

### 3.7 Overview of Parallel Sessions

| Room             | Parallel Sessions WED 13:30 – 15:30  |  |  |
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| NU 12a<br>p. 37  | <b>Praxis des Revenue Management</b> , chair: RÜDIGER THIEL, Low Cost Carrier - ein neues Feld für Revenue Management  | chair: KLEIN, ROBERT<br>ROBERT DÖRBAND, Revenue Management in der Gaswirtschaft  | KONSTANTINOS PAPADOPOULOS, Herausforderungen für das Ertragsmanagement im kombinierten Güterverkehr  |
| AW 1017<br>p. 37 | <b>Planning UMTS Network</b> , chair: ERIK R. FLEDDERUS, Snapshots for Planning and Evaluation of Cellular Networks  | MARTIN, ALEXANDER<br>ANDREAS EISENBLÄTTER, Models for UMTS Radio Network Planning  | DANIEL JUNGLAS, Optimization Methods for UMTS Radio Network Planning   |
| NU 04<br>p. 37   | <b>Process Industry</b> , chair: CHRISTOPHER SÜRIE, Campaign Planning with Time-Indexed Model Formulations   | DANIEL<br>MOHAMED K. OMAR, A Mixed Integer Programming Approach for the Development of Production Planning in the Process Industry                     | PETER SCHONER, Ein heuristisches Verfahren auf Basis von Prioritätsregeln zur Produktionsplanung in der Prozessindustrie                       |
| NU 05<br>p. 37   | <b>Supply Chain Inventories</b> , chair: KAI HOBERG, Analyzing the Behavior of Supply Chains in Response to Stationary and Non-Stationary Demand: A Control Theoretic Approach | MINNER, STEPHAN<br>JUDITH MARIA SPITTER, Methods for Balanced Allocation in Mathematical Programming Models for Supply Chain Operations Planning       | HERBERT JODLBAUER, The Influence of Inventory Deviation on Lead-Time and Utilization   |
| NU 09<br>p. 38   | <b>Vehicle Routing and Scheduling</b> , chair: TORE GRÜNERT, Generic Modelling and Algorithms for Real-World Vehicle Routing and Scheduling Problems                           | Practice, chair: DADUNA, JOACHIM<br>JÖRN SCHÖNBERGER, Combined Request Selection and Transport Planning – Models and Algorithms                        | WOLFGANG WALTER GARN, A Real-World S-MD-mVRP-TW  |
| NU 01<br>p. 38   | <b>Further Scheduling Topics I</b> , chair: PETER BRUCKER, Decomposition of Railway Scheduling Problems  | BRUCKER, PETER<br>THOMAS ELENDNER, A Lagr. Heuristic for the Weighted Job Interval Scheduling Problem  | VLADIMIR KOTOV, Semi On-Line Problems on Identical Machines  |
| NU 08<br>p. 38   | <b>Marketing and Data Analysis I</b> , chair: DANIEL BAIER, Linking Conjoint Analysis and Quality Function Deployment for Optimal Product Design                               | chair: WAGNER, UDO<br>BERND STAUSS, Product Bundling as a Marketing Application  | PATRICK THOMA, Using Multi-dimensional Scaling in Recommender Systems  |
| NU 10<br>p. 38   | <b>Bank Management</b> , chair: ARMIN VARMAZ, Neuerungen im Bereich der Data Envelopment Analysis und deren Einsatz im Bankensektor  | BREITNER, MICHAEL H.<br>MARIO STRASSBERGER, How to Control Dynamically Market Risk Setting Risk Limits?  | MICHAEL H. BREITNER, WARRANT-PRO-2: A GUI-Software for Easy Evaluation, Design and Visualization of European Double-Barrier Options            |
| NU 13<br>p. 39   | <b>Theory of Linear and Nonlinear</b> , chair: STEPHAN DEMPE, A Mixed-Discrete Bilevel Programming Problem   | Optimization, chair: RECHT, PETER<br>ALEXANDER PLYASUNOV, The Bilevel Optimization Problems with a Multiple-Choice Knapsack Problem on the Lower Level | EVGENY BELOUSOV, On Types of Convergence of Penalty Functions Method   |
| NU 14<br>p. 39   | <b>Cones, Clustering and Stable Sets</b> , chair: LEONID KHACHYAN, Generating Spanning Cones and Strongly Connected Digraphs   | RECHT, PETER<br>ANDREAS BRIEDEN, Consolidation of Farming by Means of Norm-Maximization  | STEFAN PICKL, Cluster Techniques, Polytopes and the Optimization of Search Strategies within the Analysis of DNA-Expression Data               |
| NU 15<br>p. 39   | <b>Genetic and Interactive Algorithms</b> , chair: GUNNAR W. KLAU, Human-Guided Search: Survey and Recent Results  | KOLOKOLOV, ALEXANDER<br>ANDREAS BORTFELDT, Ein genetischer Algorithmus für das zweidimensionale Strip-Packing-Problem                                  | FRANK KUBITSCHKEK, Genetic Algorithm Fitness Functions for the Nesting Problem   |
| NU 12<br>p. 39   | <b>Portfolio-Optimization</b> , chair: JÖRN SASS, Portfolio Optimization under Partial Information: Parameter Estimation in a Hidden Markov Model                              | RIEDER, ULRICH<br>PETR VOLF, On Random Sums and Compound Process Models in Financial Mathematics   | KAREL SLADKY, On the Set of Optimal Policies in Variance Penalized Markov Decision Chains  |
| IS 0011<br>p. 40 | <b>Neural Networks</b> , chair: JENS ROHDE, Application of Neural Networks in Advanced Planning  | SPENGLER, THOMAS<br>KEJING ZHANG, The Neural Network Based Integrated Multi-Criteria Decision Support System   | HANS-GEORG ZIMMERMANN, Model Based Feature Selection by Neural Networks  |
| NU 03<br>p. 40   | <b>Statistics and Econometrics</b> , chair: VOLKER KRÄTSCHEMER, Least Squares Estimation in Linear Regression Models with Vague Concepts                                       | KOGELSCHATZ, HARTMUT<br>CARMEN BROSCHE, Testen kauasaler Effekte   | SILVIA VOGEL, Stochastic Optimization and Statistical Estimates  |
| NU 06<br>p. 40   | <b>Anreizprobleme mehrerer Agenten sowie Unternehmensbewertung und Kapitalkosten</b> , chair: MICHAEL KRAPP, Zur Manipulationsresistenz kollektiver Entscheidungsregeln        | KORN, EVELYN<br>JAN DAUGART, Unternehmensbewertung mit undifferenzierten Anreizsystemen  | JÖRG STEPHAN, MATTHIAS WEISS, Unternehmensbewertung bei atmender Verschuldung und Insolvenzrisiko  |
| NU 02<br>p. 40   | <b>Decision Support Systems</b> , chair: HANS L. TRINKAUS, A Knowledge Box for Dynamic Multicriteria Decision Support  | TRINKAUS, HANS L.<br>LEENA SUHL, A Decision Support System for Recovery Management in Public Transport   | GUANWEI HUANG, K-Pool: Concepts for Interfacing Knowledge Management and Decision Support based on Contextual Collaboration and Web Technology |
| NU 16<br>p. 28   | <b>Dissertation Awards</b> , chair: MATTHIAS KÖPPE, Exact Primal Algorithms for General Integer and Mixed-Integer Linear Programs  | GUNTHER, HANS-OTTO<br>STEFAN SPINLER, Capacity Reservation for Capital-Intensive Technologies  | RAIK STOLLETZ, Performance Analysis and Optimization of Inbound Call Centers   |

| Room             | Parallel Sessions WED 16:45 – 18:45  |  |   |   |
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| NU 12a<br>p. 41  | <b>Forecasting and Impacts of Customer Behaviour</b> , chair: FLEISCHMANN, MORITZ<br>SILVIA RIEDEL, Adaptive Mechanisms in an O&D Demand Forecasting System  |  |   | Section 1<br>ANITA PETRICK, A New Hybrid Method for the Detection of Outliers in an Airline's Booking Data<br>JÖRG LINDENMEIER, The Influence of Revenue Management Techniques on Customer Relationships<br>CORNELIA SCHÖN, Service Pricing & Revenue Management: An Integrated Approach of Marketing and Operations  |
| AW 1017<br>p. 41 | <b>Optimization and Trading in Telecommunication and Information Technology</b> , chair: EISENBLÄTTER, ANDREAS<br>ANDREAS BLEY, A Lagrangian Approach for Integrated Network Configuration and Routing Planning in IP Networks |  | ADRIAN ZYMOLKA, Wavelength Assignment with Converters in All-Optical Networks   | Section 2<br>STAN VAN HOESEL, Tarification of Connections in Telecom Networks<br>OLGA POPOVA, Optimization of the Economical Decisions on the Basis of Reflexive Information Technology – VINTSELLING   |
| NU 04<br>p. 41   | <b>Network Design and Operations</b> , chair: MELO, TERESA<br>VOLKER KLOHR, Planning Methodology and Optimization Approaches for Supply Chains in the Automotive after Sales Business  |  |   | Section 3<br>BILGE BILGEN, Mixed Integer Programming (MIP) Approach for Distribution System Planning Problem<br>MICHAEL SCHRÖDER, Fast Heuristics for Territory Design<br>TERESA MELO, Dynamic Multi-Commodity Facility Location: A Mathematical Modelling Framework for Strategic Supply Chain Planning  |
| NU 05<br>p. 41   | <b>Inventory Control</b> , chair: SPITTER, JUDITH M.<br>PEER KLEINAU, Deriving Inventory Control Policies for Periodic Review with Genetic Programming   |  |   | Section 3<br>STEFAN MINNER, Multi-Product Replenishment Strategies under a Joint Capacity Constraint<br>CHRISTIAN GOTZEL, Policy Approximation for the Production Inventory Problem with Stochastic Demand, Stochastic Yield and Production Leadtime<br>GUDRUN KIESMÜLLER, Coordinated Transportation and Inventory Management in Supply Chains                           |
| NU 09<br>p. 42   | <b>Routing Problems</b> , chair: GRÜNERT, TORE<br>GISELHER PANKRATZ, A Genetic Algorithm Based Approach for Solving the Dynamic Pickup and Delivery Problem with Time Windows  |  | ANDREAS CARDENEO, An IP/CP Solution Procedure for the Vehicle Routing Problem with Alternative Drop Points and Time Constraints | Section 4<br>ANDREAS REINHOLZ, Iterated Local Search, Variable Neighborhood Search and Hybrid Evolutionary Alg. for Periodic Mult. Depot VRPs<br>JÖRG HOMBERGER, Ein hybrider genetischer Algorithmus zur Transportdisposition im Lieferservice   |
| NU 01<br>p. 42   | <b>Project Scheduling</b> , chair: KOLISCH, RAINER<br>JOSÉ FERNANDO GONÇALVES, A Random Key Based Genetic Algorithm for the Resource Constrained Project Scheduling Problem  |  |   | Section 5<br>ANDREAS WOLF, Dynamische Projektsteuerung unter Berücksichtigung der Risikoeinstellung der Projektleitung<br>RAINER KOLISCH, Central vs. Decentral Scheduling of Research Projects<br>SERGEY SOUKHIKH, Tabu Search Algorithm for the Resource Constrained Project Scheduling Problem with Profit Reinvestment  |
| NU 08<br>p. 42   | <b>Marketing and Data Analysis 2</b> , chair: BAIER, DANIEL<br>REINHOLD DECKER, Identifying Patterns in Buying Behavior by Means of Growing Neural Gas Network   |  | CHRISTIAN BOMHARDT, Web Robot Detection   | Section 6<br>NADINE S. SCHMIDT-MÄNZ, Measurement of Online Visibility   |
| NU 10<br>p. 42   | <b>Financial Engineering</b> , chair: BRANGER, NICOLE<br>JÖRG DOEGE, Using Financial Engineering for the Valuation of Operational Flexibility  |  |   | Section 8<br>NICOLE BRANGER, Tractable Hedging – An Implementation of Robust Hedging Strategies<br>FRANZ NELISSEN, Mathematical Optimization in Finance: Closing the Gap  |
| AW 1016<br>p. 43 | <b>Simulation Software and Applications</b> , chair: GUNTHER, HANS-OTTO<br>MARTIN GRUNOW, Konfiguration von Anlagen der Elektronikmontage mit Hilfe objektorientierter Simulation  |  |   | Section 9<br>HORST ZISGEN, Integrierte Simulation mittels EPOS<br>TORSTEN REINERS, SimTool - eine Plattform zum Design interaktiver Kurse im Bereich Simulation<br>ASHRAF A. GOUDA, New Sampling Techniques and Variance Reduction Monte Carlo Simulation Alg. for Dirichlet Distr.   |
| NU 13<br>p. 43   | <b>Multiobjective Optimization</b> , chair: DEMPE, STEPHAN<br>KRISTIN WINKLER, On Geofrions Proper Efficiency in $C(T)$  |  |   | Section 10<br>JOHANNES JAHN, Connections between Semidefinite Programming and Vector Optimization<br>JOÃO LOURENÇO, An Interactive Weighted-Sum Alg. for Solving Mult. Objective Linear Fract. Programming Problems<br>JOÃO PAULO COSTA, Reference Points and the Computation of Non-Dominated Solutions in MOLFP   |
| NU 14<br>p. 43   | <b>Assignments</b> , chair: ANJOS, MIGUEL<br>NATALIE KORKISHKO, Three-Index Axial Assignment Problem on Single-Cycle Permutations: Feasible Solutions and Approximation Algorithms   |  |   | Section 11<br>ELISABETH GASSNER, A Fast Algorithm for a Parametric Assignment Problem and Applications to Max-Algebra<br>VITALI DEMIDENKO, The Quadratic Assignment Problem: Reaching the Optimal Solution using Pairwise Permutation<br>MIKHAIL PASCHENKO, A New Tabu Search Algorithm for the Generalized Assignment Problem  |
| NU 15<br>p. 43   | <b>Hamilton Cycle and TSP</b> , chair: BORNDÖRFER, RALF<br>KLAUS M. WENGER, Small Instance Relaxations for the Traveling Salesman Problem  |  |   | Section 11<br>ISTVAN HERNADVOLGYI, Solving the Sequential Ordering Problem with Automatically Generated Lower Bounds<br>ALEXEI Y. BABURIN, A 3/4-Approx. Algorithm for Finding Two Disjoint Hamiltonian Cycles of Maximum Total Weight<br>EDWARD GIMADI, An Approx. Alg. for a Metric Problem of Finding Two Disjoint Hamiltonian Cycles of Min. Weight                   |
| NU 12<br>p. 44   | <b>Stochastic Programming</b> , chair: DUPACOVA, JITKA<br>JITKA DUPACOVA, Stochastic Programs with Decision-Dependent Probability Distributions  |  |   | Section 12<br>ANDREAS EICHHORN, Stochastic Programs and Coherent Risk Measures: Stability and Decomposition Approaches<br>VLASTA KANKOVA, A Remark on Multiobjective Stochastic Optimization Problems: Stability and Empirical Estimates<br>GERGELY MADI-NAGY, Multivariate Lagrange Interpolation and its Application for Bounding Multivariate Discrete Moment Problems |
| IS 0011<br>p. 44 | <b>Decision Systems based on Fuzzy Logic</b> , chair: PODDIG, THORSTEN<br>SEBASTIAN BECK, Ein entscheidungstheoretischer Ansatz zur Bewertung von Fuzzy-Regeln   |  |   | Section 13<br>SIEGFRIED GUTTENBERGER, Die Auswahl von Produktionsmaschinen mit Hilfe eines Fuzzy-Entscheidungsunterstützungssystems<br>THOMAS SPENGLER, Fuzzy-Szenario-Management<br>TATIANA STAROSTINA, Using Conception of Maximal $p$ -Partite Structure of Fuzzy Graph for Classification Problem   |
| NU 06<br>p. 44   | <b>Dynamische Anreizprobleme</b> , chair: HOMBURG, CARSTEN<br>CHRISTIAN HOFMANN, Gestaltung von Erfolgsrechnungen zur Steuerung langfristiger Projekte   |  |   | Section 16<br>JENS ROBERT SCHÖNDUBE, Performancemessung und Informationsgehalt in einer Agency-Beziehung mit beschränkter Selbstbindungskraft<br>CHRISTIAN LUKAS, Executive Pay: Prior Successes and Future Incentives  |
| NU 02<br>p. 44   | <b>Internet based Learning</b> , chair: REINERS, TORSTEN<br>GEORGE GOGUADZE, Interactively Learning OR Methods with ActiveMath   |  |   | Section 17<br>BIRGIT PRÜMER, Eine induktive Lernstrategie zur Verarbeitung sicherer Regeln<br>TORSTEN REINERS, Die adaptive virtuelle Lernumgebung SMARTFRAME   |
| NU 16<br>p. 28   | <b>Diploma Awards</b> , chair: BRUCKER, PETER<br>STEFFEN BICKEL, Optimierung von Sicherheitsbeständen in Supply Chains mit Simulation  |  |   | Section 17<br>THOMAS BRUNS, Steuerung von Investitions- und Absatzentscheidungen über Verrechnungspreise<br>HANS-FLORIAN GEERDES, Capacity Improvements in TDMA-based Cellular Networks by Relaying and Flexible Transmission Scheduling  |

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| NU 12a<br>p. 45  | <b>Revenue Management with Multiple Resources</b> , chair: KIMMS, ALF<br>JENS FELLER, Optimal Threshold Policies and an Online Decision Rule for Multidimensional Resources in Revenue Management |  | Section 1<br>MICHAEL MÜLLER-BUNGART, Network Revenue Management: Some Issues on Upper and Lower Bounds                         |
| NU 04<br>p. 45   | <b>Cooperative Lotsizing</b> , chair: BUSCHER, UDO<br>GREGOR SCHULTE, Unternehmensübergreifende Losgrößenplanung mit dem Verfahren nach Blackburn-Millen  | SVEN BEHRENS, Effizienzuntersuchungen Losgrößenmodellen  | Section 3<br>HALDUN SURAL, Coordination in Economic Production Quantities  |
| NU 05<br>p. 45   | <b>Remanufacturing</b> , chair: KIESMÜLLER, GUDRUN<br>IAN M. LANGELLA, Evaluating the Performance of Heuristics for the Disassemble-to-Order Problem  | JAN-KEES VAN OMMEREN, Location of Repairshops in a Stochastic Environment  | Section 3<br>RAINER KLEBER, A Dynamic Model for Choosing the Optimal Technology in the Context of Reverse Logistics            |
| NU 09<br>p. 45   | <b>Crew and Fleet Planning</b> , chair: HAMID KHARRAZIHA, Large Scale Crew-Rostering  | IRNICH, STEFAN<br>RASTISLAV GALIA, Column Generation for Crew Pairing  | Section 4<br>NATALIA KLEWER, Mehrdepot-Umlaufplanung für ÖPNV-Betriebe   |
| NU 16<br>p. 45   | <b>Crew/Staff Scheduling</b> , chair: MATTFELD, DIRK C.<br>DIRK CHRISTIAN MATTFELD, Task Scheduling under Gang Constraints  | CHRISTOPH STARK, Scheduling Regular and Temporary Employees with Qualifications in a Casino                        | Section 5<br>MATTHIAS EHRGOTT, Optimization of Cost and Robustness in Airline Crew Scheduling                                  |
| NU 01<br>p. 46   | <b>Single-Machine Scheduling</b> , chair: KANET, JOHN<br>VALERY GORDON, Single Machine Scheduling with Precedence Constraints and Due Date Assignment   | JOHN KANET, Precedence Theorems for One-Machine Weighted Tardiness   | Section 5<br>TOMASZ KRYSIAK, A Single Processor Scheduling Problem with a Range-Linear Model of Loss of Job Value              |
| NU 08<br>p. 46   | <b>Marketing and Data Analysis 3</b> , chair: HILDEBRANDT, LUTZ<br>UDO WAGNER, Ein einfaches Modell zur Bestimmung des Markenwechselverhaltens auf Konsumgütermärkten                             | LANA POUKLIAKOVA, Modeling Brand Loyalty   | Section 6<br>SÖREN W. SCHOLZ, Konzeption eines intelligenten Systems zur Überwachung unternehmensrelevanter Marktentwicklungen |
| AW 1017<br>p. 46 | <b>Clinical Radio Therapy Planning</b> , chair: FLESSA, STEFFEN<br>KARL-HEINZ KÜFER, A Multiple-Objective Optimizer for Clinical Radiation Therapy Planning                                       | MICHAEL MONZ, Modelling Clinical Decision Processes for Radiotherapy Planning                                      | Section 7<br>STEFAN NICKEL, Planning Patient Transports in Hospitals - Insights and a Project Report                           |
| NU 10<br>p. 46   | <b>Risk Management</b> , chair: KLEINE, ANDREAS<br>ANDREAS KLEINE, Conditional Value-at-Risk bei diskreten Zufallsvariablen   | DIRK TASCHKE, Calculating Concentration-Sensitive Capital Charges with Conditional Value-at-Risk                   | Section 8<br>NILS-HOLGER NICKEL, Umsetzung von Muster-Portfolio-Strategien im Rentenfondsmanagement                            |
| NU 03<br>p. 47   | <b>Simulating Human Resources</b> , chair: GRUNOW, MARTIN<br>STEFANO ARMENIA, Service Quality and Customer Abandonment: A System Dynamics Approach to Call Center Management                      | PETER BRADL, Simulation in Management  | Section 9  |
| NU 13<br>p. 47   | <b>Quadratic and Nonsmooth Optimization</b> , chair: MOMBAUR, KATJA D.<br>PETER RECHT, Redundancies in Positive-Semidefinite Quadratic Programming  | OLIVER STEIN, Constraint Qualifications for Non-Smooth Optimization Problems with Applications to Design Centering | Section 10<br>KATJA D. MOMBAUR, Stability Optimization of Periodic Processes with Discontinuities                              |
| NU 14<br>p. 47   | <b>Scheduling I</b> , chair: EULER, REINHARDT<br>RALF BÖRNDÖRFER, Solving Duty Scheduling Problems in Public Transit  | MARCUS OSWALD, Solving Coupled Task Problems to Optimality   | Section 11<br>ADAM JANIAK, Scheduling Multiprocessor Tasks in the Hybrid Flow Shop   |
| NU 15<br>p. 47   | <b>Stability and Sensitivity</b> , chair: BRIEDEN, ANDREAS<br>ALEXANDER KOLOKOLOV, Stability Analysis of Some Integer Programming Algorithms  | DIANA FANGHÄNEL, Regions of Stability for Nonlinear Discrete Optimization Problems                                 | Section 11<br>YURY NIKULIN, Sensitivity Analysis of Vector Discrete Optimization Problems                                      |
| IS 0011<br>p. 47 | <b>Fuzzy Decision Support Systems</b> , chair: ROMMELFANGER, HEINRICH<br>ALEXANDRA SCHROLL, Dienstplanbewertung mit unscharfen Regeln   | JAROSLAV RAMIK, Duality in Fuzzy Linear Programming Based on Fuzzy Relations                                       | Section 13<br>MICHAEL DRAWE, Tourenplanung bei vager Nachfrage   |
| AW 1016<br>p. 48 | <b>Auctioning Systems</b> , chair: LEHMANN-WAFFENSCHMIDT, MARCO<br>GRAZIANO GALIANO, A Cumulative Genetic Algorithm to Solve Combinatorial Auction  | J. PHILIPP REISS, On Participation and Bidding in Sequential Procurement Auctions                                  | Section 15<br>SVEN DE VRIES, On Ascending Vickrey Auctions for Heterogeneous Objects   |
| NU 06<br>p. 48   | <b>Controlling und Produktmarkt-Wettbewerb</b> , chair: DIERKES, STEFAN<br>EVELYN KORN, Zur Durchsetzung des Arm's Length Grundsatzes – Eine Win-Win Situation?                                   | BARBARA PIRCHEGGER, Choice of Managerial Performance Measures and Their Effect on Incentives for Takeovers         | Section 16<br>HOLGER ASSEBURG, Relative Performancebewertung auf Oligopolmärkten   |
| NU 02<br>p. 48   | <b>Data and Knowledge Management</b> , chair: SCHEUBREIN, RALPH<br>RALPH SCHEUBREIN, Strukturierung von Wissensdatenbanken mit Hilfe der Metapher „Lernziel“                                      | XIAOSONG DING, Non-Linear Programming Solvers for Decision Analysis Support Systems                                | Section 17   |

| Room             | Parallel Sessions THU 13:30 – 15:30  |   |  |  |
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| NU 12a<br>p. 49  | <b>Dynamic Pricing</b> , chair: THONEMANN, ULRICH<br>FLORIAN DEFREGGER, Revenue Management in Manufacturing  | ROLF HELLERMANN, Application of Capacity Options for Air Cargo Revenue Management   | MORITZ FLEISCHMANN, Coordinating Inventory and Pricing Decisions when Customers Stockpile                            | Section 1<br>ULRICH THONEMANN, Coordination of Pricing and Inventory Control Across Products   |
| NU 04<br>p. 49   | <b>Coordination and Cooperation</b> , chair: LEISTEN, RAINER<br>ERICH KLEINDIENST, Aggregation of Demand in Supply Chain Management using Approximated Shadow Prices                           | BERND FAISST, The Impact of the Exchange of Market and Stock Information on the Bullwhip Effect in Supply Chains                                | CHENG-SIONG BONG, Production Planning under Dynamic Environment: An Integrated Framework Approach                    | Section 3<br>RICHARD PIBERNIK, Planungsmodelle zur Unterstützung eines zentralen und dezentralen Supply Chain Planning                           |
| NU 05<br>p. 49   | <b>Production and Inventory Control</b> , chair: SÜRIE, CHRISTOPHER<br>THOMAS RÜCKER, Analysis and Optimization of Production Authorization Card Controlled Complex Manufacturing Systems      | CHRISTOPH SCHWINDT, Scheduling with Storage Resources   | NORBERT TRAUTMANN, A Priority-Rule Based Method for Batch Production Scheduling in the Process Industries            | Section 3<br>MOHSEN ELHAFSI, Assignment and Dynamic Loading of Chemical Products to Bulk Tankers   |
| NU 09<br>p. 49   | <b>Vehicle Routing and Scheduling: Theory</b> , chair: CRAJNIC, TEODOR<br>MARC REIMANN, Using MST Information for Solving the TSP with an Ant System   | STEFAN IRNICH, Local Search for Vehicle Routing and Scheduling Problems (Part I): Neighborhoods   | TORRE GRÜNERT, Local Search for Vehicle Routing and Scheduling Problems (Part II): Search Techniques                 | Section 4<br>ANKE FABRI, On Dynamic Pickup and Delivery Vehicle Routing with Several Time Windows and Waiting Times                              |
| NU 16<br>p. 50   | <b>Further Scheduling Topics 2</b> , chair: BUCHHOLZ, JENS<br>CHIA-LI WANG, Efficient Simulation of Queues in Heavy Traffic  | ANDRÉ AHUJA, Risiko- und Konfliktmanagement im IT-Projekt   | JENS BUCHHOLZ, Optimal Machine Scheduling in a Shipyard  | Section 5<br>MACIEJ MACHOWIAK, Preemptible Malleable Tasks Scheduling Problem  |
| NU 01<br>p. 50   | <b>Flow-Shop Scheduling</b> , chair: KNUST, SIGRID<br>SIGRID KNUST, Complexity Results for Flow-Shop Problems with a Single Server   | MIKHAIL Y. KOVALYOV, Scheduling Two-Machine Flowshop with one Inavailability Interval   | ALEXANDER A. AGEEV, Approximation Algorithms for Single and Two-Machine Flow Shop Problems with Exact Delays         | Section 5<br>GRZEGORZ PAWLAK, Scheduling Tasks in a Two Machines Flow Shop with Transportation   |
| NU 08<br>p. 50   | <b>Marketing and Data Analysis 4</b> , chair: GAUL, WOLFGANG<br>MAGDALENA MISSLER-BEHR, Kundensegmentierung auf Basis der logistischen Regression  | YVONNE STAAACK, Determinants and Behavioral Consequences of Customer Loyalty and Dependence in Online Brokerage: Results from a Causal Analysis | ANDREAS HILBERT, Ein Modell zur Erklärung der Kundenbindung im Automobilsektor                                       | Section 6<br>KLAUS WEBER, Marketing Decision Support by Means of Stochastic Programming in a Fuzzy Environment                                   |
| AW 1017<br>p. 50 | <b>Public Health and Hospital Management</b> , chair: KUFER, KARL-HEINZ<br>STEFFEN FLESSA, Many Worlds of Health: A System Dynamics Model of the Epidemiological Transition                    | HANS-OTTO GÜNTHER, Einsatzplanung für medizinisches Personal in klinischen Studien  | HANS-JÜRGEN ZIMMERMANN, Optimierung oder globale Effizienzbestimmung in Krankenhäusern?                              | Section 7  |
| NU 10<br>p. 51   | <b>Financial Markets</b> , chair: DORFLEITNER, GREGOR<br>CLAUDIA FINK, Modelanalytische Preis-Gleichgewichtsbeziehungen auf Kassa- und Terminmärkten   | GREGOR DORFLEITNER, How Short-Term is the Trading Behavior in German Futures Markets?   | ROLAND MESTEL, Trading Volume and Stock Return Volatility  | Section 8<br>CHRISTIAN KLEIN, Der Einfluss von Handelssystemen auf die Volatilität eines Investments   |
| NU 13<br>p. 51   | <b>Numerical Methods of Nonlinear Optimization I</b> , chair: STEIN, OLIVER<br>CLAUDE LEMARECHAL, On a primal-proximal heuristic in combinatorial optimization. Application to unit-commitment | MICHAEL BUSSIECK, Global Optimization with GAMS - Applications and Performance  | VITALIJ ZHADAN, Barrier-Projective Methods for Linear Complementarity Problem  | Section 10<br>VICTOR IZHUTKIN, Parallel Multithread Technology for Solving Nonlinear Constraint Programming Problems                             |
| NU 14<br>p. 51   | <b>Graph Theory and Layout</b> , chair: GRUBER, GERALD<br>JAN DEGENHARDT, On Maximal Edge-Disjoint Cycle Decompositions in Graphs  | VICTOR LEPIN, Approximation Algorithms for Hypergraph Layout Problems   | EDUARDO MONTENEGRO, Dimension of Orbit in Graph  | Section 11<br>YURY ORLOVICH, $P_3$ -dominable Graphs   |
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| NU 06<br>p. 55   | <b>Planungs- und Kontrollprobleme</b> , chair: LUHMER, ALFRED<br>RALF BAUER, On the Decision-Oriented Assignment of Common Cost   | SVEN BEHRENS, Zur Manipulierbarkeit von Ergebnissen der Data Envelopment Analysis   | Section 16<br>MAGDALENA MISSLER-BEHR, Ein Stichprobenmodell zur Retourenkontrolle   |

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| AW 1017<br>p. 57 | <b>Energy and Environment 2</b> , chair: LIESEGANG, GÜNTHER D.<br>WOLF FICHTNER, Entwicklung und Anwendung einer mehrstufigen Methodik zur Analyse betriebsübergreifender Energieversorgungs-konzepte     | MAGNUS FRÖHLING, Mass- and Energy-Flow Orientated Master Production Scheduling                                    |  | Section 7  |
| NU 10<br>p. 57   | <b>Portfolio Selection</b> , chair: KRAFT, HOLGER<br>FELIX STREICHERT, Using Hybrid Evolutionary Computation Algorithms for the Cardinality Constrained Portfolio Selection Problem                       | RALF WERNER, Improvements on Michaud's Resampled Efficient Portfolios   | HOLGER KRAFT, Optimal Portfolios with Stochastic Volatility  | ABBAS SEIFI, Robust Portfolio Selection Using Yield Maximization<br>Section 8  |
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