

9th Combinatorial Optimization Workshop



2005

Monday, 14 March

08:30–08:45 *Michael Jünger, Gerhard Reinelt, Giovanni Rinaldi*
Welcome

Chair: *Giovanni Rinaldi*

08:45–09:15 *Maurice Queyranne*
Towards robust revenue management

09:15–09:45 *Volker Kaibel*
Two new bounds on the random-edge simplex algorithm

09:45–10:15 *Christoph Helmberg*
Online truck scheduling for inventory management

COFFEE BREAK

Chair: *Michael Jünger*

10:45–11:15 *Yves Pochet and Kent Andersen*
Improving the formulation of a mixed integer program

11:15–11:45 *Marc Uetz*
Scheduling with resource dependent processing times

11:45–12:15 *Carsten Gutwenger*
Graph embedding with minimum depth and maximum external face

LUNCH/SKI BREAK

Chair: *Gerhard Reinelt*

17:30–18:00 *Vincent Jost*
Chromatic scheduling: New results and problems

18:00–18:30 *Annegret Wagler*
About the imperfection ratio of A-perfect graphs and some consequences

18:30–19:00 *Angelika Wiegele*
A boundary point method for semidefinite programs

19:00–19:30 *Quentin Louveaux*
Polyhedral properties of the intersection of two knapsacks

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Tuesday, 15 March

Chair: *Uwe Zimmermann*

- 08:30–09:00** *Rüdiger Schultz*
Formulating and solving multistage stochastic integer programs with risk objectives
- 09:00–09:30** *Isaac Plana*
On the windy general routing problem
- 09:30–10:00** *Ekkehard Köhler*
Dynamic routing of AGVs

COFFEE BREAK

Chair: *Bruce Shepherd*

- 10:30–11:00** *Maria Chudnovsky*
Quasi line graphs & Ben Rebea's conjecture
- 11:00–11:30** *Gautier Stauffer*
The stable set polytope of quasi-line graphs
- 11:30–12:00** *Kathie Cameron*
Independent packings in structured graphs

LUNCH/SKI BREAK

Chair: *Andrea Lodi*

- 17:30–18:00** *Pierre Fouilhoux*
The maximum bipartite induced subgraph problem and DNA sequencing
- 18:00–18:30** *Christoph Buchheim*
Efficient reduction of polynomial zero-one optimization to the quadratic case
- 18:30–19:00** *Alberto Caprara*
The basic approach to 0/1 quadratic programming
- 19:00–19:30** *Jon Lee*
In situ column generation for a cutting-stock problem

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Wednesday, 16 March

Chair: *Matteo Fischetti*

08:30–09:00 *Egon Balas*

The vertex separator problem

09:00–09:30 *Anureet Saxena*

Facets of the set-covering polytope with coefficients in $\{0, 1, 2, 3\}$

09:30–10:00 *Fabrizio Grandoni*

Improved virtual private network design approximation

COFFEE BREAK

Chair: *Yves Pochet*

10:30–11:00 *Juan-José Salazar-González*

Comparing formulations of the capacitated vehicle routing problem

11:00–11:30 *Dirk Oliver Theis*

Not every GTSP facet induces an STSP facet

11:30–12:00 *Pierre Pesneau*

Solving the precedence constrained ATSP with an extended formulation

LUNCH/SKI BREAK

Chair: *Jean François Maurras*

17:30–18:00 *Nitin Ahuja*

Modelling and solving a min-max problem as a graph coloring problem

18:00–18:30 *Pierre Charbit*

Cyclic orders: equivalence and duality

18:30–19:00 *Matthias Köppe*

Towards primal-dual integer programming

19:00–19:30 *Alexander Kröller*

Algorithmic aspects of large sensor networks

19:30–19:45 *Sándor Fekete*

Searching with an autonomous robot

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Thursday, 17 March

Chair: *Egon Balas*

- 08:30–09:00** *Bruce Shepherd*
Integrality gaps for throughput flow
- 09:00–09:30** *Uwe Zimmermann*
Minimum partitions of permutations
- 09:30–10:00** *David Steurer*
An asymptotic approximation scheme for multigraph edge coloring

COFFEE BREAK

Chair: *Paolo Toth*

- 10:30–11:00** *Hal Sudborough*
A two approximation algorithm for block sorting
- 11:00–11:30** *Denis Cornaz*
A simple and tractable formulation for the node coloring problem
- 11:30–12:00** *Elisabeth Gassner*
A linear time algorithm for the reverse 1-median problem on a cycle

LUNCH/SKI BREAK

Chair: *Rainer Burkard*

- 17:30–18:00** *Matteo Fischetti*
Mixed-integer cuts from cyclic groups
- 18:00–18:30** *Johannes Hatzl*
Mixed-integer programs and heuristics for batch processes
- 18:30–19:00** *Mathieu Van Vyve*
The continuous mixing polyhedron
- 19:00–19:30** *Andrea Lodi*
Optimizing over the first Chvátal closure

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Friday, 18 March

Chair: *Rolf Möhring*

08:30–09:00 *Bill Cunningham*

An algorithm for packing A-paths in a group-labelled graph

09:00–09:30 *Miguel Anjos*

A semidefinite approach to the single-row layout problem with unequal dimensions

09:30–10:00 *Paolo Ventura*

Mod-2 cuts generation yields the convex hull of bounded integer feasible sets

COFFEE BREAK

Chair: *Denis Naddef*

10:30–11:00 *Claude Lemaréchal*

A convex analysis perspective of (disjunctive) cuts

11:00–11:30 *Edoardo Amaldi*

Designing virtual private networks under traffic uncertainty

11:30–12:00 *Matthias Müller-Hannemann*

Throughput maximization in PC board assembly