **Azghadi** and Khalilzadeh
Scalably Scheduling Processes with Arbitrary Speedup Curves	*Solving Multi-Processor Task Scheduling Problem Using a Combinatorial Evolutionary Algorithm*
Han, Lam, Lee, To and Wong	Van den Akker, **Hoogeveen** and Kammer
Deadline Scheduling and Power Management for Speed Bounded Processors	*Simulated annealing with commonalities for the job shop scheduling problem*
Greiner, **Nonner** and Souza	**Bougeret**, Dutot and Trystram
The Bell is Ringing in Speed-Scaled Multiprocessor Scheduling	*The guess approximation technique and its application to the Discrete Resource Sharing Scheduling Problem*
Coene, Woeginger and Spieksma	**Piana** and Engell
Charlemagne's challenge: the periodic latency problem	*Evolutionary Scheduling in Pipeless Chemical Batch Plants on the Basis of a Simulation and Approximation Mode*

12:30	**Lunch**
14:30	**Parallel Sessions**

Session A	Session B
Bonifaci, Marchetti-Spaccamela and Stiller	**Kozan**
A $(2 - \frac{1}{m})$-approximate feasibility test for sporadic multiprocessor real-time scheduling	*A Robust Reactive Scheduling Model for Intensive Care Units*
Fisher and Dewan	**Kis** and Kovács
Minimum Capacity Allocation for EDF-Scheduled Recurring Tasks upon a Periodic Resource	*On bilevel machine scheduling problems*
Dürr, **Jeż** and Nguyen	Shioura, Shakhlevich and **Strusevich**
Online Scheduling of Bounded Length Jobs to Maximize Throughput	*A divide-and-conquer algorithm for polymatroidal formulation of scheduling with controllable processing times*
Fung, Poon and Zheng	Ásgeirsson, Carpenter, Leemis, **Phillips**, Phillips and Stein
Improved Randomized Online Scheduling of Intervals and Jobs	*Managing Magnetic Resonance Imaging Machines: Optimal Purchases and Schedules*

15:50	**Coffee Break**
16:20	**Plenary**: Monaldo Mastrolilli and Ola Svensson
	(Acyclic) Job Shops are Hard to Approximate
16:50	**Short Break & Room Change**
17:00	**Parallel Sessions**

Session A	Session B
Karakostas, Kolliopoulos and Wang	**Hemig** and Zimmermann
An FPTAS for the minimum total weighted tardiness problem with a fixed number of distinct due dates	*Integrated Production and Staff Planning in the Automotive Industry*
Chang, **Erlebach**, Gailis and Khuller	**Pawlak** and Kimms
Broadcast Scheduling: Algorithms and Complexity	*Workers assignment in the assembly line balancing problem*
Hansen and Krumke	**Ásgeirsson**
The complexity of integrating timetabling and vehicle scheduling	*Staff Scheduling with Partial Schedules from Employees*
Eggermont, Fırat, Hurkens and Modelski	**Fırat** and Hurkens
Disruption Management for Commercial Aviation, ROADEF 2009 Challenge	*Constructing Stable Schedules of Tasks with Skill Requirements*

19:00	**Dinner**

Wednesday	
9:00	**Invited Speaker**: **Friedrich Eisenbrand**
	Real-time Scheduling: Approximation Algorithms and Hardness Results
9:50	**Plenary**: **Chris N. Potts** and Vitaly A. Strusevich
	Fifty Years of Scheduling: A Survey of Milestones
10:40	**Coffee Break**
11:20	**Parallel Sessions**

Session A	Session B
Koufogiannakis and **Young**	Shioura, **Shakhlevich** and Strusevich
Beating simplex for fractional packing and covering linear programs	*A divide-and-conquer algorithm for polymatroidal formulation of scheduling with controllable processing times: Applications*
Sherman, Nieh and Stein	Blaschek, **Fishkin**, Feigl, Heller, Lebersorger, Müller and Scheidl
Fair Distributed Scheduling Algorithm for a P2P System	*On Solving Scheduling Problems by Using OptLets*

12:00	**Lunch**
14:00	**Social Event**
18:30	**Conference Dinner in 'La Caverne De Geulhem'**

Thursday

9:00	**Invited Speaker**: **Tim Roughgarden**

Scheduling in Algorithmic Game Theory

9:50	**Plenary**: **Nikhil Bansal** and Subhash Khot

On hardness of minimizing weighted completion time with precedence constraints

10:20	**Coffee Break**
11:00	**Parallel Sessions**

Session A	Session B
Mastrolilli, **Mutsanas** and Svensson	Bianco and Caramia
Approximating Single Machine Scheduling with Scenarios	*The Resource Constraints Project Scheduling Problem with Feeding Precedence Relations: A Lower Bound*
Baptiste	Ebenlendr and **Sgall**
Scheduling Identical Coupled Tasks in Constant Time (almost)	*A lower bound for scheduling of unit jobs with immediate decision on parallel machines*
Zajíček, Sgall and Ebenlendr	**Pessan**, Haouari and Néron
Scheduling Parallel Jobs on Hypercubes	*Energetic reasoning and production resetting optimization*
Van den Akker, Hoogeveen and Diepen	**Briskorn**, Choi, Lee, Leung and Pinedo
More Efficient Algorithms for Resource Constrained Project Scheduling Problems	*Single machine scheduling with regard to inventory constraints*

12:30	**Lunch**
14:30	**Parallel Sessions**

Session A	Session B
Dürr and **Nguyen**	**Kovalyov** and Pesch
Non-Clairvoyant Scheduling Games	*A generic approach to proving NP-hardness of partition type scheduling and other combinatorial problems*
Marchetti-Spaccamela, Megow, Skutella and Stougie	Munier-Kordon and Rebaine
Price of robustness in single machine scheduling	*Scheduling coupled unit-time operations on identical parallel machines*
Thielen	**Van den Broek** and Hurkens
Generalized Truthful Mechanisms for Scheduling Verifiable Related Machines	*A branch and bound algorithm for job shops with no-wait and blocking precedence constraints*
Epstein, Kleiman and **Van Stee**	Sotelo Pinheiro da Silva and Poggi
Maximizing the Minimum Load: The Cost of Selfishness	*A Linear-time Approximation Algorithm for Permutation Flow Shop Scheduling Problem*

15:50	**Coffee Break**
16:20	**Plenary**: Tomáš Ebenlendr, **Marek Krčál** and Jiří Sgall

Graph Balancing: A Special Case of Scheduling Unrelated Parallel Machines

16:50	**Short Break & Room Change**
17:00	**Parallel Sessions**

Session A	Session B
Horbach and Briskorn	Balogh, Békési, Galambos and Krész
An exact method for Scheduling Real World Sports Leagues	*Model and Algorithm for a Vehicle Scheduling Problem with Refueling*
Höhn, König, Lübbecke and Möhring	Grigoriev and **Kononov**
Scheduling in Coil Coating with Shuttles	*How to price parallel machines to maximize the revenue*
Hiller, **Klug** and Tuchscherer	Brouwer, Post and Woeginger
Improving the performance of elevator systems using exact reoptimization algorithms	*Tight bounds for break minimization in tournament scheduling*
Henzinger, Radovanovic and **Stein**	**Rutten**
Scheduling a Large Datacenter	*Scheduling in a complex setting*

19:00	**Dinner**

Friday	
9:30	**Invited Speaker: Frits C.R. Spieksma**
	Scheduling a Soccer League
10:20	**Coffee Break**
11:00	**Parallel Sessions**

Session A	Session B
Kononov, Sevastyanov and Sviridenko	**Sterna** and Juraszek
Complete Complexity Classification of Short Shop Scheduling	*On-line scheduler for web service for language translation*
Sevastyanov, Lin and Hwang	Błażewicz, **Mahowiak** and Oğuz
Makespan Minimization in Parallel Flow Shops	*Worst case analysis for berth and quay crane allocation problem*
Chubanov and Pesch	**Bley**, Boland, Fricke and Froyland
An approximation scheme for concave network flow problems	*Clique-based facets for the precedence constrained knapsack problem*
Alfieri, Glass and Van de Velde	**Funk** and Meka
Two-machine lotstreaming with setup times	*U-LLREF: An Optimal Scheduling Algorithm for Uniform Multiprocessors*

12:30	**Lunch**