

Room	Parallel Sessions WED 13:30 – 15:30			
NU 12a	Praxis des Revenue Management , chair: RÜDIGER THEIL, Low Cost Carrier - ein neues Feld für Revenue Management	chair: KLEIN, ROBERT ROBERT DÖRBBAND, Revenue Management in der Gaswirtschaft	KONSTANTINOS PAPADOPOULOS, Herausforderungen für das Ertragsmanagement im kombinierten Güterverkehr	Section 1 ROBERT KLEIN, GERHARD WÄSCHER, Revenue Management und Dynamic Pricing im Rahmen der GOR (Diskussion)
AW 1017	Planning UMTS Network , chair: ERIK R. FLEDDERUS, Snapshots for Planning and Evaluation of Cellular Networks	MARTIN, ALEXANDER ANDREAS EISENBLÄTTER, Models for UMTS Radio Network Planning	DANIEL JUNGLAS, Optimization Methods for UMTS Radio Network Planning	Section 2 MARK ZIEGELMANN, Optimization for UMTS Radio Access Network Planning
NU 04	Process Industry , chair: QUADT, CHRISTOPHER SÜRIE, Campaign Planning with Time-Indexed Model Formulations	DANIEL	PETER SCHONER, Ein heuristisches Verfahren auf Basis von Prioritätsregeln zur Produktionsplanung in der Prozessindustrie	Section 3 FRANK KROLL, Integrated Procurement and Production Optimization in the Meat Processing Industry
NU 05	Supply Chain Inventories , chair: KAI HOBERG, Analyzing the Behavior of Supply Chains in Response to Stationary and Non-Stationary Demand: A Control Theoretic Approach	MINNER, STEPHAN 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	Section 3 ANDREA ZILLUS, Waiting Time Probabilities for Customer Orders in a Supply Chain
NU 09	Vehicle Routing and Scheduling: Practice , chair: DADUNA, JOACHIM TORE GRÜNERT, Generic Modelling and Algorithms for Real-World Vehicle Routing and Scheduling Problems	JÖRN SCHÖNBERGER, Combined Request Selection and Transport Planning – Models and Algorithms	WOLFGANG WALTER GARN, A Real-World S-MD-mVRP-TW	Section 4 GERRIET REENTS, Vermittlung von Fahrgemeinschaften betrachtet als Vehicle Routing Problem
NU 01	Further Scheduling Topics I , chair: PETER BRUCKER, Decomposition of Railway Scheduling Problems	chair: BRUCKER, PETER THOMAS ELENDRER, A Lagr. Heuristic for the Weighted Job Interval Scheduling Problem	VLADIMIR KOTOV, Semi On-Line Problems on Identical Machines	Section 5
NU 08	Marketing and Data Analysis I , chair: DANIEL BAIER, Linking Conjoint Analysis and Quality Function Deployment for Optimal Product Design	chair: WAGNER, UDO BERND STAUSS, Product Bundling as a Marketing Application	PATRICK THOMA, Using Multi-dimensional Scaling in Recommender Systems	Section 6
NU 10	Bank Management , chair: BREITNER, MICHAEL H. ARMIN VARMAZ, Neuerungen im Bereich der Data Envelopment Analysis und deren Einsatz im Bankensektor	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	Section 8
NU 13	Theory of Linear and Nonlinear Optimization , chair: RECHT, PETER STEPHAN DEMPE, A Mixed-Discrete Bilevel Programming Problem	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	Section 10 HINDERK BUSS, Relaxation Schemes for Constrained Variational Problems in Dual Formulation
NU 14	Cones, Clustering and Stable Sets , chair: GRITZMANN, PETER LEONID KHACHSIYAN, Generating Spanning Cones and Strongly Connected Digraphs	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	Section 11 REINHARDT EULER, Solving Weighted Stable Set Problems by the Simplex Method
NU 15	Genetic and Interactive Algorithms , chair: GUNNAR W. KLAU, Human-Guided Search: Survey and Recent Results	KOLOKOLOV, ALEXANDER ANDREAS BORTFELDT, Ein genetischer Algorithmus für das zweidimensionale Strip-Packing-Problem	FRANK KUBITSCHKEK, Genetic Algorithm Fitness Functions for the Nesting Problem	Section 11
NU 12	Portfolio-Optimization , chair: RIEDER, ULRICH JÖRN SASS, Portfolio Optimization under Partial Information: Parameter Estimation in a Hidden Markov Model	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	Section 12 VADIM ARKIN, Optimal Stopping Approach to Investment Timing Problem
IS 0011	Neural Networks , chair: SPENGLER, THOMAS JENS ROHDE, Application of Neural Networks in Advanced Planning	KEJING ZHANG, The Neural Network Based Integrated Multi-Criteria Decision Support System	HANS-GEORG ZIMMERMANN, Model Based Feature Selection by Neural Networks	Section 13 HANS-GEORG ZIMMERMANN, Cognitive Agents with Utility Functions
NU 03	Statistics and Econometrics , chair: VOLKER KRÄTSCHEMER, Least Squares Estimation in Linear Regression Models with Vague Concepts	chair: KOGELSCHATZ, HARTMUT CARMEN BROSCHE, Testen kausaler Effekte	SILVIA VOGEL, Stochastic Optimization and Statistical Estimates	Section 14
NU 06	Anreizprobleme mehrerer Agenten sowie Unternehmensbewertung und Kapitalkosten , chair: MICHAEL KRAPP, Zur Manipulationsresistenz kollektiver Entscheidungsregeln	chair: KORN, EVELYN JAN DAUGART, Unternehmenssteuerung mit undifferenzierten Anreizsystemen	JÖRG STEPHAN, MATTHIAS WEISS, Unternehmensbewertung bei atmender Verschuldung und Insolvenzrisiko	Section 16
NU 02	Decision Support Systems , chair: HANS L. TRINKAUS, A Knowledge Box for Dynamic Multicriteria Decision Support	TRINKAUS, HANS L. 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	Section 17
NU 16	Dissertation Awards , chair: MATTHIAS KÖPPE, Exact Primal Algorithms for General Integer and Mixed-Integer Linear Programs	GÜNTHER, HANS-OTTO 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			
NU 12a	Forecasting and Impacts of Customer Behaviour , chair: FLEISCHMANN, MORITZ			Section 1
		ANITA PETRICK, A New Hybrid Method for the Detection of Outliers in an Airline's Booking Data	JÖRG LINDENMEIER, The Influence of Revenue Management Techniques on Customer Relations	
AW 1017	Optimization and Trading in Telecommunication and Information Technology , chair: EISENBLÄTTER, ANDREAS	ADRIAN ZYMOLKA, Wavelength Assignment with Converters in All-Optical Networks		Section 2
			OLGA POPOVA, Optimization of the Economical Decisions on the Basis of Reflexive Information Technology – VINTSELLING	
NU 04	Network Design and Operations , chair: MELO, TERESA	VOLKER KLOHR, Planning Methodology and Optimization Approaches for Supply Chains in the Automotive after Sales Business	BILGE BILGEN, Mixed Integer Programming (MIP) Approach for Distribution System Planning Problem	Section 3
			MICHAEL SCHRÖDER, Fast Heuristics for Territory Design	TERESA MELO, Dynamic Multi-Commodity Facility Location: A Mathematical Modelling Framework for Strategic Supply Chain Planning
NU 05	Inventory Control , chair: SPITTER, JUDITH M.	PEER KLEINAU, Deriving Inventory Control Policies for Periodic Review with Genetic Programming	STEFAN MINNER, Multi-Product Replenishment Strategies under a Joint Capacity Constraint	Section 3
			CHRISTIAN GOTZEL, Policy Approximation for the Production Inventory Problem with Stochastic Demand, Stochastic Yield and Production Leadtime	GUDRUN KIESMÜLLER, Coordinated Transportation and Inventory Management in Supply Chains
NU 09	Routing Problems , chair: GRÜNERT, TORE	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
			ANDREAS REINHOLZ, Iterated Local Search, Variable Neighborhood Search and Hybrid Evolutionary Alg. for Periodic Mult. Depot VRPs	JÖRG HOMBERGER, Ein hybrider genetischer Algorithmus zur Transportdisposition im Lieferservice
NU 01	Project Scheduling , chair: KOLISCH, RAINER	JOSÉ FERNANDO GONÇALVES, A Random Key Based Genetic Algorithm for the Resource Constrained Project Scheduling Problem	ANDREAS WOLF, Dynamische Projektsteuerung unter Berücksichtigung der Risikoeinstellung der Projektleitung	Section 5
			RAINER KOLISCH, Central vs. Decentral Scheduling of Research Projects	SERGEY SOUKHIKH, Tabu Search Algorithm for the Resource Constrained Project Scheduling Problem with Profit Reinvestment
NU 08	Marketing and Data Analysis 2 , chair: BAIER, DANIEL	REINHOLD DECKER, Identifying Patterns in Buying Behavior by Means of Growing Neural Gas Network	CHRISTIAN BOMHARDT, Web Robot Detection	Section 6
			NADINE S. SCHMIDT-MÄNZ, Measurement of Online Visibility	
NU 10	Financial Engineering , chair: BRANGER, NICOLE	JÖRG DOEGE, Using Financial Engineering for the Valuation of Operational Flexibility	NICOLE BRANGER, Tractable Hedging – An Implementation of Robust Hedging Strategies	Section 8
			FRANZ NELISSEN, Mathematical Optimization in Finance: Closing the Gap	
AW 1016	Simulation Software and Applications , chair: GÜNTHER, HANS-OTTO	MARTIN GRUNOW, Konfiguration von Anlagen der Elektronikmontage mit Hilfe objektorientierter Simulation	HORST ZISGEN, Integrierte Simulation mittels EPOS	Section 9
			ASHRAF A. GOUDA, New Sampling Techniques and Variance Reduction Monte Carlo Simulation Alg. for Dirichlet Distr.	
NU 13	Multiobjective Optimization , chair: DEMPE, STEPHAN	KRISTIN WINKLER, On Geofrions Proper Efficiency in $C(T)$	JOHANNES JAHN, Connections between Semidefinite Programming and Vector Optimization	Section 10
			JOÃO LOURENÇO, An Interactive Weighted-Sum Alg. for Solving Mult. Objective Linear Fract. Programming Problems	JOÃO PAULO COSTA, Reference Points and the Computation of Non-Dominated Solutions in MOLFP
NU 14	Assignments , chair: ANJOS, MIGUEL	NATALIE KORKISHKO, Three-Index Axial Assignment Problem on Single-Cycle Permutations: Feasible Solutions and Approximation Algorithms	ELISABETH GASSNER, A Fast Algorithm for a Parametric Assignment Problem and Applications to Max-Algebra	Section 11
			VITALI DEMIDENKO, The Quadratic Assignment Problem: Reaching the Optimal Solution using Pairwise Permutation	
NU 15	Hamilton Cycle and TSP , chair: BORNDÖRFER, RALF	KLAUS M. WENGER, Small Instance Relaxations for the Traveling Salesman Problem	ISTVAN HERNADVOLGYI, Solving the Sequential Ordering Problem with Automatically Generated Lower Bounds	Section 11
			ALEXEI Y. BABURIN, A 3/4-Approx. Algorithm for Finding Two Disjoint Hamiltonian Cycles of Maximum Total Weight	EDWARD GIMADI, An Approx. Alg. for a Metric Problem of Finding Two Disjoint Hamiltonian Cycles of Min. Weight
NU 12	Stochastic Programming , chair: DUPACOVA, JITKA	JITKA DUPACOVA, Stochastic Programs with Decision-Dependent Probability Distributions	ANDREAS EICHHORN, Stochastic Programs and Coherent Risk Measures: Stability and Decomposition Approaches	Section 12
			VLASTA KANKOVA, A Remark on Multiobjective Stochastic Optimization Problems: Stability and Empirical Estimates	GERGELY MADI-NAGY, Multivariate Lagrange Interpolation and its Application for Bounding Multivariate Discrete Moment Problems
IS 0011	Decision Systems based on Fuzzy Logic , chair: PODDIG, THORSTEN	SEBASTIAN BECK, Ein entscheidungstheoretischer Ansatz zur Bewertung von Fuzzy-Regeln	SIEGFRIED GUTTENBERGER, Die Auswahl von Produktionsmaschinen mit Hilfe eines Fuzzy-Entscheidungsunterstützungssystems	Section 13
			THOMAS SPENGLER, Fuzzy-Szenario-Management	TATIANA STAROSTINA, Using Conception of Maximal p -Partite Structure of Fuzzy Graph for Classification Problem
NU 06	Dynamische Anreizprobleme , chair: HOMBURG, CARSTEN	CHRISTIAN HOFMANN, Gestaltung von Erfolgsrechnungen zur Steuerung langfristiger Projekte	JENS ROBERT SCHÖNDUBE, Performancemessung und Informationsgehalt in einer Agency-Beziehung mit beschränkter Selbstbindungskraft	Section 16
			CHRISTIAN LUKAS, Executive Pay: Prior Successes and Future Incentives	
NU 02	Internet based Learning , chair: REINERS, TORSTEN	VICTOR IZHUTKIN, Interactively Learning OR Methods with ActiveMath	TORSTEN REINERS, Die adaptive virtuelle Lernumgebung SMARTFRAME	Section 17
NU 16	Diploma Awards , chair: BRUCKER, PETER	STEFFEN BICKEL, Optimierung von Sicherheitsbeständen in Supply Chains mit Simulation	THOMAS BRUNS, Steuerung von Investitions- und Absatzentscheidungen über Verrechnungspreise	
			HANS-FLORIAN GEERDES, Capacity Improvements in TDMA-based Cellular Networks by Relaying and Flexible Transmission Scheduling	

Room	Parallel Sessions THU 08:30 – 10:00		
NU 12a	Revenue Management with Multiple Resources , chair: KIMMS, ALF JENS FELLER, Optimal Threshold Policies and an Online Decision Rule for Multidimensional Resources in Revenue Management	JÖRN MEISSNER, A New Resource Formulation of Multi-Product Revenue Management	Section 1 MICHAEL MÜLLER-BUNGART, Network Revenue Management: Some Issues on Upper and Lower Bounds
NU 04	Cooperative Lotsizing , chair: BUSCHER, UDO GREGOR SCHULTE, Unternehmensübergreifende Losgrößenplanung mit dem Verfahren nach Blackburn-Millen	SVEN BEHRENS, Effizienzuntersuchungen Losgrößenmodellen	Section 3 HALDUN SURAL, Coordination in Economic Production Quantities
NU 05	Remanufacturing , chair: KIESMÜLLER, GUDRUN 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 RAINER KLEBER, A Dynamic Model for Choosing the Optimal Technology in the Context of Reverse Logistics
NU 09	Crew and Fleet Planning , chair: HAMID KHARRAZIHA, Large Scale Crew-Rostering	IRNICH, STEFAN RASTISLAV GALIA, Column Generation for Crew Pairing	Section 4 NATALIA KIEWER, Mehrdepot-Umlaufplanung für ÖPNV-Betriebe
NU 16	Crew/Staff Scheduling , chair: MATTFELD, DIRK C. DIRK CHRISTIAN MATTFELD, Task Scheduling under Gang Constraints	CHRISTOPH STARK, Scheduling Regular and Temporary Employees with Qualifications in a Casino	Section 5 MATTHIAS EHRGOTT, Optimization of Cost and Robustness in Airline Crew Scheduling
NU 01	Single-Machine Scheduling , chair: VALERY GORDON, Single Machine Scheduling with Precedence Constraints and Due Date Assignment	KANET, JOHN JOHN KANET, Precedence Theorems for One-Machine Weighted Tardiness	Section 5 TOMASZ KRYSIAK, A Single Processor Scheduling Problem with a Range-Linear Model of Loss of Job Value
NU 08	Marketing and Data Analysis 3 , chair: UDO WAGNER, Ein einfaches Modell zur Bestimmung des Markenwechselsverhaltens auf Konsumgütermärkten	HILDEBRANDT, LUTZ LANA POUKLIKOVA, Modeling Brand Loyalty	Section 6 SÖREN W. SCHOLZ, Konzeption eines intelligenten Systems zur Überwachung unternehmensrelevanter Marktentwicklungen
AW 1017	Clinical Radio Therapy Planning , chair: KARL-HEINZ KÜFER, A Multiple-Objective Optimizer for Clinical Radiation Therapy Planning	FLESSA, STEFFEN MICHAEL MONZ, Modelling Clinical Decision Processes for Radiotherapy Planning	Section 7 STEFAN NICKEL, Planning Patient Transports in Hospitals - Insights and a Project Report
NU 10	Risk Management , chair: ANDREAS KLEINE, Conditional Value-at-Risk bei diskreten Zufallsvariablen	KLEINE, ANDREAS DIRK TASCHKE, Calculating Concentration-Sensitive Capital Charges with Conditional Value-at-Risk	Section 8 NILS-HOLGER NICKEL, Umsetzung von Muster-Portfolio-Strategien im Rentenfondsmangement
NU 03	Simulating Human Resources , chair: GRUNOW, MARTIN	PETER BRADL, Simulation in Management	Section 9 TORSTEN REINERS, SimTool - eine Plattform zum Design interaktiver Kurse im Bereich Simulation
NU 13	Quadratic and Nonsmooth Optimization , chair: PETER RECHT, Redundancies in Positive-Semidefinite Quadratic Programming	MOMBAUR, KATJA D. OLIVER STEIN, Constraint Qualifications for Non-Smooth Optimization Problems with Applications to Design Centering	Section 10 KATJA D. MOMBAUR, Stability Optimization of Periodic Processes with Discontinuities
NU 14	Scheduling I , chair: EULER, REINHARDT RALF BORNDÖRFER, Solving Duty Scheduling Problems in Public Transit	MARCUS OSWALD, Solving Coupled Task Problems to Optimality	Section 11 ADAM JANIAK, Scheduling Multiprocessor Tasks in the Hybrid Flow Shop
NU 15	Stability and Sensitivity , chair: ALEXANDER KOLOKOLOV, Stability Analysis of Some Integer Programming Algorithms	BRIEDEN, ANDREAS DIANA FANGHÄNEL, Regions of Stability for Nonlinear Discrete Optimization Problems	Section 11
IS 0011	Fuzzy Decision Support Systems , chair: ALEXANDRA SCHRÖLL, Dienstplanbewertung mit unscharfen Regeln	ROMMELFANGER, HEINRICH JAROSLAV RAMIK, Duality in Fuzzy Linear Programming Based on Fuzzy Relations	Section 13 MICHAEL DRAWE, Tourenplanung bei vager Nachfrage
AW 1016	Auctioning Systems , chair: GRAZIANO GALIANO, A Cumulative Genetic Algorithm to Solve Combinatorial Auction	LEHMANN-WAFFENSCHMIDT, MARCO J. PHILIPP REISS, On Participation and Bidding in Sequential Procurement Auctions	Section 15 SVEN DE VRIES, On Ascending Vickrey Auctions for Heterogeneous Objects
NU 06	Controlling und Produktmarkt-Wettbewerb , chair: EVELYN KORN, Zur Durchsetzung des Arm's Length Grundsatzes – Eine Win-Win Situation?	PIRCHEGGER, BARBARA BARBARA PIRCHEGGER, Choice of Managerial Performance Measures and Their Effect on Incentives for Takeovers	Section 16 HOLGER ASSEBURG, Relative Performancebewertung auf Oligopolmärkten
NU 02	Data and Knowledge Management , chair: RALPH SCHEUBREIN, Strukturierung von Wissensdatenbanken mit Hilfe der Metapher „Lernziel“	SCHUBREIN, RALPH XIAOSONG DING, Non-Linear Programming Solvers for Decision Analysis Support Systems	Section 17 BIRGIT PRÜMER, Eine induktive Lernstrategie zur Verarbeitung sicherer Regeln

Room	Parallel Sessions THU 13:30 – 15:30			
NU 12a	Dynamic Pricing , chair: THONEMANN, ULRICH 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 ULRICH THONEMANN, Coordination of Pricing and Inventory Control Across Products
NU 04	Coordination and Cooperation , chair: LEISTEN, RAINER 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 RICHARD PIBERNIK, ERIC SUCKY, Planungsmodelle zur Unterstützung eines zentralen und dezentralen Supply Chain Planning
NU 05	Production and Inventory Control , chair: SÜRIE, CHRISTOPHER 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 MOHSEN ELHAFSI, Assignment and Dynamic Loading of Chemical Products to Bulk Tankers
NU 09	Vehicle Routing and Scheduling: Theory , chair: CRAINIC, TEODOR	STEFAN IRNICH, Local Search for Vehicle Routing and Scheduling Problems (Part I): Neighborhoods	TÖRE GRÜNERT, Local Search for Vehicle Routing and Scheduling Problems (Part II): Search Techniques	Section 4 ANKE FABRI, On Dynamic Pickup and Delivery Vehicle Routing with Several Time Windows and Waiting Times
NU 16	Further Scheduling Topics 2 , chair: BUCHHOLZ, JENS 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
NU 01	Flow-Shop Scheduling , chair: KNUST, SIGRID 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 GRZEGORZ PAWLAK, Scheduling Tasks in a Two Machines Flow Shop with Transportation
NU 08	Marketing and Data Analysis 4 , chair: GAUL, WOLFGANG MAGDALENA MISSLER-BEHR, Kundensegmentierung auf Basis der logistischen Regression	YVONNE STAACK, 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 Automobilssektor	Section 6 KLAUS WEBER, Marketing Decision Support by Means of Stochastic Programming in a Fuzzy Environment
AW 1017	Public Health and Hospital Management , chair: KÜFER, KARL-HEINZ 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	Financial Markets , chair: DORFLEITNER, GREGOR 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 CHRISTIAN KLEIN, Der Einfluss von Handelssystemen auf die Volatilität eines Investments
NU 13	Numerical Methods of Nonlinear Optimization I , chair: STEIN, OLIVER 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 VICTOR IZHUTKIN, Parallel Multithreaded Technology for Solving Nonlinear Constraint Programming Problems
NU 14	Graph Theory and Layout , chair: GRUBER, GERALD JAN DEGENHARDT, On Maximal Edge-Disjoint Cycle Decompositions in Graphs	VICTOR LEPIN, Approximation Algorithms for Hypergraph Layout Problems		Section 11 YURY ORLOVICH, P_3 -dominable Graphs
NU 15	VLSI, Design and Steiner Trees , chair: JÜNGER, MICHAEL STEFAN VOSS, On the Relationship between Geodetic and Steiner Numbers of Graphs	ULRICH PFERSCHY, The Fractional Prize-Collecting Steiner Tree Problem	ALEXANDRA YAROSH, On Solving some Complex Design Problems using Discrete Optimization Models	Section 11 ANDRZEJ KOZIK, A Survey of Optimization Problems in Automatic Leaf-Cells Synthesis Techniques for VLSI Chips Production
IS 0011	Artificial Intelligence , chair: PODDIG, THORSTEN PETER KALETTA, Structural Optimization in Aircraft Engineering using Support Vector Machines for Design Classification	HOLGER ULMER, Optimization by Gaussian Processes Assisted Evolution Strategies	SREČKO DEVJAK, A Multi-Criteria Prioritization of Investment Projects of a Municipality under Linguistic Information	Section 13 FRIEDHELM KULMANN, Ein informationstheoretisches Modell assoziativer Strukturen - Anbieter und Sortimente in der Kundenwahrnehmung
NU 03	Econometrics and Mathematical Economics , chair: HELBING, DIRK HARTMUT KOGELSCHATZ, On the Leontief Inverse of a Beta Distributed Input Matrix	ULRICH BRANDT-POLLMANN, Time Lags in Capital Accumulation		Section 14
AW 1016	Nonlinear Dynamics and Games , chair: WOLFF, REINER THOMAS BADEGRUBER, New Aspects of Learning Speed and Convergence in the Santa Fe Artificial Stock Market	DAISUKE OYAMA, Monotone Methods for Equilibrium Selection under Perfect Foresight Dynamics	DAVID WING KAY YEUNG, Endogenous-Horizon Randomly Furcating Differential Games	Section 15 REINER WOLFF, A Characterization of Equitable Core Allocations in Cost-Sharing Games
NU 06	Steuerung von Investitionsentscheidungen , chair: FRIEDL, GUNTHER GUNTHER FRIEDL, Incentive Properties of Residual Income when there is an Option to Wait	ALFRED LUHMER, Investing in the Agent's Productivity	THOMAS PFEIFFER, Integrated Incentive Plans and Capital Budgeting	Section 16
NU 02	Software Agents , chair: SUHL, LEENA GIUSEPPE STECCA, A Multi-Agent Model to Improve SMEs E-Procurement Process	GIUSEPPE STECCA, A Negotiation Protocol for E-Procurement Process	PATRICK BARTELS, Financial Market Web Mining with the Software Agent PISA	Section 17

Room	Parallel Sessions FRI 08:30 – 10:00		
NU 04	Semiconductor Industry , chair: MÖNCH, LARS ILKA HABENICHT, Scheduling Jobs with Reentrant Flows Using Lagrangian Relaxation Techniques	DANIEL QUADT, An Integrated Lot-Sizing and Scheduling Approach for Flexible Flow-Lines	Section 3 ALEXANDER SCHÖMIG, On Experiences Using the Operating Curve Methodology for Controlling and Performance Evaluation of Semiconductor Chip Manufacturing
NU 05	Lotsizing , chair: SCHWINDT, CHRISTOPH JÖRN MEISSNER, Partitioning Heuristics for the Multi-Item Capacitated Lot Size Problem	UDO BUSCHER, An Economic Production Quantity-Model for a Multi-Stage Production System with Defective Items and Rework	Section 3 RAINER LEISTEN, Aspects of Coordinating Program Planning and Lot-Sizing in Production Planning
NU 16	Public Services and Transportation , chair: VOSS, STEFAN MARC STEINBACH, Operative Planning in Drinking Water Supply: A Case Study	LOTHAR DOHMEN, Ein mathematisches Simulationsmodell für die Abfuhrplanung in der kommunalen Abfallentsorgung	Section 4 JOACHIM R. DADUNA, Personal- und Fahrzeugeinsatzplanung in der Müllentsorgung
NU 09	Traffic , chair: HOMBERGER, JÖRG DAVID MAHALEL, Behavioural Aspects at Signalized Intersections during the Intergreen Period	PER OLOV LINDBERG, Convexification of the Traffic Equilibrium Problem with Social Marginal Cost Tolls	Section 4
NU 01	Further Scheduling Topics 3 , chair: MÖNCH, LARS MACIEJ LICHTENSTEIN, Optimal Resource Distribution in Scheduling Problems with Resource Dependent Setup and Processing Times	ADAM JANIAK, Scheduling Jobs with Time and Resource Dependent Processing Times	Section 5 LARS MÖNCH, A Decision Theory Approach for Scheduling Jobs with Unequal Ready Times and Incompatible Families on a Single Batch Processing Machine
NU 08	Marketing and Data Analysis 5 , chair: DECKER, REINHOLD LEA MICHAELIS, Using Choice Data to Model Preference Changes	VOLKER SCHLECHT, A New Algorithm for Fuzzy Two-Mode Clustering	Section 6
AW 1017	Energy and Environment 1 , chair: RENTZ, OTTO DOLORES QUEIRUGA, Standortplanung für Elektronikschrott-Recyclingunternehmen in Spanien	JUTTA GELDERMANN, Produktprogrammplanung in Unternehmen der Lackproduktion unter besonderer Berücksichtigung der Auswirkungen neuer umweltgesetzlicher Regelungen	Section 7 STEFAN PICKL, Management and Optimization of Environmental Data within Emission Trading Markets - VEREGISTER and TEMPI
NU 13	Numerical Methods of Nonlinear Optimization 2 , chair: GUGAT, MARTIN VICTOR IZHUTKIN, Methods for Correction of Solution Nonlinear Optimization Problem with Small Data Perturbations using Reduced Direction	ALAEDDIN MALEK, Optimal Design of Wide Flange Cross Sections Based on Newton-Gradient Projection Technique	Section 10
NU 14	Satisfiability and OCC , chair: KLAU, GUNNAR MIGUEL ANJOS, Solving the Satisfiability Problem Using Semidefinite Programming	ALEXANDER KOLOKOLOV, Analysis and Solving the Satisfiability Problem using L -partition	Section 11 VLADIMIR NAIDENKO, On Directional Convex Hulls
NU 15	Scheduling 2 , chair: AHR, DINO JÓZSEF BÉKÉSI, Scheduling Identical Coupled Tasks: An Exact Algorithm	TOMASZ KRYSIAK, Scheduling Jobs with a Stepwise Function of Change of Their Values	Section 11 SOFIANE OUSSÉDIK, OPL Studio, a Mathematical Modeling Environment, Technical Overview
NU 12a	Packing and Cutting , chair: BORTFELDT, ANDREAS GLEB BELOV, Number of Different Patterns and Open Stacks in One-Dimensional Stock Cutting	PEER GIEMSCH, Optimization Models for the Containership Stowage Problem	Section 11 ALEXANDER G. KOLPAKOV, Computational Geometry and Design of Control System for Smart Structures
NU 12	Queueing Systems 1 , chair: BÄUERLE, NICOLE HENK TIJMS, An Approximation for Waiting-Time Percentiles for the Finite-Capacity Multi-Server Queue	MANFRED BRANDT, On the Two-Class $M/M/1$ System under Preemptive Resume and Impatience of the Prioritized Customers	Section 12 ALFRED MÜLLER, A New Class of Lifetime Distributions: The M -class
IS 0011	Search Processes and Conditional Logic , chair: ROMMELFANGER, HEINRICH ELMAR REUCHER, Konditionale als Mittel zur Modellierung von Zeitformen		Section 13
NU 03	Decision Theory and Mathematical Economics , chair: FARKAS, ZOLTAN CONSTANTINE LOUCOPOULOS, A New Mathematical Programming Approach for the Minimization of Misclassification Costs	TAK SUM CHENG, Infinite-Horizon Stochastic Control for Problems with Randomly Fluctuating Payoffs	Section 14
NU 06	Planungs- und Kontrollprobleme , chair: LUHMER, ALFRED RALF BAUER, On the Decision-Oriented Assignment of Common Cost	SVEN BEHRENS, Zur Manipulierbarkeit von Ergebnissen der Data Envelopment Analysis	Section 16 MAGDALENA MISSLER-BEHR, Ein Stichprobenmodell zur Retourenkontrolle

Room	Parallel Sessions FRI 13:30 – 15:30			
NU 04	Electronics Industry , chair: SCHÖMIG, ALEXANDER LARS MÖNCH, Scheduling Jobs with Incompatible Families on a Single Batch Processing Machine Using Tabu Search	ROLAND MARTIN, A Modeling Approach for the Automated Manufacturing of PC Boards	JENS ZIMMERMANN, Anwendung von Verfahren des maschinellen Lernens auf das Scheduling von Jobs auf Batchmaschinen in der Halbleiterindustrie	MARTIN SCHLEUSENER, Leistungsabstimmung von Produktionslinien in der Elektronikmontage Section 3
NU 05	Order Picking and Loading , chair: SCHNEIDER, TORSTEN KARL DÖRNER, Artikelanordnung bei Mann-zur-Ware-Kommissionierung	TORSTEN SCHNEIDER, A New TSP-Based Heuristic Approach to Load Balancing in a Conveyor Flow Shop	STEFAN BOCK, Real-Time Control of Transportation Network	Section 3
NU 16	Hazardous Material Transportation and Services , chair: PANKRATZ, GISELHER GRAZIANO GALIANO, A Meta-heuristic Approach for Hazardous Materials Transportation	WINFRIED BRECHT, Optimale Allokation von Aufgaben und Ressourcen in Servicebereichen	PER-AKE ANDERSSON, Multi-Year Planning of Maintenance Operations of Public Roads	Section 4
NU 09	Issues in Public and Industrial Transportation , chair: REINHOLZ, UWE ZIMMERMANN, Optimal Shunting	ARMIN FÜGENSCHUH, Simultaneous Optimization of School Starting Times and Public Bus Services	ANDREAS MARC PFETSCH, Strategic Planning in Public Transport	STEFAN GNUTZMANN, Standortplanung der Ticketautomaten zur elektronischen LKW-Maut Section 4
NU 01	Further Scheduling Topics 4 , chair: DREXL, ANDREAS VINCENT GUIGUES, Application of Robust Counterpart Technique to Production Management	VAN HOAI TRAN, A Parallel Approach to the Pricing Step in Crew Scheduling Problems		Section 5
AW 1017	Energy and Environment 2 , chair: LIESEGANG, GÜNTHER D. WOLF FICHTNER, Entwicklung und Anwendung einer mehrstufigen Methodik zur Analyse betriebsübergreifender Energieversorgungskonzepte	MAGNUS FRÖHLING, Mass- and Energy-Flow Orientated Master Production Scheduling		Section 7
NU 10	Portfolio Selection , chair: KRAFT, HOLGER 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 Section 8
NU 13	Optimal Control , chair: IZHUTKIN, VICTOR MARTIN GUGAT, Problems of Optimal Control in Flood Management	ANDREAS SCHÄFER, A Fast Optimal Control Algorithm with Application to Chemical Engineering	GIDEON WEISS, Fluid Approach to Control of Multiclass Queuing Networks	Section 10
NU 14	ILP Theory and Large Instances , chair: JUNGER, MICHAEL MARCO LÜBBECKE, On Compact Formulations for Integer Programs Solved by Column Generation	MARTINA STUBER, Combining Mathematical Programming and Constraint Logic Programming	UWE SUHL, Improved Supernode Processing for Integer Programming	Section 11
NU 15	Facility Location , chair: BÉKÉSI, SIMON GÖRTZ, Solving Capacitated Facility Location Problems by Means of Branch-and-Price-and-Cut	JÓZSEF DMITRY IVANENKO, Lower and Upper Bounds for the Bilevel Capacitated Facility Location Problem	SEBASTIAN VELTEN, Heuristic Solution Methods for a Dynamic Location Model with Inventory	Section 11
NU 12a	Routing and Delivery , chair: OSWALD, MARCUS DINO AHR, Solving the Minimum k -Chinese Postman Problem to Optimality	DIRK OLIVER THEIS, Separation of R -Odd Cut Constraints for Routing Problems	LIDIYA ZAOZERSKAYA, A Branch and Bound Algorithm for Solving the Concave Cost Supply Management Problem	Section 11
NU 12	Queueing Systems 2 , chair: BRANDT, MANFRED MAIKE SCHWARZ, On a Queueing System with Inventory Management	ROMAN FREITAG, Steady State Probabilities for Queues with Total Desasters and Poisson Input Streams	JOSEF WEICHBOLD, Optimal Stochastic Scheduling of Two Interconnected Queues	Section 12
NU 03	Decision Theory and Econometrics , chair: KRATSCHMER, VOLKER ZOLTAN FARKAS, On an Optimum Invariance Property of Synthesizing Decisions by using Method "Optimization with Minimal Information"	YUSUF SAIT TURKAN, A Solution Proposition For The Decision Problem Defining The New Routes of Istanbul Hydrofoils	HSUAN-SHIH LEE, Aggregation of Comparison Matrices in AHP under Group Decision Making Environment	Section 14