

Models and Algorithms for Optimization in Logistics

Program Monday, June 22, 2009

- 9:00 **Welcome and Introduction**
- 9:20 **George Nemhauser** (Georgia Institute of Technology):
A Maritime Inventory Routing Problem
- 10:05 **Coffee Break**
- 10:20 **Jens Baudach** (TU Dortmund) &
Ronny Hansmann (TU Braunschweig):
Crew Scheduling and Route Planning in Waste Disposal Logistics
- 11:10 **Coffee Break**
- 11:25 **Christoph Helmberg** (TU Chemnitz):
Networks Models with Convex Structure Like Bundle Methods
- 11:55 **Felix König** (TU Berlin):
Coil Coating with Shuttles and Problems in Multi-Interval Graphs
- 12:30 **Lunch**
- 15:00 **Coffee & Cake**
- 16:00 **Bernard Gendron** (Université de Montréal):
Formulations, Bounds, and Heuristic Methods for a
Two-Level Adaptive Location Distribution Problem
- 16:30 **Leena Suhl** (Uni Paderborn):
Increasing Stability of Crew Schedules in Airlines and Public Transit
- 17:00 **Stefan Irnich** (RWTH Aachen):
New Models and Methods for Arc Routing
- 17:30 **Dennis Huisman** (Erasmus Uni Rotterdam):
The New Dutch Timetable: The OR Revolution
- 18:00 **Dinner**

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Program Tuesday, June 23, 2009

- 9:00 **Organizational Remarks**
- 9:10 **Annette Chmielewski** (TU Dortmund) &
Boris Naujoks (Log!n GmbH, Schwelm):
Door Assignment in Freight Forwarding Terminals
- 10:00 **Josef Kallrath** (BASF AG, Ludwigshafen):
Views and Aspects of Mathematical Optimization in
Logistics of Chemical Processing
- 10:30 **Coffee Break**
- 11:00 **Melda Örmeci Matoğlu** (Özyeğin University, Istanbul):
Drift Control with Changeover Cost at Dell
- 11:40 **Özlem Ergun** (Georgia Institute of Technology):
Humanitarian Logistics - An Overview
- 12:20 **Lunch**
- 15:00 **Coffee & Cake**
- 16:00 **Bert Beisiegel** (B² Software-Technik GmbH, Mülheim an der Ruhr):
On Optimization Systems Used Day-by-Day in Manufacturing Plants
- 16:30 **Ulrich Lauther** (Siemens AG, München):
A Fast Tool for UMTS Site Rollout
- 16:50 **Hanno Schülldorf** (DB Mobility Logistics AG, Frankfurt):
Mathematical Optimization at Deutsche Bahn
- 17:20 **Christoph Hemptsch** (DHL, Bonn):
Optimization of Mail Collection Networks
- 18:00 **Dinner**

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Program Wednesday, June 24, 2009

- 9:00 **Organizational Remarks**
- 9:10 **Alexander Martin** (TU Darmstadt):
If You Have a Hammer, Everything Is a Nail -
Some Case Studies in Logistics
- 9:55 **Benjamin Hiller** (Konrad-Zuse-Zentrum Berlin):
Reoptimization Algorithms for Passenger Elevators
- 10:30 **Coffee Break**
- 11:00 **Marika Neumann** (Konrad-Zuse-Zentrum Berlin):
Line Planning and Connectivity
- 11:35 **Jörg Rambau** (Universität Bayreuth):
The Combinatorics of (S, M, L, XL) or
the Best Fitting Delivery of T-Shirts
- 12:15 **Lunch**
- 13:30 **Hike**
- 18:00 **Dinner**
- 19:00 **Departure for Wine Tasting**

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Program Thursday, June 25, 2009

- 9:00 **Organizational Remarks**
- 9:05 **Nelson A. Uhan** (Purdue University, West Lafayette):
Sharing Supermodular Cost
- 9:40 **Armin Fügenschuh** (Konrad-Zuse-Zentrum Berlin):
Routing Cars in Rail Freight Service
- 10:15 **Coffee Break**
- 10:30 **Wilhelm Dangelmayer** (Uni Paderborn):
Production Planning and Control with Discrete Lotsizing and a
Rolling Horizon
- 11:05 **Louis-Martin Rousseau** (École Polytechnique Montréal):
Grammar-Based Integer Programming Models for
Multi-Activity Shift Scheduling
- 11:40 **José Verschae** (TU Berlin):
A Robust PTAS for the Parallel Machine Covering Problem
- 12:15 **Lunch**
- 13:15 **Group Photo**
- 15:00 **Coffee & Cake**
- 16:00 **Cynthia Barnhart** (MIT, Cambridge):
Trends in Airline Optimization
- 16:45 **Peter Buchholz** (TU Dortmund):
Optimization of Stochastic Simulation
- 17:15 **Kati Brauer** (4Flow AG, Berlin):
Standard Software for Planning in Logistics
- 18:00 **Dinner**

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Program Friday, June 26, 2009

- 9:00 **Organizational Remarks**
- 9:05 **Patrick Jaillet** (MIT, Cambridge):
Online Travelling Salesman Problem with Flexibility
- 9:40 **Sascha Wohlgemuth** (TU Dortmund):
Traffic Information and Dynamic Vehicle Routing
in Forwarding Agencies
- 10:15 **Coffee Break**
- 10:45 **Anton Kleywegt** (Georgia Institute of Technology):
A Network Design Problem
- 11:20 **Jakob Puchinger** (Austrian Institute of Technology, Wien):
Branch-and-Price Solving in G12
- 11:55 **Closing Discussion**
- 12:15 **Lunch**