Contents

GOR Awards

Assessing Capacity Improvements by Relaying in Cellular Networks  
H.-F. Geerdes  

Performance Analysis of M-designed Inbound Call Centers  
R. Stolletz  

Revenue Management

Revenue Management in Manufacturing  
F. Defregger, H. Kuhn  

Network Revenue Management: Some Issues on Upper and Lower Bounds  
M. Müller-Bungart  

Telecommunication and Information Technology

Optimisation Methods for UMTS Radio Network Planning  

Production, Logistics and Supply Chain Management

Distribution Planning Problem: A Survey  
B. Bilgen, I. Ozkarahan  

Artikelanordnungsmuster bei  
Mann-zur-Ware-Kommissionierung  
K. Dörner, M. Reeh, C. Strauss, G. Wäscher  

The Impact of the Exchange of Market and Stock Information on the Bullwhip Effect in Supply Chains  
B. Faifst, D. Arnold, K. Furmans
Analyzing the Bullwhip Effect of Installation-Stock and Echelon-Stock Policies with Linear Control Theory
K. Hoberg, U.W. Thonemann, J.R. Bradley

Policy Approximation for the Production Inventory Problem with Stochastic Demand, Stochastic Yield and Production Leadtime
K. Inderfurth, C. Gotzel

A Dynamic Model for Choosing the Optimal Technology in the Context of Reverse Logistics
R. Kleber

Deriving Inventory-Control Policies for Periodic Review with Genetic Programming
P. Kleinau, U.W. Thonemann

Dynamic Multi-Commodity Facility Location: A Mathematical Modeling Framework for Strategic Supply Chain Planning
M.T. Melo, S. Nickel, F. Saldanha da Gama

Leistungsabstimmung von Produktionslinien in der Elektronikmontage
M. Schleusener, H.-O. Günther

A Priority-Rule Based Method for Batch Production Scheduling in the Process Industries
C. Schwindt, N. Trautmann

Services, Transportation and Traffic

A Metaheuristic Approach for Hazardous Materials Transportation
P. Carotenuoto, G. Galiano, S. Giordani

Personal- und Fahrzeugeinsatzplanung in der Müllentsorgung
J.R. Daduna

Modelling of Complex Costs and Rules in a Crew Pairing Column Generator
R. Galia, C. Hjorring
Convexification of the Traffic Equilibrium Problem with Social Marginal Cost Tolls
P. O. Lindberg, L. Engelson

Vermittlung von Fahrgemeinschaften betrachtet als Vehicle Routing Problem
G. Reents

Scheduling and Project Management

Single Machine Scheduling with Precedence Constraints and SLK Due Date Assignment
V. Gordon, J.-M. Proth, V. Strusevich

A Parallel Approach to the Pricing Step in Crew Scheduling Problems
T.V. Hoai, G. Reinelt, H.G. Bock

Scheduling Regular and Temporary Employees with Qualifications in a Casino
C. Stark, J. Zimmermann

Marketing and Data Analysis

Web Robot Detection - the Influence of Robots on Web Mining
C. Bomhardt, W. Gaul

Visualizing Recommender System Results via Multidimensional Scaling
W. Gaul, P. Thoma, L. Schmidt-Thieme, S. van den Bergh

Die Modellierung von Präferenzveränderungen mittels Scanner Panel Daten
L. Hildebrandt, L. Michaelis

Measurement of Online Visibility
N. Schmidt-Mänz, W. Gaul

Determinants and Behavioral Consequences of Customer Loyalty and Dependence in Online Brokerage - Results from a Causal Analysis
Y. Staack
Product Bundling as a Marketing Application 221
B. Stauß, W. Gaul

Energy, Environment and Health

Entwicklung und Anwendung einer mehrstufigen 229
Methodik zur Analyse betriebsübergreifender
Energieversorgungskonzepte
W. Fichtner, O. Rentz

A System Dynamics Model of the Epidemiological 237
Transition
S. Fleßa

Finance, Banking and Insurances

Implementing a Reference Portfolio Strategy 245
in Bond Portfolio Management
U. Derigs, N.-H. Nickel

Evolutionary Algorithms and the Cardinality Constrained 253
Portfolio Optimization Problem
F. Streichert, H. Ulmer, A. Zell

Calculating Concentration-Sensitive Capital Charges with 261
Conditional Value-at-Risk
D. Tasche, U. Theiler

Simulation

Integration der Simulation in die Programmplanung einer 269
globalen Supply Chain
L. Dohse, T. Hanschke, I. Meents, H. Zisgen

Objektorientierte Simulation von Anlagen der 276
Elektronikmontage
M. Grunow, H.-O. Günther

Continuous Optimization

A Mixed-Discrete Bilevel Programming Problem 284
S. Dempe, V. Kalashnikov
Detecting Superfluous Constraints in Quadratic Programming by Varying the Optimal Point of the Unrestricted Problem
P. Recht

Fast Optimal Control Algorithms with Application to Chemical Engineering

Discrete and Combinatorial Optimization

Proofs of Unsatisfiability Via Semidefinite Programming
M. Anjos

Algorithms with Performance Guarantees for a Metric Problem of Finding Two Edge-Disjoint Hamiltonian Circuits of Minimum Total Weight
A.E. Baburin, E.K. Gimadi, N.M. Korkishko

A Quadratic Optimization Model for the Consolidation of Farmland by Means of Lend-Lease Agreements
A. Brieden, P. Gritzmann

A Bipartite Graph Simplex Method
R. Euler

Regions of Stability for Nonlinear Discrete Optimization Problems
D. Fanghänel

Optimization Models for the Containership Stowage Problem
P. Giemsch, A. Jellinghaus

Solving the Sequential Ordering Problem with Automatically Generated Lower Bounds
I.T. Hernádवölgyi

Scheduling Jobs with a Stepwise Function of Change of Their Values
A. Janiak, A. Kasperski, T. Krysiak

Small Instance Relaxations for the Traveling Salesman Problem
G. Reinelt, K.M. Wenger
Applied Probability

A Remark on Multiobjective Stochastic Optimization Problems: Stability and Empirical Estimates
V. Kaňková

Portfolio Optimization under Partial Information: Stochastic Volatility in a Hidden Markov Model
J. Sass, U.G. Haussmann

On the Set of Optimal Policies in Variance Penalized Markov Decision Chains
K. Sladký, M. Sitař

On Random Sums and Compound Process Models in Financial Mathematics
P. Volf

Artificial Intelligence, Fuzzy Logic and Neural Networks

Structural Optimization in Aircraft Engineering using Support Vector Machines
P. Kaletta, K. Wolf, A. Fischer

Zeitformen in einer probabilistischen Konditionallogik
E. Reucher, W. Rödder

Dienstplanbewertung mit unscharfen Regeln
A. Schroll, T. Spengler

Optimization by Gaussian Processes assisted Evolution Strategies
H. Ulmer, F. Streichert, A. Zell

Econometrics, Statistics, Mathematical Economics and Decision Theory

Stochastic Programming and Statistical Estimates
S. Vogel

Time Lags in Capital Accumulation
R. Winkler, U. Brandt-Pollmann, U. Moslener, J.P. Schröder
Experimental Economics, Game Theory and Auctioning

First-Price Bidding and Entry Behavior in a Sequential Procurement Auction Model 459
J. P. Reiß, J. R. Schöndube

Web Technology, Knowledge Management and Decision Support Systems

Financial Market Web Mining with the Software Agent 467
PISA
P. Bartels, M.H. Breitner

Non-Linear Programming Solvers for Decision Analysis 475
X. Ding, M. Danielson, L. Ekenberg

knowCube - A Spreadsheet Method for Interactive Multicriteria Decision Making 483
H.L. Trinkaus
Ahr, D.; Fahrion, R.; Oswald, M.; Reinelt, G. (Eds.)
2004, XVI, 490 p. 19 illus., Softcover
ISBN: 978-3-540-21445-8