Contents

Computing an Upper Bound for the Longest Edge in an Optimal TSP-Solution ........................................ 1
Hans Achatz and Peter Kleinschmidt

Electricity Storage Systems and Their Allocation in the German Power System ........................................ 7
Sonja Babrowski, Patrick Jochem and Wolf Fichtner

Misspecified Dependency Modelling: What Does It Mean for Risk Measurement? ................................... 15
Theo Berger

Primal MINLP Heuristics in a Nutshell .......................... 23
Timo Berthold

Layout Optimisation of Decentralised Energy Systems Under Uncertainty ................................................. 29
Valentin Bertsch, Hannes Schwarz and Wolf Fichtner

Analysis of Micro–Macro Transformations of Railway Networks ......................................................... 37
Marco Blanco and Thomas Schlechte

A Human Resource Model for Performance Optimization to Gain Competitive Advantage ...................... 43
Joachim Block and Stefan Pickl

Re-Optimization of Rolling Stock Rotations .................. 49
Ralf Borndörfer, Julika Mehrgardt, Markus Reuther, Thomas Schlechte and Kerstin Waas

Branch-and-Price on the Split Delivery Vehicle Routing Problem with Time Windows and Alternative Delivery Periods ...................... 57
Heiko Breier and Timo Gossler
Welfare Maximization of Autarkic Hybrid Energy Systems ........ 67
Katja Breitmoser, Björn Geißler and Alexander Martin

Determining Optimal Discount Policies for a Supplier in B2B Relationships ........................................... 75
Viktoria Buhayenko and Erik van Eikenhorst

Exact and Compact Formulation of the Fixed-Destination Travelling Salesman Problem by Cycle Imposement Through Node Currents ............................................................... 83
Mernout Burger

0–1 Multiband Robust Optimization ........................................ 89
Christina Büsing, Fabio D’Andreagiovanni and Annie Raymond

A Branch-and-Price Approach for a Ship Routing Problem with Multiple Products and Inventory Constraints ................. 97
Rutger de Mare, Remy Spliet and Dennis Huisman

Data Driven Ambulance Optimization Considering Dynamic and Economic Aspects .................................................. 105
Dirk Degel, Lara Wiesche and Brigitte Werners

Risk-Adjusted On-line Portfolio Selection ........................................ 113
Robert Dochow, Esther Mohr and Günter Schmidt

Quantified Combinatorial Optimization ........................................ 121
Thorsten Ederer, Ulf Lorenz and Thomas Opfer

On the Modeling of Recharging Stops in Context of Vehicle Routing Problems .................................................. 129
Stefan Frank, Henning Preis and Karl Nachtigall

Demand Fulfillment in an Assemble-to-Order Production System ... 137
Sebastian Geier and Bernhard Fleischmann

Integrating Keyword Advertising and Dynamic Pricing for an Online Market Place .................................................. 145
Thomas Goertz, Jella Pfeiffer, Henning Schmidt and Franz Rothlauf

Characterizing Relatively Minimal Elements via Linear Scalarization .................................................. 153
Sorin-Mihai Grad and Emilia-Loredana Pop
An MBLP Model for Scheduling Assessment Centers
Joëlle Grüter, Norbert Trautmann and Adrian Zimmermann

DEA Modeling for Efficiency Optimization of Indian Banks with Negative Data Sets
Pankaj Kumar Gupta and Seema Garg

The Inventory Management of Fresh Vegetables Using Inventory Balance and Across of Its Supply Chain
Adi Djoko Guritno, Henry Yuliando and Endy Suwondo

Moving Bins from Conveyor Belts onto Pallets Using FIFO Queues
Frank Gurski, Jochen Rethmann and Egon Wanke

A Generalization of Odd Set Inequalities for the Set Packing Problem
Olga Heismann and Ralf Borndörfer

New Lower Bounds for the Three-Dimensional Strip Packing Problem
Kirsten Hoffmann

A New Method for Parameter Estimation of the GNL Model Using Real-Coded GA
Yasuhiro Iida, Kei Takahashi and Takahiro Ohno

Inventory Control with Supply Backordering
Marko Jakšić

Sequencing Problems with Uncertain Parameters and the OWA Criterion
Adam Kasperski and Paweł Zieliński

Application of Scheduling Theory to the Bus Evacuation Problem
Corinna Kaufmann

Modelling Delay Propagation in Railway Networks
Fabian Kirchhoff

Sensitivity Analysis of BCC Efficiency in DEA with Application to European Health Services
Andreas Kleine, Andreas Dellnitz and Wilhelm Rödder
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Competition for Resources</td>
<td>249</td>
</tr>
<tr>
<td>Max Klimm</td>
<td></td>
</tr>
<tr>
<td>Measurement of Risk for Wind Energy Projects: A Critical Analysis of Full Load Hours</td>
<td>255</td>
</tr>
<tr>
<td>André Koukal, Stefan Lange and Michael H. Breitner</td>
<td></td>
</tr>
<tr>
<td>An Integer Programming Approach to the Hospitals/Residents Problem with Ties</td>
<td>263</td>
</tr>
<tr>
<td>Augustine Kwanashie and David F. Manlove</td>
<td></td>
</tr>
<tr>
<td>Learning in Highly Polarized Conflicts</td>
<td>271</td>
</tr>
<tr>
<td>Sigifredo Laengle and Gino Loyola</td>
<td></td>
</tr>
<tr>
<td>Marginal Cost of Capacity for the Case of Overlapping Capacity Investments</td>
<td>279</td>
</tr>
<tr>
<td>Christian Lohmann</td>
<td></td>
</tr>
<tr>
<td>Supply Chain Coordination Under Demand Uncertainty: Analysis of General Continuous Quantity Discounts</td>
<td>287</td>
</tr>
<tr>
<td>Hamid Mashreghi and Mohammad Reza Amin-Naseri</td>
<td></td>
</tr>
<tr>
<td>An Integer Programming Model for the Hospitals/Residents Problem with Couples</td>
<td>293</td>
</tr>
<tr>
<td>Iain McBride and David F. Manlove</td>
<td></td>
</tr>
<tr>
<td>Techno-economic Analysis and Evaluation of Recycling Measures for Iron and Steel Slags</td>
<td>301</td>
</tr>
<tr>
<td>Christoph Meyer, Matthias G. Wichmann and Thomas S. Spengler</td>
<td></td>
</tr>
<tr>
<td>Dynamical Supply Networks for Crisis and Disaster Relief: Networks Resilience and Decision Support in Uncertain Environments</td>
<td>309</td>
</tr>
<tr>
<td>Silja Meyer-Nieberg, Erik Kropat and Patrick Dolan Weber</td>
<td></td>
</tr>
<tr>
<td>A Column Generation Approach to Home Care Staff Routing and Scheduling</td>
<td>317</td>
</tr>
<tr>
<td>Susumu Morito, Daiki Kishimoto, Hiroki Hayashi, Atsushi Torigoe, Shigeo Okamoto, Yuki Matsukawa and Nao Taniguchi</td>
<td></td>
</tr>
<tr>
<td>A Dynamic Customer-Centric Pricing Approach for the Product Line Pricing Problem</td>
<td>325</td>
</tr>
<tr>
<td>Michael Neugebauer</td>
<td></td>
</tr>
</tbody>
</table>
Influence of Fluctuating Electricity Prices due to Renewable Energies on Heat Storage Investments ........................................... 421
Katrin Schulz, Matthias Schacht and Brigitte Werners

The Effects of Customer Misclassification on Cross-Training in Call Centers .............................................................. 429
Andreas Schwab and Burak Büke

Inventory Management with Transshipments Under Fill Rate Constraints ................................................................. 437
Andreas Serin and Bernd Hillebrand

Solution Method for the Inventory Distribution Problem ............... 443
Takayuki Shiina

Application of Sampling Plan Methods: Case of Indonesian Sugar Company ............................................................. 451
Endy Suwondo, Henry Yuliando and Adi Djoko Guritno

Transportation Costs and Carbon Emissions in a Vendor Managed Inventory Situation ............................................. 459
Marcel Turkensteen and Christian Larsen

Fuel Consumption Costs of Routing Uncertainty ......................... 465
Stephan Unger and William Cheung

Optimization of Sales and Operations Planning at Shell Chemicals Europe ................................................................. 473
Thijs van Dongen and Dave van den Hurck

Time-Dependent Dynamic Location and Relocation of Ambulances ................................................................. 481
Lara Wiesche

Inventory Replenishment Models with Advance Demand Information for Agricultural Online Retailers ....................... 487
Haoxuan Xu, Yeming Gong, Chengbin Chu and Jinlong Zhang

Coordinating a Three-Echelon Telecom Supply Chain with Spanning and Pair-Wise Revenue Sharing Contracts .......... 495
Azarm Yeganehfallah, Hamid Mashregh and Mohammad Reza Amin-Naseri
The Material Loss and Failure Process in Sugar Production in Indonesia: A Case ............................. 503
Henry Yuliando, Adi Djoko Guritno and Endy Suwondo

Author Index ......................................................... 511
Operations Research Proceedings 2013
Selected Papers of the International Conference on
Operations Research, OR2013, organized by the German
Operations Research Society (GOR), the Dutch Society of
Operations Research (NGB) and Erasmus University
Rotterdam, September 3–6, 2013
Huisman, D.; Louwerse, I.; Wagelmans, A.P.M. (Eds.)
2014, XIII, 513 p. 100 illus., Softcover
ISBN: 978-3-319-07000-1