



Conference Program

MONDAY - JUNE 6

8:15 - Registration

9:45 - 10:00 - Welcome to participants

10:00- 11:00 - Invited Talk - Chairman: G. Woeginger

<i>W. Verhaegh</i> Algorithms in Ambient Intelligence
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11:00- 11:30 - *Coffee break*

11:30- 13:00 - Morning session - Chairman: J. Sgall

<i>D. de Werra</i> Methods for assigning players to stadiums with patterns
<i>K. Pruhs, N. Bansal, T. Kimbrel</i> Speed scaling to manage energy and temperature
<i>G. Nicosia, A. Agnetis, A. Alfieri</i> Single machine scheduling problems with generalized preemption

13:00- 15:00 - *Lunch break*

15:00- 17:00 - Parallel sessions

PM - Parallel Machines - Chairman: M. Iori

<i>A. Vietri</i> Brick coloring of walls and scheduling problems
<i>T. Brueggemann, J. Hurink, W. Kern</i> Move-optimal schedules for parallel machines to minimize total weighted completion time
<i>D. Savourey, A. Jouglet</i> Dominance rules for scheduling jobs with release dates on parallel machines
<i>M. Dell'Amico, M. Iori, S. Martello, M. Monaci</i> A column generation approach for the identical parallel machine scheduling problem
<i>K. Bouibede-Hocine, V. T'kindt</i> Feasibility tests for uniform parallel machines scheduling
<i>J.R. Correa, M.R. Wagner</i> LP-Based Online Scheduling: From Single to Parallel Machines

FS - Flow Shop - Chairman: C. Oguz

<i>C. Oguz, A. Jouglet, M. Sevaux</i> Constraint programming in a memetic algorithm for hybrid flow-shop scheduling
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<i>J.C. Billaut, V.A. Strusevich, P.h. Maugiere, J.L. Bouquard</i> A single operator two-machine flow shop scheduling problem with makespan minimization
<i>G. Weiss</i> Optimal control of a fluid flowshop
<i>A. Soukhal, P. Martineau, X. Zheng</i> New results for makespan minimization on a flowshop scheduling problem with transportation constraint
<i>J. Fondrevelle, A. Oulamara, M.C. Portmann</i> Minimizing makespan in flowshop with time lags
<i>D. Chemisova, I. Chernykh, S. Sevastianov</i> On some properties of optimal schedules with preemption for flow shops and job shops

17:00-17:20 - Coffee break

17:20-18:20 - Parallel sessions

PR - Preemptive Scheduling - Chairman: A. Kovacs

<i>A.V. Fishkin, R. Sitters</i> Scheduling on identical machines subject to preemption delay
<i>P.H. Baptiste, M. Chrobak, C. Duerr, F. Sourd</i> Preemptive multi-machine scheduling of equal length jobs to minimize the average flow time
<i>A. Kovacs</i> Fast preemptive sum-multicoloring on paths

FMS - Flexible Manufacturing and Cyclic Scheduling - Chairman: N. Brauner

<i>N. Brauner, G. Finke</i> Counter-example to Agnetis' conjecture for classical robotic cells
<i>G. Pawlak, M.L. Espinouse</i> Minimize the makespan in a cyclic flexible manufacturing system with one machine
<i>A. Munier Kordon</i> Cyclic Scheduling with latencies: a generalization of the Basic Cyclic Scheduling Problem

18.30 - Guided visit to the Palazzo Pubblico

20.00 - Welcome toast on the Campo

TUESDAY - JUNE 7

9:30-10:30 - Invited Talk - Chairman: S.L. van de Velde

D. Wagner

Timetable Information in Public Transport and Shortest Paths

10:30-11:00 - Coffee break

11:00-12:30 - Morning session - Chairman: H. Kellerer

M. van Assen, S.L. van de Velde, B. Van Hezewijk

APS adoption: Some anecdotes and a structural equations model

C. Stein, F. Li, J. Sethuraman

Packet Scheduling with agreeable deadlines

J.R. Correa, A.S. Schulz

Single machine scheduling with precedence constraints

12:30 - 14:30 - Lunch break

14:30 - 16:30 - Parallel sessions

API - Scheduling Applications I - Chairman: U. Pferschy

C. Wolosewicz, S.T. Dauzere-Peres, R. Aggoune

Study of integrated model for production planning and scheduling in the supply chain

U. Pferschy, E. Schiefer

Nurse scheduling with overlapping and interrupted working shifts

M. Machowiak, T.C.E. Cheng, C. Oguz

Berth allocation as a moldable task scheduling problem

J.J.J. van den Broek, L.G. Kroon

Capacity test for shunting movements

Y. Nikulin

Multicriteria airport gate assignment and Pareto Simulated Annealing

J.A.D. Atkin, E.K. Burke, J.S. Greenwood, D. Reeson

Hybrid metaheuristics to aid runway scheduling under uncertainty at London Heathrow airport

SM - Single Machine Problems - Chairman: F. Sourd

R. Sadykov, A. Lazarev

Experimental comparison of branch-and-bound algorithms for the $1|r_j|L_{\max}$ problem

V. Gordon, J.M. Proth, V. Strusevich

Scheduling and due date assignment problems of minimizing earliness penalties under precedence constraints

<i>N. Vakhania</i> Scheduling unit-length jobs to minimize the number of late jobs on a single-machine
<i>P. Chretienne</i> On the no-wait single-machine scheduling problem
<i>F. Sourd, S. Kedad-Sidhoum</i> A new branch-and-bound algorithm for the minimization of earliness and tardiness penalties on a single machine
<i>A. Janiak</i> Single processor sequencing with job release time processing speed vs resource amount models

16:30- 17:00 - Coffee break

17:00 - 18:40 - Parallel sessions

SPI - Special Scheduling Problems I - Chairman: G. Finke

<i>E. Neron, F. Tercinet, C. Lente</i> Energetic reasoning and bin-packing problem, for bounding a parallel machine problem
<i>M. Ciavotta, P. Detti, C. Meloni, M. Pranzo</i> A metaheuristic approach to sequencing problems with setups
<i>G. Finke, V. Jost, M. Queyranne, A. Sebo</i> Batch scheduling with task compatibilities
<i>S.T. Gawiejnowicz</i> Complexity of scheduling deteriorating jobs with machine availability constraints
<i>A. Agnetis, D. Pacciarelli, A. Pacifici</i> Multi-agent single machine scheduling

MISC - Miscellaneous - Chairman: M.G. Speranza

<i>D.G. Down, G. Karakostas</i> Scheduling queuing networks with discrete capacity constraints
<i>V. Auletta, A.V. Fishkin, G. Persiano</i> On gaining control over two links occupied by selfish agents
<i>J. Pecero Sanchez, D. Trystram</i> Convex clustering algorithm for makespan minimization with large communication delays
<i>A. Iovanella, R. Onori</i> Managing production and material handling on a two stage flexible manufacturing system
<i>E. Angelelli, A.B. Nagy, M.G. Speranza, Z.S. Tuza</i> The on-line multiprocessor scheduling problem with known sum of the tasks

WEDNESDAY - JUNE 8

9:30 - 10:30 - Invited Talk - Chairman: A.S. Schulz

S. Albers

Scheduling and Planning Problems in Large Networks

10:30 - 11:00 - Coffee break

11:00 - 13:00 - Parallel sessions

APII - Scheduling Applications II - Chairman: P. Detti

S. Knust

An RCPSP-based model for scheduling a table tennis league

R. Ruiz, F.S. Serifoglu

On solving realistic scheduling problems

E. Desgrippes

Building a planning for coordinated production and distribution in a two stage supply chain

D. Goossens, A.J.T. Maas, F.C.R. Spieksma, J.J. van de Klundert

Exact Algorithms for Procurement Problems under a Total Quantity Discount Structure

G. Diepen, M. van den Akker, H. Hoogeveen, J. Smeltink

Solving the Gate Assignment Problem using Column Generation

A. Abrardo, A. Agnetis, A. Alessio, P. Detti

Radio resource allocation in multiuser OFDM telecommunications systems

AXI - Approximation Algorithms I - Chairman: F. Della Croce

N. Bansal, D. Coppersmith, M. Sviridenko

Improved approximation algorithms for broadcast scheduling

S. Chubanov, M.Y. Kovalyov, E. Pesch

A fully polynomial time approximation scheme for the capacitated economic lot-sizing problem with a monotone cost structure

T. Kis, R. Kapolnai

A 2-approximation algorithm and a truthful mechanism for scheduling batches on machines running at different speeds

H. Kellerer, V. Strusevich, M. Kubzin

An approximation scheme for certain quadratic knapsack problems

H. Kellerer, V. Strusevich, M. Kubzin

Applications of certain quadratic knapsack problems to scheduling problems

F. Della Croce, V.T. Paschos, R. Wolfler Calvo

Approximating the 2-Peripatetic Salesman Problem

13.00 - Lunch

Afternoon - Guided tour of a Contrada

20:00 - Social Dinner

THURSDAY - JUNE 9

10:00 - 11:00 - Invited Talk - Chairman: K. Pruhs

<p><i>M. Trick</i> The Practice of Sports Scheduling</p>
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11:00 - 11:30 - *Coffee break*

11:30 - 12:30 - Morning session - Chairman: V. Strusevich

<p><i>N. Megow, M. Uetz, T. Vredeveld</i> Models and Algorithms for Stochastic Online Scheduling</p>
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<p><i>Y. Bartal, S.T. Leonardi, G. Shallom, R. Sitters</i> On the Value of Preemption in Scheduling</p>

12:30 - 14:30 - *Lunch break*

14:30 - 16:30 - Parallel sessions

SPII - Special Scheduling Problems II - Chairman: N. Shakhlevich

<p><i>E. Neron, O. Bellenguez</i> Exact method for a fixed job problem</p>
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<p><i>M. Caramia, M. Drozdowski</i> Scheduling malleable tasks for mean flow time criterion</p>

<p><i>N. Shakhlevich</i> On some issues of inverse scheduling</p>

<p><i>Y. Crama, L.S. Moonen, F.C.R. Spijksma, E. Talloen</i> The toolswitching problem revisited</p>
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<p><i>P. de Causmaecker, P. Demeester, G. Vanden Berghe, B. Verbeke</i> An agent based algorithm for personnel scheduling</p>

MH - Metaheuristics - Chairman: J. Blazewicz

<p><i>S. Mukherjee, A.K. Chatterjee</i> A new type of precedence relationship for the One Machine Sequencing Problem in the Shifting Bottleneck heuristic</p>

<p><i>I. Essafi, S. Dauzere-Peres, C. Lahlou</i> Two local search approaches for minimizing total weighted tardiness in a job shop with customer orders</p>

<p><i>J. Blazewicz, E. Pesch, M. Sterna, F. Werner</i> Metaheuristic approaches for the two-machine flow shop with weighted late work criterion</p>

<p><i>C.N. Potts, J.D. Whitehead</i> Local search for a single machine coupled-operation scheduling problem</p>

<p><i>G. Confessore, S. Giordani, S. Rismondo</i> A Tabu Search approach for no-wait job-shop scheduling with alternative routes</p>
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16:30- 17:00 - Coffee break

17:00 - 18:20 - Parallel sessions

OL - Online Scheduling - Chairman: M.H. Goldwasser

<i>C. Imreh</i> On the generalized models of on-line scheduling with machine cost
<i>A. Bagchi, M.H. Goldwasser</i> The effect of patience and restarts for the online scheduling of equal-length jobs
<i>J. Sgall</i> Online algorithms for scheduling unit jobs
<i>J. Boyar, L.M. Favrholt</i> Scheduling processors on the grid

TI - Theoretical Issues - Chairman: V. T'kindt

<i>H. Braesel, M. Moerig</i> H-Comparabilitygraphs and Irreducible Sequences
<i>V. T'kindt, K. Bouibed-Hocine, C. Esswein</i> Some considerations on the complexity of multicriteria scheduling problems
<i>J. Damay, A. Quilliot, E. Sanlaville</i> Management of valid antichain sequences as RCPSP solutions
<i>A. Gharbi, M. Haouari</i> A new bounding procedure for the bin packing problem

**After dinner - Tasting event: "Siena ed i suoi vini"
(not included in the registration fee)**

FRIDAY - JUNE 10

9.30: 10:30 - Parallel sessions

GPS - Graphs and Multiprocessor Systems - Chairman: W. Kubiak

N.P. Rachaniotis, C.P. Pappis, R. Tadei

Scheduling in a multi-processor environment with deteriorating job processing times and decreasing values

P. Dell'Olmo, A. Iovanella, G. Lulli, B. Scoppola

Scheduling multiprocessor tasks under different cost functions

W. Kubiak, C. Potts, D. Rebaine

Scheduling divide-and-conquer graphs on identical parallel machines in linear time

AXII - Approximation Algorithms II - Chairman: F.C.R. Spieksma

I. Chernykh, n. Dryuck, A. Kononov, S. Sevastianov

An approximation algorithm for the routing open shop problem

A. Kovacs

Fast monotone 3-approximation algorithm for scheduling related machines

L. Moonen, F.C.R. Spieksma

A 2-approximation algorithm for partitioning a weighted partial order

10:30 - 11:00 - Coffee break

11:00 - 12:00 - Invited Talk - Chairman: G. Woeginger

C. Papadimitriou

The Price of Anarchy

12:00 Conclusions