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
# Program Tuesday, June 23, 2009

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

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


11:55  Closing Discussion

12:15  Lunch