Monday

08:00 Registration
09:00 Openning Session
09:30 Invited Talk

Nikhil Basal
Scheduling algorithms for power management

10:30 Coffee break
11:00 Plenary Talks (2*30 min)

Clifford Stein, Fei Li and Jay Sethuraman
Better online buffer management

Nicole Megow and Tjark Vredeveld
News on stochastic online scheduling - The preemptive case

12:00 Lunch
14:00 Regular Talks - Parallel Sessions 1

Track A (3*20 min.)

Tomáš Ebenlendr, Wojciech Jawor and Jiri Sgall
Optimal preemptive online scheduling for all speeds

Tobias Brueggemann, Johann Hurink, Tjark Vredeveld and Gerhard Woeginger
Worst-case analysis of the quality of very large-scale neighborhoods for minimizing makespan on identical machines

David Bunde
Power-aware scheduling for makespan

Track B (3*20 min.)

Matthieu Perotin, Carl Esswein and Patrick Martineau
High performance computing on commodity hardware

Gawiejnowicz Stanislaw, Kurc Wieslaw and Pankowska Lidia
Conjugate problems in time-dependent scheduling

Sergey Skinderev and Alexander Lazarev
The schemes finding of the approached decision for the problems of scheduling theory

15:00 Coffee break
15:30 Regular Talks - Parallel Sessions 2

Track A (4*20 min.)

Erhan Kozan and Robert Burdett
Effects of scheduling on railway capacity

Matthias Müller-Hannemann and Alexander Sonnikow
Non-approximability of just-in-time scheduling

Philippe Baptiste, Alexander Kononov and Maxim Sviridenko
New lower bound for the flow shop scheduling

Edmund Burke, Patrick De Causmaecker, Geert De Maere, Jeroen Mulder, Marc Paelinck and Greet Vanden Berghe
Memetic algorithms for multi-objective optimisation of robustness objectives in airline schedules

Track B (4*20 min.)

Eishi Chiba, Hiroshi Fujiwara and Toshihide Ibaraki
A new approach to approximate the collision probability in an automated production line

Ariff Md Ab Malik, Masri Ayob, Abdul Razak Hamdan, Salwani Abdullah, Graham Kendall, Edmund Burke and Rong Qu
A new model for an examination-room assignment problem

Nozha Zribi
Minimizing total tardiness in a job-shop problem under maintenance constraints

Emrah Ahi, Mine Caglar and Oznur Ozkasap
Stepwise fair-share buffering underneath bio-inspired P2P data dissemination

16:50 End of talks
18:00 Dinner

Tuesday

09:00 Invited Talk

 Martin Skutella

  Scheduling flow in networks: Recent developments in dynamic flows

10:00 Coffee break

10:30 Plenary Talks (3*30 min)

 Nicole Megow, Rolf H. Möhring and Jens Schulz

  Turnaround scheduling in chemical manufacturing

 Angel Eric, Evripidis Bampis, Fanny Pascual and Tchetgnia Alex-Ariel

  On truthfulness and approximation in scheduling

 Peter Korteweg, Alberto Marchetti-Spaccamela, Leen Stougie and Andrea Vitaletti

  Bicriteria optimization for data aggregation in sensor networks

12:00 Lunch

14:00 Regular Talks - Parallel Sessions 1

 <u>Track A (4*20 min.)</u>

 Eyjolfur Asgeirsson and Clifford Stein

  Using Markov chains to design algorithms for bounded-space on-line bin cover

 Jacob Jan Paulus and Johann Hurink

  Decomposition method for project scheduling with adjacent resources

 Kazuo Iwama and Guochuan Zhang

  On-line removable knapsack with resource augmentation

 Marton Drotos, Gabor Erdos and Tamas Kis

  A lower bound and a tabu search algorithm for scheduling batches in a proportional job shop

 <u>Track B (4*20 min.)</u>

 Maciej Machowiak, Jacek Blazewicz and Ceyda Oguz

  Bounds in a berth and quay cranes allocation problem

 Zehra Bilginturk, Ceyda Oguz and Sibel Salman

  Order acceptance and scheduling in make-to-order systems with sequence dependent setups and deadlines

 Mohammad Ranjbar and Fereydoon Kianfar

  A genetic algorithm for the resource-constrained project scheduling problem with flexible work profiles

 Florent Blachot, Guillaume Huard, Jonathan Pecero, Erik Saule and Denis Trystram

  Scheduling instructions on processors with incomplete bypass

15:20 Coffee break

15:50 Regular Talks - Parallel Sessions 2

 <u>Track A (4*20 min.)</u>

 Marjan van den Akker, Han Hoogeveen and Jules van Kempen

  Using column generation to solve parallel machine scheduling problems with minmax objective functions

 Adrien Bellanger and Ammar Oulamara

  Scheduling hybrid flowshop with parallel batching machines and task compatibilities

 Dirk Briskorn and Andreas Drexl

  Constructing fair sports leagues schedules

 Hans Kellerer and Celia A. Glass

  Algorithms for parallel machine problems with capacity restrictions

 <u>Track B (4*20 min.)</u>

 Wladyslaw Adam Janiak and Adam Janiak

  Scheduling problems with due windows assignment - a survey

 Csanad Imreh, Zoltan Blazsik, Gabor hajos and Zoltan Kovacs

  Heuristic algorithms for a complex resource allocation problem

 Cédric Pessan, Julien Morisseau, Emmanuel Néron and Jean Louis Bouquard

  A one machine scheduling problem with sequence and time dependent setup times

 Evripidis Bampis, Giorgio Lucarelli and Ioannis Milis

  On a batch scheduling problem with compatibility and cardinality constraints

17:10 End of talks

18:00 Dinner

09:00 Invited Talk
Muthu Muthukrishnan
Algorithmic issues in scheduling sponsored searches
10:00 Coffee break
10:30 Regular Talks - Parallel Sessions
Track A (3*20 min.)
Erwin Pesch
Efficient aircraft gate assignments
Steef Van de Velde and Arianna Alfieri
Minimizing total completion time in a two-machine flowshop for minimum makespan schedules
Jeff Edmonds and Kirk Pruhs
Cake cutting is and is not a piece of cake
Track B (3*20 min.)
Anna Robert and Claude Le Pape
Optimizing size of batches between production planning and scheduling to improve APS performance
Cédric Mocquillon, Christophe Lenté and Vincent T'Kindt
A heuristic for a multicriteria shampoo production problem
Mikhail Kovalyov and Maxim Barketau
"Product partition" and related scheduling problems with job deterioration
11:30 End of talks
12:00 Lunch
14:00 Social Events
18:00 Workshop Dinner

09:00 Invited Talk
Claire Kenyon
Approximation algorithms for scheduling problems
10:00 Coffee break
10:30 Plenary Talks (3*30 min)
Nadia Brauner, Gerd Finke, Vassilissa Lehoux-Lebacque, Christophe Rapine, Chris Potts and Vitaly Strusevich
Scheduling with operator non-availability periods
Jihuan Ding, Jiri Sgall and Guochuan Zhang
Online scheduling of equal-length jobs on parallel machines
Alexander Grigoriev and Marc Uetz
Scheduling parallel jobs with monotone speedup
12:00 Lunch
14:00 Regular Talks - Parallel Sessions 1
Track A (4*20 min.)
Alexey Fishkin, Rene Sitters and Prudence W.H. Wong
Bandwidth minimization algorithms
Sven Krumke and Katharina Rupp
Stochastic scheduling with application to vehicle routing
Peter Brucker and Natalia Shakhlevich
Inverse scheduling with maximum lateness objective
Nabil Absi and Safia Kedad-Sidhoum
Lagrangean heuristics for capacitated lot-sizing problem with setup times, safety stocks and shortage costs
Track B (4*20 min.)
Venkatesan Chakaravarthy, Vinayaka Pandit, Gyana Parija and Sambuddha Roy
On scheduling aspects of executing critical tasks
Nguyen Huynh Tuong, Ameur Soukhal and Jean-Charles Billaut
Uniform parallel machine scheduling problem with a common due date to minimize total weighted tardiness
Cyril Briand, Ourari Samia and Bouzouia Brahim
A new dominance condition for mono-pyramidal single machine problems
Michael Andresen, Heidemarie Bräsel, Marc Mörig, Jan Tusch, Frank Werner and Per Willenius
On mean flow time minimization for the open shop problem
15:20 Coffee break

15:50 Regular Talks - Parallel Sessions 2

<u>Track A (3*20 min.)</u>

John van den Broek, Cor Hurkens and Gerhard Woeginger
  Job shop scheduling with precedence constraints that are no-wait or blocking

Christian Artigues and Cyril Briand
  Complexity of activity insertion for resource-constrained project scheduling with minimum and maximum time lags

Christophe Rapine, Nadia Brauner, Gerd Finke and Vassilissa Lehoux-Lebacque
  Operator non-availability: The case of small periods

<u>Track B (4*20 min.)</u>

Edmund Burke, Dario Landa-Silva and Baharuddin Mohamed
  Preference nurse scheduling with squeaky wheel optimisation

Guido Diepen, Marjan van den Akker and Han Hoogeveen
  Minimizing total weighted tardiness on a single machine with release dates and equal-length jobs

Alan Soper and Vitaly Strusevich
  An approximation algorithm for the two-machine flow shop with a single transporter

Thijs Urlings, Ruben Ruiz and Funda Sivrikaya Serifoglu
  Genetic algorithms for complex hybrid flexible flow line problems

17:10 End of talks

18:00 Dinner

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Friday

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09:00 Invited Talk

Sandor Fekete
  Scheduling robot motion in an unknown environment

10:00 Coffee break

10:30 Plenary Talks (2*30 min)

Christoph Dürr and Hurand Mathilde
  Finding total unimodularity in optimization problems solved by linear programs

Mathilde Hurand, Marek Chrobak and Jiri Sgall
  Algorithms for testing fault-tolerance

11:30 end of workshop