Schedule of the Scientific Program

Overview

Monday 17 March	Room M1	Room M2	Room A2
9:30–11:00	Network Optimization 1	Sequencing & Scheduling 1	Vehicle Routing Problems
11:00–11:30		Coffee break	
11:30–12:30		Plenary Rolf Möhring (Room M1)	
12:30–14:00		Lunch break	
14:00–15:30	Network Optimization 2	Algorithms & Heurisitics 1	Supply Chain Optimization & Location Analysis
15:30–16:00		Tea break	
16:00–17:00	Travelling Salesman Problems	Graphs & Networks 1	Combinatorial Theory
17:00–18:00		ILOG workshop (Room M1)	

Tuesday 18 March	Room M1	Room M2	Room A2
9:00–11:00	Network Optimization 3	Sequencing & Scheduling 2	Graphs & Networks 2
11:00–11:30		Coffee break	
11:30–12:30		Plenary Moshe Dror (Room M1)	
12:30–14:00		Lunch break	
14:00–16:00	Cutting Planes & Column Generation	Algorithms & Heurisitics 2	Graphs & Networks 3
16:00–16:30		Tea break	

Wednesday 19 March	Room M1	Room M2	Room A2
9:00–11:00	Real-life Applications	Algorithms & Heurisitics 3	Assignment Problems
11:00–11:30		Coffee break	
11:30–12:30		Plenary Adam N. Letchford (Room M1)	
12:30–14:00		Lunch break	
14:00		End of CO 2008	

Monday 17 March 2008

Session M1: 9:30–11:00

Parallel session M1–A (Room M1)

Session title: Network Optimization 1
Session chair: Arie Koster

9:30–10:00	Paula Carroll: *Polyhedral Investigation of the Ring Spur Assignment Problem*
10:00–10:30	Rosa Figueiredo: *A Tabu Search approach to solve the mixed integer bilevel formulation of a network design problem*
10:30–11:00	Cristiana Gomes: *A Branch-and-Price Approach to the Bandwidth Allocation Problem in Wireless Networks*

Parallel session M1–B (Room M2)

Session title: Sequencing & Scheduling 1
Session chair: Marc Reimann

9:30–10:00	Imed Kacem: *2-approximation algorithm for the weighted completion time minimization on a single machine with a fixed non-availability interval*
10:00–10:30	Celia A. Glass: *Scheduling on parallel machines, with perishability time windows, inspired by the process of micro-biological food testing*
10:30–11:00	Marta Flamini: *A branch and bound algorithm for a generalized Job Shop Scheduling problem*

Parallel session M1–C (Room A2)

Session title: Vehicle Routing Problems
Session chair: Vladimir Deineko

9:30–10:00	Ulrich Pferschy: *A Balanced Vehicle Routing Problem*
10:00–10:30	Qianxin Mu: *Disruption Management in Vehicle Routing and Scheduling*
10:30–11:00	Nik Pearson: *Good Triangulations Yield Good Tours*

Session M2 – Invited plenary presentation (Room M1)

Invited speaker: Rolf Möhring (Technische Universität Berlin, Germany)
Session chair: Chris N. Potts

11:30–12:30	*Routing in Graphs with Applications in Traffic and Logistics*

Session M3: 14:00–15:30

Parallel session M3–A (Room M1)

Session title: Network Optimization 2
Session chair: Sebastian Orlowski

14:00–14:30	Michael Poss: *Constraints generation for solving a bilayer network design problem*
14:30–15:00	Christian Raack: *The cut-set polytope for two-layer network design problems*
15:00–15:30	Sebastian Orlowski: *Branch-and-cut techniques for solving realistic two-layer network design problems*

Parallel session M3–B (Room M2)

Session title: Algorithms & Heuristics 1
Session chair: Thomas Erlebach

14:00–14:30	Wanpracha Chaovalitwongse: *Approximating Several Covering/Packing Problems*
14:30–15:00	Benny Vaksendiser: *Algorithms for Storage Allocation Based on Client Preferences*
15:00–15:30	Thomas Erlebach: *Approximating Geometric Coverage Problems*

Parallel session M3–C (Room A2)

Session title: Supply Chain Optimization & Location Analysis
Session chair: Maria A. Osorio

14:00–14:30	Maria Paola Scaparra: *A multi-level optimization model for improving the robustness of capacitated service and supply systems*
14:30–15:00	Oğuz Solyalı: *Strong formulations for the one-warehouse multi-retailer problem*
15:00–15:30	Maria A. Osorio: *On the use of Surrogate Constraint Analysis to fix binary variables in the CFLP*

Session M4 1600–18:00

Parallel session M4–A (Room M1)

Session title: Travelling Salesman Problems / ILOG Workshop
Session chair: Edward Gimadi

16:00–16:30	Petrică C. Pop: *A Strong Integer Programming Formulation of the Generalized Travelling Salesman Problem*
16:30–17:00	Edward Gimadi: *On asymptotic optimality of polynomial algorithm for multi-TSP in Euclidean space*
17:00–18:00	**ILOG CPLEX 11 workshop**

Parallel session M4–B (Room M2)

Session title: Graphs & Networks 1
Session chair: Eric McDermid

16:00–16:30	Péter Biró: *Integral stable allocation problem on graphs*
16:30–17:00	Eric McDermid: *Keeping partners together: Algorithmic results for the Hospitals / Residents problem with couples*
17:00–18:00	*See session M4–A*

Parallel session M4–C (Room A2)

Session title: Combinatorial Theory
Session chair: Oliver Jenkinson

16:00–16:30	Fredrik Kuivinen: *Submodular functions on diamonds*
16:30–17:00	Oliver Jenkinson: *Balanced words and majorization*
17:00–18:00	*See session M4–A*

Tuesday 18 March 2008

Session T1: 9:00–11:00

Parallel session T1–A (Room M1)

Session title: Network Optimization 3
Session chair: Petrică Pop

9:00–9:30	Teresa Gomes: *An effective algorithm for obtaining the set of all minimal cost pairs of disjoint paths with dual arc costs*
9:30–10:00	Lucile Denœud: *A Graph-Partitioning-Based-Heuristic for Optical Network Planning Problems*
10:00–10:30	Nicolas Sonnerat: *Galaxy Cutsets in Graphs*
10:30–11:00	Petrică C. Pop: *On The Generalized Minimum Spanning Tree Problem*

Parallel session T1–B (Room M2)

Session title: Sequencing & Scheduling 2
Session chair: Bo Chen

9:00–9:30	Ivan Rykov: *Asymptotically exact approach to solving RCPSP with one resource type*
9:30–10:00	Vitaly Strusevich: *Solving Make-or-Buy Trade-off Problems by Submodular Optimization*
10:00–10:30	Roberto Rossi: *Scheduling Internal Audit Activities: A Stochastic Combinatorial Optimization Problem*
10:30–11:00	Chris N. Potts: *Online Scheduling with Known Arrival Times*

Parallel session T1–C (Room A2)

Session title: Graphs & Networks 2
Session chair: Vadim Lozin

9:00–9:30	Bert Marchal: *A local search algorithm for determining tree decompositions of graphs*
9:30–10:00	Synara Brito: *Forest-clique partitions of cographs*
10:00–10:30	Jakub Mareček: *Zykov Revisited: Engineering an Exact Solver for Graph Colouring*
10:30–11:00	Vadim Lozin: *Stability Preserving Transformations of Graphs*

Session T2 – Invited plenary presentation (Room M1)

Invited speaker: Moshe Dror (University of Arizona, USA)
Session chair: Richard Eglese

11:30–12:30	*Another Look at Euclidean TSP and Packing: "This" Almost Never Happens*

Session T3: 14:00–16:00

Parallel session T3–A (Room M1)

Session title: Cutting Planes & Column Generation
Session chair: Socorro Rangel

14:00–14:30	Manuel Kutschka: *Seperation of $\{0, \frac{1}{2}\}$-Chvátal-Gomory cuts in general integer programs*
14:30–15:00	Konstantinos Kaparis: *Separation Algorithms for 0-1 Knapsack Polytopes*
15:00–15:30	Stefan Ropke: *Computer aided discovery of families of valid inequalities*
15:30–16:00	Socorro Rangel: *Special cutting patterns and reduction of saw machine set ups in the cutting stock problem*

Parallel session T3–B (Room M2)

Session title: Algorithms & Heuristics 2
Session chair: Daniele Catanzaro

10:30–11:00	Tuan-Vu Tran: *Global Constrained Optimization of a Safety Transformer using Branch-and-Bound method*
14:30–15:00	Dmitriy Drusvyatskiy: *Scheduling Tasks on Parallel Machines with Network-Based Restrictions*
15:00–15:30	Shinji Imahori: *Improved best-fit heuristics for rectangular strip packing and bin packing problems*
15:30–16:00	Daniele Catanzaro: *Estimating phylogenies under maximum likelihood: A very large-scale neighborhood approach*

Parallel session T3–C (Room A2)

Session title: Graphs & Networks 3
Session chair: Paula Zabala

14:00–14:30	Marcin Kamiński: *Quadratic programming on graphs without long odd cycles*
14:30–15:00	Géraldine Heilporn: *On a Network Pricing Problem with Connected Toll Arcs*
15:00–15:30	Jakub Mareček: *Where is the Symmetry in Vertex Colouring?*
15:30–16:00	Paula Zabala: *The* $(k, k-1)-$coloring *problem*

Wednesday 19 March 2008

Session W1: 9:00–11:00

Parallel session W1–A (Room M1)

Session title: Real-life Applications
Session chair: André Gustavo dos Santos

9:00–9:30	Janny Leung: *Timetable Syncronisation for Rail Mass Transit*
9:30–10:00	Laura Galli: *Solution of the Train Platforming Problem*
10:00–10:30	Mara Servilio: *Large-scale Call Center Agents Scheduling*
10:30–11:00	André Gustavo dos Santos: *Airline Crew Scheduling: A hybrid approach using metaheuristics to improve an exact column generation algorithm*

Parallel session W1–B (Room M2)

Session title: Algorithms & Heuristics 3
Session chair: Dolores Romero Morales

9:00–9:30	Haris Aziz: *Computing voting power in easy weighted voting games*
9:30–10:00	Sofie Coene: *Profit-based Latency Problems on the Line*
10:00–10:30	Olivier Hudry: *Complexity of the computation of a linear order at minimum distance from a tournament*
10:30–11:00	Dolores Romero Morales: *Discretizing Variables for Support Vector Machines by Means of Purity Measures*

Parallel session W1–C (Room A2)

Session title: Assignment Problems
Session chair: Frits Spieksma

9:00–9:30	Socorro Rangel: *A modified Lagrangian bound for a class of many-to-many assignment problems*
9:30–10:00	Laura Bahiense: *Ship accommodations layout problem as a k-constraints quadratic assignment problem*
10:00–10:30	Yury Glazkov: *Asymptotically optimal algorithms for m-layer planar 3-dimensional assignment problem*
10:30–11:00	Frits Spieksma: *Multi-Index Assignment Problems: Applications and Approximation*

Session W2 – Invited plenary presentation (Room M1)

Invited speaker: Adam N. Letchford (Lancaster University, UK)

Session chair: Vitaly Strusevich

11:30–12:30	*The Maximum Cut and Maximum Clique Problems: Linear versus Semidefinite Programming*