Room	Parallel Sessions WED 13:30 – 15:30			
NU 12a	**Praxis des Revenue Management**, chair: Klein, Robert			Section 1
	Rüdiger Thiel, Low Cost Carrier - ein neues Feld für Revenue Management	Robert Dörband, Revenue Management in der Gaswirtschaft	Konstantinos Papadopoulos, Herausforderungen für das Ertragsmanagement im kombinierten Güterverkehr	Robert Klein, Gerhard Wäscher, Revenue Management und Dynamic Pricing im Rahmen der GOR (Diskussion)
AW 1017	**Planning UMTS Network**, chair: Martin, Alexander			Section 2
	Erik R. Fledderus, Snapshots for Planning and Evaluation of Cellular Networks	Andreas Eisenblätter, Models for UMTS Radio Network Planning	Daniel Junglas, Optimization Methods for UMTS Radio Network Planning	Mark Ziegelmann, Optimization for UMTS Radio Access Network Planning
NU 04	**Process Industry**, chair: Quadt, Daniel			Section 3
	Christopher Sürie, Campaign Planning with Time-Indexed Model Formulations		Peter Schoner, Ein heuristisches Verfahren auf Basis von Prioritätsregeln zur Produktionsplanung in der Prozessindustrie	Frank Kroll, Integrated Procurement and Production Optimization in the Meat Processing Industry
NU 05	**Supply Chain Inventories**, chair: Minner, Stephan			Section 3
	Kai Hoberg, Analyzing the Behavior of Supply Chains in Response to Stationary and Non-Stationary Demand: A Control Theoretic Approach	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	Andrea Zillus, Waiting Time Probabilities for Customer Orders in a Supply Chain
NU 09	**Vehicle Routing and Scheduling: Practice**, chair: Daduna, Joachim			Section 4
	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	Gerriet Reents, Vermittlung von Fahrgemeinschaften betrachtet als Vehicle Routing Problem
NU 01	**Further Scheduling Topics 1**, chair: Brucker, Peter			Section 5
	Peter Brucker, Decomposition of Railway Scheduling Problems	Thomas Elendner, A Lagr. Heuristic for the Weighted Job Interval Scheduling Problem	Vladimir Kotov, Semi On-Line Problems on Identical Machines	
NU 08	**Marketing and Data Analysis 1**, chair: Wagner, Udo			Section 6
	Daniel Baier, Linking Conjoint Analysis and Quality Function Deployment for Optimal Product Design	Bernd Stauss, Product Bundling as a Marketing Application	Patrick Thoma, Using Multidimensional Scaling in Recommender Systems	
NU 10	**Bank Management**, chair: Breitner, Michael H.			Section 8
	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	
NU 13	**Theory of Linear and Nonlinear Optimization**, chair: Recht, Peter			Section 10
	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	Hinderk Buss, Relaxation Schemes for Constrained Variational Problems in Dual Formulation
NU 14	**Cones, Clustering and Stable Sets**, chair: Gritzmann, Peter			Section 11
	Leonid Khachiyan, 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	Reinhardt Euler, Solving Weighted Stable Set Problems by the Simplex Method
NU 15	**Genetic and Interactive Algorithms**, chair: Kolokolov, Alexander			Section 11
	Gunnar W. Klau, Human-Guided Search: Survey and Recent Results	Andreas Bortfeldt, Ein genetischer Algorithmus für das zweidimensionale Strip-Packing-Problem	Frank Kubitschek, Genetic Algorithm Fitness Functions for the Nesting Problem	
NU 12	**Portfolio-Optimization**, chair: Rieder, Ulrich			Section 12
	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	Vadim Arkin, Optimal Stopping Approach to Investment Timing Problem
IS 0011	**Neural Networks**, chair: Spengler, Thomas			Section 13
	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	Hans-Georg Zimmermann, Cognitive Agents with Utility Functions
NU 03	**Statistics and Econometrics**, chair: Kogelschatz, Hartmut			Section 14
	Volker Krätschmer, Least Squares Estimation in Linear Regression Models with Vague Concepts	Carmen Brosche, Testen kausaler Effekte	Silvia Vogel, Stochastic Optimization and Statistical Estimates	
NU 06	**Anreizprobleme mehrerer Agenten sowie Unternehmensbewertung und Kapitalkosten**, chair: Korn, Evelyn			Section 16
	Michael Krapp, Zur Manipulationsresistenz kollektiver Entscheidungsregeln	Jan Daugart, Unternehmenssteuerung mit undifferenzierten Anreizsystemen	Jörg Stephan, Matthias Weiss, Unternehmensbewertung bei atmender Verschuldung und Insolvenzrisiko	
NU 02	**Decision Support Systems**, chair: Trinkaus, Hans L.			Section 17
	Hans L. Trinkaus, A Knowledge Box for Dynamic Multicriteria Decision Support	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	**Dissertation Awards**, chair: Günther, Hans-Otto			
	Matthias Köppe, Exact Primal Algorithms for General Integer and Mixed-Integer Linear Programs	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			Section 2
	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		Olga Popova, Optimization of the Economical Decisions on the Basis of Reflexive Information Technology – VINTSELLING
NU 04	**Network Design and Operations**, chair: Melo, Teresa			Section 3
	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	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.			Section 3
	Peer Kleinau, Deriving Inventory Control Policies for Periodic Review with Genetic Programming	Stefan Minner, Multi-Product Replenishment Strategies under a Joint Capacity Constraint	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			Section 4
	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	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			Section 5
	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	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			Section 6
	Reinhold Decker, Identifying Patterns in Buying Behavior by Means of Growing Neural Gas Network	Christian Bomhardt, Web Robot Detection	Nadine S. Schmidt-Mänz, Measurement of Online Visibility	
NU 10	**Financial Engineering**, chair: Branger, Nicole			Section 8
	Jörg Doege, Using Financial Engineering for the Valuation of Operational Flexibility	Nicole Branger, Tractable Hedging – An Implementation of Robust Hedging Strategies	Franz Nelissen, Mathematical Optimization in Finance: Closing the Gap	
AW 1016	**Simulation Software and Applications**, chair: Günther, Hans-Otto			Section 9
	Martin Grunow, Konfiguration von Anlagen der Elektronikmontage mit Hilfe objektorientierter Simulation	Horst Zisgen, Integrierte Simulation mittels EPOS	Ashraf A. Gouda, New Sampling Techniques and Variance Reduction Monte Carlo Simulation Alg. for Dirichlet Distr.	
NU 13	**Multiobjective Optimization**, chair: Dempe, Stephan			Section 10
	Kristin Winkler, On Geoffrions Proper Efficiency in $C(T)$	Johannes Jahn, Connections between Semidefinite Programming and Vector Optimization	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			Section 11
	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	Vitali Demidenko, The Quadratic Assignment Problem: Reaching the Optimal Solution using Pairwise Permutation	
NU 15	**Hamilton Cycle and TSP**, chair: Borndörfer, Ralf			Section 11
	Klaus M. Wenger, Small Instance Relaxations for the Traveling Salesman Problem	Istvan Hernadvolgyi, Solving the Sequential Ordering Problem with Automatically Generated Lower Bounds	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			Section 12
	Jitka Dupacova, Stochastic Programs with Decision-Dependent Probability Distributions	Andreas Eichhorn, Stochastic Programs and Coherent Risk Measures: Stability and Decomposition Approaches	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			Section 13
	Sebastian Beck, Ein entscheidungstheoretischer Ansatz zur Bewertung von Fuzzy-Regeln	Siegfried Guttenberger, Die Auswahl von Produktionsmaschinen mit Hilfe eines Fuzzy-Entscheidungsunterstützungssystems	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			Section 16
	Christian Hofmann, Gestaltung von Erfolgsrechnungen zur Steuerung langfristiger Projekte	Jens Robert Schöndube, Performancemessung und Informationsgehalt in einer Agency-Beziehung mit beschränkter Selbstbindungskraft	Christian Lukas, Executive Pay: Prior Successes and Future Incentives	
NU 02	**Internet based Learning**, chair: Reiners, Torsten			Section 17
	Victor Izhutkin, Interactively Learning OR Methods with ActiveMath	Torsten Reiners, Die adaptive virtuelle Lernumgebung SMARTFRAME		
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		Section 1
	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	Michael Müller-Bungart, Network Revenue Management: Some Issues on Upper and Lower Bounds
NU 04	**Cooperative Lotsizing**, chair: Buscher, Udo		Section 3
	Gregor Schulte, Unternehmensübergreifende Losgrößenplanung mit dem Verfahren nach Blackburn-Millen	Sven Behrens, Effizienzuntersuchungen in Losgrößenmodellen	Haldun Sural, Coordination in Economic Production Quantities
NU 05	**Remanufacturing**, chair: Kiesmüller, Gudrun		Section 3
	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	Rainer Kleber, A Dynamic Model for Choosing the Optimal Technology in the Context of Reverse Logistics
NU 09	**Crew and Fleet Planning**, chair: Irnich, Stefan		Section 4
	Hamid Kharraziha, Large Scale Crew-Rostering	Rastislav Galia, Column Generation for Crew Pairing	Natalia Kliewer, Mehrdepot-Umlaufplanung für ÖPNV-Betriebe
NU 16	**Crew/Staff Scheduling**, chair: Mattfeld, Dirk C.		Section 5
	Dirk Christian Mattfeld, Task Scheduling under Gang Constraints	Christoph Stark, Scheduling Regular and Temporary Employees with Qualifications in a Casino	Matthias Ehrgott, Optimization of Cost and Robustness in Airline Crew Scheduling
NU 01	**Single-Machine Scheduling**, chair: Kanet, John		Section 5
	Valery Gordon, Single Machine Scheduling with Precedence Constraints and Due Date Assignment	John Kanet, Precedence Theorems for One-Machine Weighted Tardiness	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: Hildebrandt, Lutz		Section 6
	Udo Wagner, Ein einfaches Modell zur Bestimmung des Markenwechselverhaltens auf Konsumgütermärkten	Lana Poukliakova, Modeling Brand Loyalty	Sören W. Scholz, Konzeption eines intelligenten Systems zur Überwachung unternehmensrelevanter Marktentwicklungen
AW 1017	**Clinical Radio Therapy Planning**, chair: Flessa, Steffen		Section 7
	Karl-Heinz Küfer, A Multiple-Objective Optimizer for Clinical Radiation Therapy Planning	Michael Monz, Modelling Clinical Decision Processes for Radiotherapy Planning	Stefan Nickel, Planning Patient Transports in Hospitals - Insights and a Project Report
NU 10	**Risk Management**, chair: Kleine, Andreas		Section 8
	Andreas Kleine, Conditional Value-at-Risk bei diskreten Zufallsvariablen	Dirk Tasche, Calculating Concentration-Sensitive Capital Charges with Conditional Value-at-Risk	Nils-Holger Nickel, Umsetzung von Muster-Portfolio-Strategien im Rentenfondsmanagement
NU 03	**Simulating Human Resources**, chair: Grunow, Martin		Section 9
		Peter Bradl, Simulation in Management	Torsten Reiners, SimTool - eine Plattform zum Design interaktiver Kurse im Bereich Simulation
NU 13	**Quadratic and Nonsmooth Optimization**, chair: Mombaur, Katja D.		Section 10
	Peter Recht, Redundancies in Positive-Semidefinite Quadratic Programming	Oliver Stein, Constraint Qualifications for Non-Smooth Optimization Problems with Applications to Design Centering	Katja D. Mombaur, Stability Optimization of Periodic Processes with Discontinuities
NU 14	**Scheduling 1**, chair: Euler, Reinhardt		Section 11
	Ralf Borndörfer, Solving Duty Scheduling Problems in Public Transit	Marcus Oswald, Solving Coupled Task Problems to Optimality	Adam Janiak, Scheduling Multiprocessor Tasks in the Hybrid Flow Shop
NU 15	**Stability and Sensitivity**, chair: Brieden, Andreas		Section 11
	Alexander Kolokolov, Stability Analysis of Some Integer Programming Algorithms	Diana Fanghänel, Regions of Stability for Nonlinear Discrete Optimization Problems	
IS 0011	**Fuzzy Decision Support Systems**, chair: Rommelfanger, Heinrich		Section 13
	Alexandra Schroll, Dienstplanbewertung mit unscharfen Regeln	Jaroslav Ramik, Duality in Fuzzy Linear Programming Based on Fuzzy Relations	Michael Drawe, Tourenplanung bei vager Nachfrage
AW 1016	**Auctioning Systems**, chair: Lehmann-Waffenschmidt, Marco		Section 15
	Graziano Galiano, A Cumulative Genetic Algorithm to Solve Combinatorial Auction	J. Philipp Reiss, On Participation and Bidding in Sequential Procurement Auctions	Sven de Vries, On Ascending Vickrey Auctions for Heterogeneous Objects
NU 06	**Controlling und Produktmarkt-Wettbewerb**, chair: Pirchegger, Barbara		Section 16
	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	Holger Asseburg, Relative Performancebewertung auf Oligopolmärkten
NU 02	**Data and Knowledge Management**, chair: Scheubrein, Ralph		Section 17
	Ralph Scheubrein, Strukturierung von Wissensdatenbanken mit Hilfe der Metapher „Lernziel“	Xiaosong Ding, Non-Linear Programming Solvers for Decision Analysis Support Systems	Birgit Prümer, Eine induktive Lernstrategie zur Verarbeitung sicherer Regeln

Room	Parallel Sessions THU 13:30 – 15:30			
NU 12a	**Dynamic Pricing**, chair: Thonemann, Ulrich			Section 1
	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	Ulrich Thonemann, Coordination of Pricing and Inventory Control Across Products
NU 04	**Coordination and Cooperation**, chair: Leisten, Rainer			Section 3
	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	Richard Pibernik, Eric Sucky, Planungsmodelle zur Unterstützung eines zentralen und dezentralen Supply Chain Planning
NU 05	**Production and Inventory Control**, chair: Sürie, Christopher			Section 3
	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	Mohsen Elhafsi, Assignment and Dynamic Loading of Chemical Products to Bulk Tankers
NU 09	**Vehicle Routing and Scheduling: Theory**, chair: Crainic, Teodor			Section 4
		Stefan Irnich, Local Search for Vehicle Routing and Scheduling Problems (Part I): Neighborhoods	Tore Grünert, Local Search for Vehicle Routing and Scheduling Problems (Part II): Search Techniques	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			Section 5
	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	
NU 01	**Flow-Shop Scheduling**, chair: Knust, Sigrid			Section 5
	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	Grzegorz Pawlak, Scheduling Tasks in a Two Machines Flow Shop with Transportation
NU 08	**Marketing and Data Analysis 4**, chair: Gaul, Wolfgang			Section 6
	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 Automobilsektor	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			Section 7
	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?	
NU 10	**Financial Markets**, chair: Dorfleitner, Gregor			Section 8
	Claudia Fink, Modellanalytische Preis-Gleichgewichtsbeziehungen auf Kassa- und Terminmärkten	Gregor Dorfleitner, How Short-Termed is the Trading Behavior in German Futures Markets?	Roland Mestel, Trading Volume and Stock Return Volatility	Christian Klein, Der Einfluss von Handelssystemen auf die Volatilität eines Investments
NU 13	**Numerical Methods of Nonlinear Optimization 1**, chair: Stein, Oliver			Section 10
	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	Victor Izhutkin, Parallel Multimethod Technology for Solving Nonlinear Constraint Programming Problems
NU 14	**Graph Theory and Layout**, chair: Gruber, Gerald			Section 11
	Jan Degenhardt, On Maximal Edge-Disjoint Cycle Decompositions in Graphs	Victor Lepin, Approximation Algorithms for Hypergraph Layout Problems		Yury Orlovich, P_3-dominable Graphs
NU 15	**VLSI, Design and Steiner Trees**, chair: Jünger, Michael			Section 11
	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	Andrzej Kozik, A Survey of Optimization Problems in Automatic Leaf-Cells Synthesis Techniques for VLSI Chips Production
IS 0011	**Artificial Intelligence**, chair: Poddig, Thorsten			Section 13
	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	Friedhelm Kulmann, Ein informationstheoretisches Modell assoziativer Strukturen - Anbieter und Sortimente in der Kundenwahrnehmung
NU 03	**Econometrics and Mathematical Economics**, chair: Helbing, Dirk			Section 14
	Hartmut Kogelschatz, On the Leontief Inverse of a Beta Distributed Input Matrix	Ulrich Brandt-Pollmann, Time Lags in Capital Accumulation		
AW 1016	**Nonlinear Dynamics and Games**, chair: Wolff, Reiner			Section 15
	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	Reiner Wolff, A Characterization of Equitable Core Allocations in Cost-Sharing Games
NU 06	**Steuerung von Investitionsentscheidungen**, chair: Friedl, Gunther			Section 16
	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	
NU 02	**Software Agents**, chair: Suhl, Leena			Section 17
	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	

Room	Parallel Sessions FRI 08:30 – 10:00		
NU 04	**Semiconductor Industry**, chair: Mönch, Lars		Section 3
	Ilka Habenicht, Scheduling Jobs with Reentrant Flows Using Lagrangian Relaxation Techniques	Daniel Quadt, An Integrated Lot-Sizing and Scheduling Approach for Flexible Flow-Lines	Alexander Schömig, On Experiences Using the Operating Curve Methodology for Controlling and Performance Evaluation of Semiconductor Chip Manufacturing
NU 05	**Lotsizing**, chair: Schwindt, Christoph		Section 3
	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	Rainer Leisten, Aspects of Coordinating Program Planning and Lot-Sizing in Production Planning
NU 16	**Public Services and Transportation**, chair: Voss, Stefan		Section 4
	Marc Steinbach, Operative Planning in Drinking Water Supply: A Case Study	Lothar Dohmen, Ein mathematisches Simulationsmodell für die Abfuhrplanung in der kommunalen Abfallentsorgung	Joachim R. Daduna, Personal- und Fahrzeugeinsatzplanung in der Müllentsorgung
NU 09	**Traffic**, chair: Homberger, Jörg		Section 4
	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	
NU 01	**Further Scheduling Topics 3**, chair: Mönch, Lars		Section 5
	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	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		Section 6
	Lea Michaelis, Using Choice Data to Model Preference Changes	Volker Schlecht, A New Algorithm for Fuzzy Two-Mode Clustering	
AW 1017	**Energy and Environment 1**, chair: Rentz, Otto		Section 7
	Dolores Queiruga, Standortplanung für Elektronikschrott-Recyclingunternehmen in Spanien	Jutta Geldermann, Produktprogrammplanung in Unternehmen der Lackproduktion unter besonderer Berücksichtigung der Auswirkungen neuer umweltgesetzlicher Regelungen	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		Section 10
	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	
NU 14	**Satisfiability and OCC**, chair: Klau, Gunnar		Section 11
	Miguel Anjos, Solving the Satisfiability Problem Using Semidefinite Programming	Alexander Kolokolov, Analysis and Solving the Satisfiability Problem using L-partition	Vladimir Naidenko, On Directional Convex Hulls
NU 15	**Scheduling 2**, chair: Ahr, Dino		Section 11
	József Békési, Scheduling Identical Coupled Tasks: An Exact Algorithm	Tomasz Krysiak, Scheduling Jobs with a Stepwise Function of Change of Their Values	Sofiane Oussedik, OPL Studio, a Mathematical Modeling Environment, Technical Overview
NU 12a	**Packing and Cutting**, chair: Bortfeldt, Andreas		Section 11
	Gleb Belov, Number of Different Patterns and Open Stacks in One-Dimensional Stock Cutting	Peer Giemsch, Optimization Models for the Containership Stowage Problem	Alexander G. Kolpakov, Computational Geometry and Design of Control System for Smart Structures
NU 12	**Queueing Systems 1**, chair: Bäuerle, Nicole		Section 12
	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	Alfred Müller, A New Class of Lifetime Distributions: The M-class
IS 0011	**Search Processes and Conditional Logic**, chair: Rommelfanger, Heinrich		Section 13
	Elmar Reucher, Konditionale als Mittel zur Modellierung von Zeitformen		
NU 03	**Decision Theory and Mathematical Economics**, chair: Farkas, Zoltan		Section 14
	Constantine Loucopoulos, A New Mathematical Programming Approach for the Minimization of Misclassification Costs	Tak Sum Cheng, Infinite-Horizon Stochastic Control for Problems with Randomly Furcating Payoffs	
NU 06	**Planungs- und Kontrollprobleme**, chair: Luhmer, Alfred		Section 16
	Ralf Bauer, On the Decision-Oriented Assignment of Common Cost	Sven Behrens, Zur Manipulierbarkeit von Ergebnissen der Data Envelopment Analysis	Magdalena Missler-Behr, Ein Stichprobenmodell zur Retourenkontrolle

Room	Parallel Sessions FRI 13:30 – 15:30			
NU 04	**Electronics Industry**, chair: Schömig, Alexander			Section 3
	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
NU 05	**Order Picking and Loading**, chair: Schneider, Torsten			Section 3
	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	
NU 16	**Hazardous Material Transportation and Services**, chair: Pankratz, Giselher			Section 4
	Graziano Galiano, A Metaheuristic Approach for Hazardous Materials Transportation	Winfried Brecht, Optimale Allokation von Aufgaben und Ressourcen in Servicebereichen	Per-Åke Andersson, Multi-Year Planning of Maintenance Operations of Public Roads	
NU 09	**Issues in Public and Industrial Transportation**, chair: Reinholz, Andreas			Section 4
	Uwe Zimmermann, Optimal Shunting	Armin Fügenschuh, Simultaneous Optimization of School Starting Times and Public Bus Services	Marc Pfetsch, Strategic Planning in Public Transport	Stefan Gnutzmann, Standortplanung der Ticketautomaten zur elektronischen LKW-Maut
NU 01	**Further Scheduling Topics 4**, chair: Drexl, Andreas			Section 5
	Vincent Guigues, Application of Robust Counterpart Technique to Production Management	Van Hoai Tran, A Parallel Approach to the Pricing Step in Crew Scheduling Problems		
AW 1017	**Energy and Environment 2**, chair: Liesegang, Günther D.			Section 7
	Wolf Fichtner, Entwicklung und Anwendung einer mehrstufigen Methodik zur Analyse betriebsübergreifender Energieversorgungskonzepte	Magnus Fröhling, Mass- and Energy-Flow Orientated Master Production Scheduling		
NU 10	**Portfolio Selection**, chair: Kraft, Holger			Section 8
	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
NU 13	**Optimal Control**, chair: Izhutkin, Victor			Section 10
	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 Queueing Networks	
NU 14	**ILP Theory and Large Instances**, chair: Jünger, Michael			Section 11
	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	
NU 15	**Facility Location**, chair: Békési, József			Section 11
	Simon Görtz, Solving Capacitated Facility Location Problems by Means of Branch-and-Price-and-Cut	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	
NU 12a	**Routing and Delivery**, chair: Oswald, Marcus			Section 11
	Dino Ahr, Solving the Min-Max 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	
NU 12	**Queueing Systems 2**, chair: Brandt, Manfred			Section 12
	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	
NU 03	**Decision Theory and Econometrics**, chair: Kratschmer, Volker			Section 14
	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	