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	Opening Addresses and Awards	**Monma** Telecommunications and OR: New Challenges *(p. 42)*					**Wegner** Die DDR im wirtschaftlichen Rückblick *(p. 14)*	**Wild** Von der Planwirtschaft zur Marktwirtschaft: Umstrukturierung in Ostdeutschland *(p. 14)*
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			Golshtein New Decomposition Method for Linear Programming Problems *(p. 46)*	**Brimkov** A New Method in Linear Programming *(p. 46)*	**Frauendorfer** On The Degree of Decentralization in Large-Scale Linear Programming *(p. 46)*			
H104			**S2: Non-Linear Programming Chair: Griewank**				**S2: Semiplenary Chair: Moré**	**S1: Semiplenary Chair: Suhl**
			Altman A Quadratic Programming Solver Using an Interior Point Method *(p. 50)*	**Bomze** A Finite Algorithm for Solving General Quadratic Problems *(p. 50)*	**Kaltinska** A Class of Quadratic Transportation Problems *(p. 51)*	**Mraz** Finiteness of Modified Beale's Algorithm for Solving Nonconvex Quadratic... *(p. 52)*	**Shanno** Interior Point Methods for Nonlinear Programming and Nonlinear Complementarity *(p. 52)*	**Nesterov** Long-Step Strategies in Interior-Point Potential Reduction Methods *(p. 47)*
H107			**S2: Non-Linear Programming Chair: Tichatschke**					
			Páles Generalized Hessian for $C^{1,1}$ Functions in Infinite Dimensional Spaces *(p. 50)*	**Henrion** Topological Properties of the Approximate Subdifferential *(p. 51)*	**Juhnke** Minimal Ellipsoids and Semi-Infinite Optimization *(p. 51)*			

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H110			**S4: Discrete Optimization Chair: Rubinstein**					
			Rubinstein The Generalized Problem of Center Location (*p. 75*)	**Kolokolov** Some L-Class Enumeration Algorithms for Simple Plant Location Problem (*p. 75*)	**Hudec** Matrices with Some Forbidden Configurations (*p. 75*)			
MA041			**S5: Graph Algorithms Chair: Rote**				**S16: Semiplenary Chair: Jarke**	
			Scheffler A Practical Linear Time Algorithm for Disjoint Paths in Graphs with Bounded... (*p. 91*)	**Compagner** Bounds for the Edge-Disjoint Steiner Problem in Graphs (*p. 91*)	**Gustedt** The General Two-Path Problem in time $\mathbf{O}(\mathbf{m} \log \mathbf{n})$ (*p. 91*)	**Moll** Complexity of the Inverse Shortest Path Problem (*p. 92*)	**Fox** The Role of Logic in Enterprise Modelling: Formalizing Activity, Cost and... (*p. 199*)	
MA309			**S6: Scheduling Chair: Kroon**					
			Ventura A Lagrangian Relaxation Method for the Minimum Completion Time Variance Scheduling... (*p. 98*)	**Blondeel** Solving Scheduling Problems with Mathematical Programming and Constraint... (*p. 98*)	**Latz** A Cutting Plane Approach for the Job-Shop-Scheduling Problem (*p. 99*)	**Kovalyov** Single Machine Batch Scheduling to Minimize the Total Weighted Late Work (*p. 100*)		
MA043			**S6: Scheduling Chair: Junginger**					
			Katai On the Pipeless Chemical Plants (*p. 98*)	**Schmidt** Office Scheduling (*p. 99*)	**Werners** Modellierung von Verwaltungsabläufen (*p. 100*)	**Meusel** Optimization of the Placement-Time on a Circuit Board (*p. 100*)		

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H2032			**S7: Transportation and Traffic** **Chair: Daduna**					
			Zimmermann Optimal Line Planning for Railway Systems (*p. 115*)	**Goczyla** Finding Optimal Route in a Railway Network (*p. 115*)	**Murgu** A Neural Networks Implementation of Partial Linearization Algorithms for... (*p. 116*)	**Laut** Dienstplanoptimierung mit evolutionären Algorithmen (*p. 116*)		
MA005			**S8: Control Theory and Dynamical Systems** **Chair: Klötzler**					
			Hoffmann Sufficient Conditions of Optimality for Optimal Control Problems Governed... (*p. 126*)	**Weber** On Structural Stability in Nonlinear Optimization and Control (*p. 126*)	**Maurer** Applications of Sensitivity Analysis for Parametric Control Problems with... (*p. 127*)	**Arutyunow** Degenerated Quadratic Forms in Calculus of Variations (*p. 127*)		
H1012			**S9: Stochastic Models in OR** **Chair: Wessels**				**S9: Semiplenary** **Chair: Brandt**	**S20: Semiplenary** **Chair: Inderfurth**
			Adan Analysing $GI\|E_r\|1$ Queues (*p. 136*)	**van Eenige** An $M\|Ph\|1$ Queueing System Subject to Breakdowns with Non-Homogeneous... (*p. 136*)	**Nobel** Perturbation Analysis of the Mean Waiting Time in the $M^x\|G\|l$ Queue (*p. 137*)	**Daduna** On the Sojourn Time Problem in Discrete-Time Tandem Networks (*p. 137*)	**Wessels** Explicit Solutions for Queueing Problems: An Overview of Methods and Results (*p. 137*)	**Axsäter** Ordering Systems for Multi-Level Inventory Control (*p. 226*)
H3010			**S10: Mathematical Economics and Game Theory** **Chair: Leopold-Wildburger**					
			Yanovskaya Set-valued analogues of the prenucleolus for cooperative TU games (*p. 149*)	**Kuipers** Minimum Cost Forest Games (*p. 149*)	**Slastnikov** Equilibrium Model of Transition from Centralized Economy to Competitive Market (*p. 150*)	**Campisi** Noncooperative Firms R&D Strategies in an Oligopolistic Industry (*p. 150*)		

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			Gründl Versicherung und Moralisches Risiko im Kapitalmarkt-gleichgewicht *(p. 159)*	**Guhe** Risikomessung und Prämienkalku-lation *(p. 159)*	**Korzeniewski** Application of Markov Chains to Health Insurance *(p. 159)*	**Van Wouwe** Stochastic Multiple Life Description for Dependent Lines *(p. 160)*		
H2013			**S12: Production** **Chair: Stadtler**					
			Pesch Efficient Facility Layout Planning *(p. 168)*	**Dankert** Integration of a Stochastic Process into a Heuristic Optimization Method... *(p. 168)*	**Haase** Capacitated Lot-Sizing with Sequence Dependent Setup Costs *(p. 168)*	**Jammernegg** IIM - A Hypermedia System for the Evaluation of Integrated Manufacturing Systems *(p. 169)*		
H2053			**S13: Logistics** **Chair: Isermann**					
			Stähly An Overview on some Models for Locational Decisions and their Implementa-tions *(p. 181)*	**Wentges** Weighted Dantzig-Wolfe-Decomposition for Mixed-Integer Programming *(p. 181)*	**Klose** A Comparison of the Erlenkotter Algorithm and a Branch and Bound Algorithm... *(p. 181)*	**Tüshaus** Approximating Transportation Costs in Location Problems: Some Open Questions *(p. 182)*		
H2033			**S15: Applied Economics** **Chair: Edler**					
			Voogt A Linear Programming Model for Calculating Green National Incomes *(p. 194)*	**Siebe** On the Identification of Important Intersectoral Transactions *(p. 194)*	**Katayama** Limit Price and Demand of Exhaustible Resource *(p. 194)*	**Conrad** Tradable CO_2 Emission Permits Versus CO_2 Taxes: Economic Impacts and Costs... *(p. 195)*		

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MA144			**S16: Interfaces with Computer Science** **Chair: Noltemeier**					
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MA141			**S18: Energy Supply** **Chair: Petritsch**					
			Baumann ÖGOR-Preisträger: Kraftwerksein-satzplanung mit gemischt ganzzahliger linearer... (*p. 208*)	**Römisch** A Dual Method for the Unit Commitment Problem (*p. 208*)	**Nordanlycke** Economical Security Enhancement in an Interconnected Power System (*p. 208*)	**Bogensperger** Sensitivity Analysis and Solution Time Reduction in MIP (*p. 209*)		
MA366			**S19: Environmental Questions** **Chair: Haasis**					
			Zadnik Stirn The Use of the Travelling Salesman Approximation Algorithm for Optimal Decision... (*p. 216*)	**Wenke** The Estimation of Demand-Elasticities Considering Different Functional Forms,... (*p. 216*)				
H1029			**S20: Inventory** **Chair: Inderfurth**					
			Van der Duyn Schouten Improving Retailers Inventory Management by Using Producers Information. (*p. 224*)	**Jensen** Results on the Planning Stability of Lotsizes in Multi-Stage Systems (*p. 224*)	**Meier-Barthold** Flexibilität in der Material-Logistik (*p. 225*)	**Schefer** Kapitalmarkt-orientierte Bewertung stochastischer Lagerhal-tungsregeln (*p. 225*)		

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			Richner Health Market: Complexities as Pitfalls? *(p. 229)*	**Verheuen** A Mixed Price/Budget System in the Health Care Sector *(p. 229)*	**Goisis** The Growing Italian Health Expenditure: Some Tentative Explanations *(p. 229)*	**Smith** Development of a Formula for Distributing Health Service Finance in England *(p. 230)*		
MA042			**S22: Decision Theory** **Chair: Vetschera**					
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H1058			**S23: Marketing and Data Analysis** **Chair: Gierl**					
			Lutz Pricing in Europe: Which Factors Influence Country-specific Price Differences? *(p. 249)*	**Aust** A Unifying Approach for Benefit Segmentation and Profit Orientated Product... *(p. 249)*	**Mucha** Adaptive Clustering in the Statistical Computing Environment XploRe *(p. 250)*	**Natter** Referenzpreis-modelle mit latenten Variablen *(p. 250)*		
MA001			**S24: Case Studies in OR** **Chair: Schuster**					**S24: Semiplenary** **Chair: Schuster**
			Wetzlinger Short Term Operation Planing of a Hydro Power System User Requirements, Experience... *(p. 255)*	**Brühlmann** Interaktive Personalpla-nung und Disposition für den Check-In Bereich der Swissair *(p. 255)*	**Brühlmann** Ein Modell zur Bestimmung der optimalen Preisgestaltung bei der Swissair *(p. 255)*	**Lewandowski** Prognosequal-ität als Basis der Planungs- und Rentabilitäts-verbesserung im... *(p. 256)*		**Mentzel** Einbettung des Informationsmanage-ment in eine moderne Unterneh-mensführung *(p. 256)*

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H111		**Preisträger** **Chair: Tempelmeier**			**S1: Linear Programming** **Chair: Ziegler**				**S1: Linear Programming** **Chair: Vajda**			
		Juretzka Semi-Greedy Heuristics for Academic Course Scheduling *(p. 44)*	**Müller** Jahresarbeitszeit- und Schichtplanung *(p. 44)*		**Küfer** Some Recent Developments in the Probabilistic Analysis of the Simplex Algorithm *(p. 47)*	**Volgenant** Linear and Semi Assignment Problems: A Core Oriented Approach *(p. 47)*	**Ziegler** Randomized Simplex Algorithms on Klee-Minty Cubes *(p. 48)*	**Pullan** Existence and Duality Theory for Separated Continuous Linear Programs *(p. 48)*	**Dowling** An Affine Scaling Algorithm for Linear Programming with Inequality Constraints *(p. 48)*	**Kanzow** Some Interior-Point-like Methods for the Linear Complementarity Problem *(p. 49)*	**Usenik** Generalized Continous Variable Dynamic Linear Programming *(p. 49)*	**Vajda** Contemporaries *(p. 49)*
H104		**S2: Non-Linear Programming** **Chair: Vaarmann**		**Plenary** **Chair: Guddat**	**S2: Non-Linear Programming** **Chair: Bomze**				**S2: Non-Linear Programming** **Chair: Kiwiel**			
		Horst New LP-Bound for Lipschitz Optimization and Systems of Inequalities *(p. 52)*	**Madl** Mathematical Model for Optimization of Cutting Conditions in Machining *(p. 53)*	**Zowe** Optimal Design of Mechanical Structures *(p. 43)*	**Moré** Newton Methods for Large-Scale Optimization *(p. 54)*	**Facchinei** Newton-Type Algorithms for the Solution of Inequality Constrained Minimization... *(p. 55)*	**Fernandes** Newton Based Exact Penalty Techniques for Nonlinear Optimization with Constraints *(p. 56)*	**Kleinmichel** A Class of Newton-Type Methods for Equality and Inequality Constrained Optimization *(p. 56)*	**Bulatov** The Modifications of Simplicial Embeddings Method and its Applications. *(p. 57)*	**Kiwiel** Complexity Estimates of Some Cutting Plane Methods for Convex Minimization... *(p. 58)*	**Drud** The GRG Approach for Large Scale Models *(p. 59)*	**Kirillova** Network Methods of Solving Smooth and Nonsmooth Extremal Problems *(p. 60)*
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		Meer A Non-Completeness Result for Quadratic Programming *(p. 53)*	**Kiwiel** A Descent Level Bundle Method for Convex Non-differentiable Minimization *(p. 53)*		**Tan** The Simple Block Iterative Algorithm of an Extended Entropy Model and its... *(p. 54)*	**Dempe** Computing the Directional Derivative of Optimal Solutions *(p. 54)*	**Felgenhauer** On Sensitivity Analysis for Minimization Algorithms *(p. 55)*	**Günzel** On Stability Concepts in NLP *(p. 56)*	**Arakelian** A Numeric Method for Solving the Problem of Separable Programming *(p. 57)*	**Antipin** Computing Fix Points in Parametric Optimization Problems *(p. 58)*	**Izhutkin** The Reduced Direction Methods for Solving Stochastic Problems in the Dialog... *(p. 58)*	**Tichatschke** Prox-Regularization Approach for Fully-Parametrized Convex Semi-Infinite Programming... *(p. 59)*

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	Sen Stochastic Decomposition Algorithms for Stochastic Linear Programs *(p. 70)*	**Vogel** On Stability in Stochastic Programming - Probability Measures Depending on the... *(p. 70)*	**Dentcheva** Differentiability of Solutions of Two-Stage Stochastic Programs *(p. 70)*		**Gaivoronski** Integer Stochastic Programming Algorithms of Markov Chain Type *(p. 71)*	**Stella** A Class of Stochastic Optimization Algorithms Applied to Some Problems in... *(p. 71)*	**Lepp** On the Discrete Approximation of Probability Functionals *(p. 71)*	**Gröwe** Nonparametric Estimators in Chance-Constrained Programs *(p. 72)*	**Abel** Ein stochastisches Optimierungsmodell zum marktorientierten Zielkostenmanagement *(p. 72)*	**Khamisov** An Approach to the Maximization of the Probability Function *(p. 73)*	**Lutin** Discrete Stochastic Model for Optimization Equipment of Enterprise (for Example... *(p. 73)*	**Fiedler** Bounding in Multi-Period Stochastic Programming Problems *(p. 73)*
H110		**S4: Discrete Optimization Chair: Hefner**			**S4: Discrete Optimization Chair: Ruhe**				**S4: Discrete Optimization Chair: Righini**			
		Borndörfer Solving Set Partitioning Problems Arising in Handicapped People's Transport *(p. 76)*	**Hefner** A Polyhedral Approach to a Contrained Assignment Problem *(p. 76)*		**Terno** Subproblems of the One-Dimensional Cutting Stock Problem Having MIRUP *(p. 77)*	**Semenkin** Mixed Optimization Problems in Spacecraft Design *(p. 77)*	**Ruhe** An Integer Programming Approach to Optimal Software Metrics Selection *(p. 78)*	**Gimadi** Design and Analysis of Some Approximation Algorithms for Large Scale Travelling-Salesman... *(p. 79)*	**Nasini** Flexibility in Flow Networks *(p. 80)*	**Kulej** A Vehicle Routing and Scheduling Problem with Time Windows *(p. 80)*	**Winker** The Tuning of the Threshold Accepting Heuristic for Traveling Salesman Problems... *(p. 81)*	**Righini** Approximation Algorithms for the ATSP *(p. 82)*
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	Glavitsch Models and Methods of the Optimization of Electric Power Systems (*p. 209*)	**Königsperger** An Approach to Multiple Criteria Decision Making in Production Scheduling (*p. 101*)	**Wang** Production Scheduling and Neural Networks (*p. 101*)		**Neumann** Heuristics for Resource-Constrained Project Scheduling with Minimal and Maximal... (*p. 101*)	**Józefowska** Discrete-Continous Scheduling Heuristics and Their Worst-Case Analysis (*p. 102*)	**Hurink** Improving Local Search Heuristics for some Scheduling Problems (*p. 102*)	**Tautenhahn** Heuristics for Permutation Flow Shop Scheduling with Batch Setup Times (*p. 102*)	**Jurisch** GMÖOR-Preisträger: Scheduling Jobs in Shops with Multi-Purpose Machines (*p. 103*)	**Kroon** Variants of the Two Machine Flow Shop Problem (*p. 103*)	**Józefowska** Scheduling a flow shop to minimize maximal lateness under precedence constraints (*p. 104*)	**Agnetis** Batch Scheduling in a Two Machine Flow Shop with Limited Buffer (*p. 104*)
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		Müller Konzeption einer Zentralen Verkehrsleitung (*p. 117*)	**Schütze** Qualität der Fahrgastbedienung im ÖPNV - Wie sie gemessen werden kann (*p. 117*)		**Feige** Die Konfiguration von flächigen Speditions- und Paketdienst-Transportnetzen (*p. 117*)	**Stolze** Erweiterung der Datenbasis zum Tourenproblem: Vorstellung einer Komponente... (*p. 118*)	**Paessens** Tourenplanung bei der Milchsammlung (*p. 118*)	**Klötzler** Transportfluss-Optimierung auf Mengenfunktionen (*p. 119*)	**Caliskan** Ein gemischt-ganzzahlig mathematisches Modell Vorschlag zur Anschlussoptimierung... (*p. 120*)	**Schöbel** On Fair Zone Designs in Public Transportation Systems (*p. 120*)	**Löbel** Solving Very Large Vehicle Scheduling Problems in Public Mass Transit (*p. 121*)	**Gomes** A Study on Efficiency Improvement of a Teletraffic Performance Simulator... (*p. 121*)
MA005	**S8: Semiplenary Chair: Feichtinger**	**S8: Control Theory and Dynamical Systems Chair: Dockner**			**S8: Control Theory and Dynamical Systems Chair: Neck**				**S8: Control Theory and Dynamical Systems Chair: Jörgensen**			
	Rinaldi Limit Cycles in Slow - Fast Dynamical Systems (*p. 128*)	**Finkenstädt** A Simple Test to Accompagny the Nearest Neighbor Forecasting Approach to... (*p. 128*)	**Feichtinger** Periodic and Chaotic Solutions of Dynamic Programs (*p. 128*)		**Jörgensen** Optimal Investment and Finance in Renewable Resource Harvesting (*p. 129*)	**Hartl** Input Substitution Subject to Environmental Constraints (*p. 129*)	**Kort** Marketable Permits in a Stochastic Dynamic Model of the Firm (*p. 129*)	**Erzin** Some Structure Optimization Problems of Hierarchic Systems (*p. 130*)	**Gaunersdorfer** Strategisches Preismanagement bei Sättigungseffekten (*p. 130*)	**Schäfer** Natural Resources and Pollution - Cooperative and Non-Cooperative Equilibria (*p. 130*)	**Yeung** A Reduction Technique For Deriving Feedback Strategies of a Class of Infinite... (*p. 131*)	
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		Szajowski Uncertain Employment in Competitive Best Choice Problems (*p. 138*)	**Al-Mutairi** A Stochastic Model for Layered Defence System (*p. 138*)		**Brandt** Approximate Mean Sojourn Times of a Multi-Queue Processor Sharing System with... (*p. 139*)	**Brandt** Mean Sojourn Times in a Processor Sharing System with Queues of Different... (*p. 139*)	**Schmidt** Optimierung von Leistungsgrößen in einem geschlossenen Warteschlangennetz... (*p. 139*)	**van der Wal** Assigning Traffic in Multi-Machine Systems (*p. 140*)	**Dejon** On a Theoretical Aspect of Dynamic Discrete Stochastic Choice Modelling (*p. 140*)	**Kaniovski** Qualitative Theory of Ordinary Differential Equations and Almost Sure Convergence... (*p. 141*)	**Nakai** Some Problems on an Optimal Selection Problem (*p. 142*)	**Sakaguchi** A Best-Choice Problem for Bivariate Uniform Distribution (*p. 143*)

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H3010		**S10: Mathematical Economics and Game Theory** **Chair: Kuipers**			**S10: Mathematical Economics and Game Theory** **Chair: Eichhorn**				**S10: Mathematical Economics and Game Theory** **Chair: Olt**			
		Eichhorn Three Theorems Contradicting Economic Statements of Politicians (*p. 150*)	**Worobjoff** Shapleyscher Operator (*p. 151*)		**Klaus** Voting Correspondences for Public Goods (*p. 151*)	**Olt** Indices of Structural Changes in the Theory of the Price Index (*p. 151*)	**Peters** On m-Dimensional Division Problems with Single-Peaked Preferences (*p. 152*)	**Perea y Monsuwé** Coincidence of Weak Sequential and Sequential Equilibria (*p. 152*)	**Diubin** Asymptotic values and income redestribution under transition from a non-competitive... (*p. 152*)	**Borm** How to Measure Skill in Casino Games? (*p. 153*)	**Porosiński** On Continuous-Time Two Person Full-Information Best Choice Problem with Imperfect... (*p. 153*)	**Radzik** A New Solution Concept for Cooperative Games (*p. 153*)
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H2053	**S13: Semiplenary** **Chair: Isermann**	**S13: Logistics** **Chair: Schiltknecht**			**S13: Logistics** **Chair: Domschke**				**S13: Logistics** **Chair: Dethloff**			
	Domschke Neuere Ansätze für Transport- und Standortprobleme (*p. 182*)	**Wolf** Über die Komplexität des Produktionsplanungsproblems auf Logistikebene in... (*p. 183*)	**Grüner** Warengruppen-Management – erfolgsorientierter Ressourcen-Einsatz im Handel (*p. 183*)		**Fleischmann** Bestände in Distributionssystemen für Konsumgüter (*p. 184*)	**Dethloff** Einfluss unterschiedlicher Modellformulierungen gemischt-ganzzahliger Probleme... (*p. 184*)	**Lontke** Ein Parallelansatz zur Tourenplanung auf der Basis der kooperierenden Autonomie (*p. 185*)	**Rixen** Ein Vergleich von Verteilungsansätzen Genetischer Algorithmen für das Job–Shop... (*p. 185*)	**Cieslik** Steiner Minimal Trees (*p. 186*)	**Däßler** Constraint Logic Problem Solvers: A new Approach to solve OR-Problems (*p. 186*)	**Trauzettel** Multi-Stage Distribution System Design: An Industrial Application (*p. 187*)	

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MA366		**S19: Environmental Questions** **Chair: Günther**			**S19: Environmental Questions** **Chair: Haasis**				**S19: Environmental Questions** **Chair: Günther**			
		Haasis OR and Environmental Management in Industries *(p. 217)*	**Richter** A generalised EOQ repair and waste disposal model *(p. 218)*		**Holzbaur** Ein dynamisches Optimierungsmodell für das Recycling-Kaskadenmodell *(p. 218)*	**Püchert** Ein formaler Ansatz zur Planung von Entsorgungssystemen auf Basis mehrstufiger... *(p. 219)*	**Spengler** Methodische Demontage und Verwertungsplanung - dargestellt am Beispiel des Recyclings... *(p. 219)*	**Luptacik** Pricing Problems in an Environmental Input–Output Model *(p. 220)*	**Galinis** Emission Reduction Strategy For Energy Conversion Sector in Lithuania *(p. 220)*	**Kałuszko** KARO - the Computer System for Simulation of the Impact of Energy Sector Expansion... *(p. 221)*	**Petriczek** A Computer Model of Water Quality in River Network *(p. 221)*	

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		Inderfurth Multi-Stage Safety Stock Planning with Different Service Levels (*p. 226*)	**Suchanek** Beruecksichtigung des Schaetzrisikos bei der Festlegung von Sicherheitsbestaenden... (*p. 226*)		**Günther** Adaptive Vorhersage in einem Threshold-Modell (*p. 227*)	**Köchel** Kombinierte Lagerhaltungs- und Bedienungsmodelle für die optimale Gestaltung... (*p. 227*)	**Nissen** Evolutionary Optimization of a Stochastic Inventory Simulation (*p. 228*)		**Mosler** Testing Whether Two Distributions are Stochastically Ordered or not (*p. 141*)	**Kavkler** Validation of a Generalized Multiple Linear Regression (*p. 141*)	**van Houtum** Flexible Bound Models for Queueing Systems (*p. 142*)	**Feinberg** Bicriterion Optimization of an $M/G/1$ Queue with a Removable Server (*p. 143*)
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		Stepan Nichtlineare Tarife für die Finanzierung von Spitalsleistungen (*p. 230*)	**Broeckx** The Effects of Parametrization in C.A.R.T. on Healthcare Data (*p. 231*)		**Bürkle** Data Envelopment Analysis - Effizienzbeurteilung mittels Linearer Programmierung... (*p. 231*)	**Becker** Sozioökonomische Untersuchungen als Entscheidungshilfe im Gesundheitswesen (*p. 231*)	**Weger** Betriebswirtschaftliche Probleme freiberuflich niedergelassener Ärzte (*p. 232*)	**Henning** Die Aufdeckung von Defiziten in der Ablaufsteuerung im Krankenhaus mit Hilfe... (*p. 232*)	**Schramm** Möglichkeiten und Grenzen des Einsatzes der Simulation bei der Ausbildung... (*p. 233*)	**Bartos** Leistungsorientierte Krankenanstaltenfinanzierung, ihre Vorteile und Nachteile (*p. 233*)	**Tan** Medical and Health Graphics: A Theoretical and Empirical Framework for Understanding... (*p. 233*)	
MA042	**S19: Semiplenary Chair: Günther**	**S22: Decision Theory Chair: Wanka**			**S22: Decision Theory Chair: Kahle**				**S22: Decision Theory Chair: Habenicht**			
	Müller-Witt Trends and Perspectives in Environmental Information Management Systems (*p. 217*)	**Elster** Multicriterion Optimization Problems - Some Economic Applications (*p. 238*)	**Wanka** On Vectorial Location and Approximation (*p. 239*)		**Kleine** Principal-Agent-Theorie aus entscheidungstheoretischer Sicht (*p. 239*)	**Owsinski** Distance Considerations in Valued Preference Relation Aggregation (*p. 239*)	**Kahle** Abbildung unscharfer Mehrzielsysteme in kognitiven Netzwerken (*p. 240*)	**Weber** AHP-Methode: Praxisbeispiele (*p. 240*)	**Chwolka** Delegation von entscheidungsvorbereitenden Informationsaktivitäten (*p. 241*)	**Hanne** An Application of Different MCDM Methods to Bank Balance Sheet Analysis (*p. 242*)	**Snyder** Application of Computer Augmented Learning to Qualitative Decision Support (*p. 242*)	
H1058					**S23: Marketing and Data Analysis Chair: Hildebrandt**				**S23: Marketing and Data Analysis Chair: Hruschka**			
					Baier Classification Using Emotional Responses to Dynamic Stimuli (*p. 251*)	**Sander** Computergestützte Bewertung von Marken (*p. 251*)	**Skiera** COSTA: A Decision Support System for a Contribution Optimizing Sales Territory... (*p. 252*)	**Schubert** Strategisches Serviceportfolio (*p. 252*)	**Schwaiger** Mean Value Estimation in Biased Samples (*p. 252*)	**Bartels** Total Approximation Problems (*p. 253*)	**Pechtl** Remarks on Price Calculation under Interdependencies in the Assortment (*p. 253*)	

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		Köpplinger The Concurrent Engineering Platform SIFRAME - An Integrated Product Development... *(p. 257)*	**Wierda** Wie Organisationen entscheiden — Business Reengineering als Lernprozess *(p. 257)*		**Rabe** Die optimale Größe von Brief-Zustellbasen *(p. 258)*	**Matthes** Entfernungsabhängige Kosten von Telekommunikations–dienstleistungen *(p. 258)*	**Wiegand** Netz- und Leistungswegplanung im Eisenbahnverkehr *(p. 259)*	**Dillmann** Erfahrungsbericht über Tourenplanung im deutschen Pressegrosso *(p. 259)*	**Gottschalck** Die Steuerung der Großserienfertigung mit reduzierten Kapazitätsreserven... *(p. 259)*	**Westenberger** Diskrete Aufgaben in der Produktionsplanung und Produktionssteuerung der... *(p. 260)*	**Heipcke** Constraint Net Propgation versus Mixed Integer Programming - Two Scheduling... *(p. 260)*	**Kallrath** Applications of Discrete Optimization in Chemical Industry *(p. 261)*

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H105			**Berlin im Umbruch** **Chair: Möhring**	**Berlin im Umbruch** **Chair: Möhring**	**S7: Panel Discussion**			
			Späth Industrieller Strukturwandel in den neuen Ländern. Das Beispiel des Zeiss-Kombinates... *(p. 14)*	**Hassemer** Stadtplanung als vorausgedachte Zukunft *(p. 14)*	Verkehr und Transport als Basis eines strukturellen Wandels? Anforderung an Berlin und sein Umland Teilnehmer: F.J. Rademacher, H. Kramp W. Rothengatter, M. Kleinert H. Haase, H. Gibtner (Moderation)			
H104	**S2: Non-Linear Programming** **Chair: Kleinmichel**				**S2: Non-Linear Programming** **Chair: Facchinei**			
	Zimmermann Some Tshebyshev Approximation Problems with Extremal Operations *(p. 60)*	**Tammer** Approximate Solutions of Location Problems *(p. 61)*			**Jongen** On Continuous Deformations of Semi-Infinite Optimization Problems *(p. 62)*	**Singer** Subdifferentials with Respect to Dualities *(p. 62)*	**Dumitrescu** A Greedy Algorithm for Solving the Nonlinear Complementarity Problem *(p. 63)*	**Rückmann** Pathfollowing Methods in Nonlinear Optimization: Lagrange Multiplier Embedding *(p. 64)*
H107	**S2: Non-Linear Programming** **Chair: Kunisch**				**S2: Non-Linear Programming** **Chair: Shanno**			
	Breckner Applications of Derived Sets *(p. 60)*	**Vasilyev** Regularization of the Continuous Projection Gradient Methods of Minimization *(p. 61)*			**Breitfeld** A Globally Convergent Penalty-Barrier Algorithm for Nonlinear Programming and... *(p. 61)*	**Luban** On the Multiplicative Barrier Function Approach for Nondifferentiable Optimization... *(p. 62)*	**Fischer** Solution of Specially Structured Linear Complementarity Problems *(p. 63)*	**Izhutkin** The Hybrid Methods of the Reduced Directions for Solving Nonlinear Extremal... *(p. 63)*
H112	**S3: Stochastic Programming** **Chair: Römisch**							
	Rungaldier On Dynamic Programming for Multistage Decision Problems under Uncertainty *(p. 74)*	**Frauendorfer** On the Implementation of Barycentric Approximation *(p. 74)*						

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H110	**S4: Discrete Optimization Chair: Walkowiak**		**S4: Semiplenary Chair: Hertz**		**S4: Discrete Optimization Chair: Tschöke**			
	Schiermeyer Reverse-Fit: A 2-Optimal Algorithm for Packing Rectangles Two Dimensional Packing... (*p. 82*)	**Walkowiak** Parallel Tabu Search for Two-Dimensional Cutting (*p. 83*)	**Hansen** Global Optimization and Location Theory (*p. 84*)		**Fabian** Parallel Cutting Stock Algorithms (*p. 84*)	**Fritsch** Cutting Stock by Iterated Matching (*p. 85*)	**Scheithauer** Modelling of Packing Problems (*p. 85*)	**Tschöke** A New Parallel Branch-and-Bound Method to Solve the 2-dim Guillotine Cutting... (*p. 86*)
H106	**S4: Discrete Optimization Chair: Balas**				**S4: Discrete Optimization Chair: Deza**			
	Balas Generalized Path Inequalities for the Asymmetric Traveling Salesman Problem (*p. 83*)	**Schulz** Some New Results on Supermodular Polyhedra in Machine Scheduling (*p. 83*)			**Kolokolov** Regular Partitions and Cuts in Integer Programming (*p. 84*)	**Tusera** Revisiting Subgradient Techniques Applied to 3D Linear Assignment Problem (*p. 85*)	**van Thoai** The General Integer Quadratic Programming Problem (*p. 86*)	**Deza** Faces and Graphs of Cut Polyhedra (*p. 86*)
MA041	**S5: Graph Algorithms Chair: Kubale**				**S5: Graph Algorithms Chair: Engel**			
	Kubale A Catalogue of the Smallest Hard-to-Color Graphs (*p. 94*)	**Labahn** Combinatorial Analysis of Gossiping and Broadcasting (*p. 95*)			**Müller-Hannemann** Using Network Flows for Mesh Generation and Density Control (*p. 95*)	**Szlachcic** The Parametric Identification Problem for Water Supply System with Deficit (*p. 95*)	**Dudek-Dyduch** A Parallel Branch & Bound Algorithm for the Travelling Salesman Problem (*p. 96*)	**Bourjolly** An Efficient Branch-and-Bound Algorithm for the Maximum Cardinality Stable Set... (*p. 96*)
MA309	**S6: Scheduling Chair: Hurink**							
	Jordan Models for Scheduling and Batching with Deadlines (*p. 105*)	**Brüggemann** Komplexität des diskreten simultanen Losgrößen- und Reihenfolgeproblems (*p. 106*)						

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MA043	**S6: Scheduling** **Chair: Schmidt**			**S6: Semiplenary** **Chair: Bräsel**	**S6: Scheduling** **Chair: Jordan**			
	Giordani Exact and Heuristic Algorithms for the Jump Number Problem (*p. 104*)	**Salchegger** A Parallel Based Algorithm for an EMS Model (*p. 105*)		**Sotskov** Two, Three, Many or the Complexity of Scheduling with Fixed Number of Jobs (*p. 106*)	**Müller** The ADLIPS Algorithm and Data Library for Project Scheduling (*p. 107*)	**Kotov** A New Kind of Algorithm for the Partitioning Problem (*p. 107*)	**Kellerer** Maximizing the Minimum Completion Time on a Multiprocessorscheduling System (*p. 107*)	**Gimadi** Asymptotically Exact Approach to the Solution of Bin Packing Problem (*p. 108*)
H2032	**S7: Transportation and Traffic** **Chair: Pesch**		**S14: Semiplenary** **Chair: Karmann**					
	Greb Interactive Vehicle Routing with Tabu Search (*p. 121*)	**Greistorfer** Computational Experiments with Heuristics for a Capacitated Arc-Routing Problem (*p. 122*)	**Böhm** Cycles and Bifurcations in a Dynamic Macroeconomic Model (*p. 192*)					
MA005	**S8: Control Theory and Dynamical Systems** **Chair: Hoffmann**				**S8: Control Theory and Dynamical Systems** **Chair: Kirillova**			
	Gabasov Methods of Constructing Optimal Feedback Controls (*p. 131*)	**Chemishkian** Model Uncertainty - Complexity Balancing in Quasinormalization-Based Control (*p. 132*)			**Perez Cabrera** Singular Control Problems as ill-posed Problems (*p. 132*)	**Goldberg** Numerical Treatment of a Shape Optimization Problem in Thermoelasticity (*p. 133*)	**Wajs** Discrete Optimization Problem for Discrete-Continuous Processes (*p. 133*)	**Kovalev** Optimization Problem of Land- and Board Control Complex Software (*p. 133*)
H1012	**S9: Stochastic Models in OR** **Chair: Stadje**				**S9: Stochastic Models in OR** **Chair: Rieder**			
	Magiera Optimal Sequential Procedures for Stationary Gaussian Processes (*p. 143*)	**Sural** Interval Estimation for the Mean of a Stochastic Process (*p. 144*)			**Yushkevich** Sensitive Criteria in Markov Decision Processes with a Borel State Space (*p. 144*)	**Kallenberg** Parametric Linear Programming as a Tool for the Solution of Markov Decision... (*p. 144*)	**Gordienko** Approximation of Average Optimal Policies in Markov Decision Processes with... (*p. 145*)	**Mazalov** Optimal Stopping Rules in Sequential Mate Choice (*p. 145*)

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H3010	**S10: Mathematical Economics and Game Theory** **Chair: Derks**		**S10: Semiplenary** **Chair: Leopold-Wildburger**		**S10: Mathematical Economics and Game Theory** **Chair: Peters**			
	Hamers On the Convexity of Delivery Games (*p. 154*)	**Nastasi** Dynamic Non-cooperative Firms R&D Strategies in an Oligopolistic Industry (*p. 154*)	**Maschler** How to Play Games When Utilities Change During the Play (*p. 154*)		**Dawid** Learning by Genetic Algorithms in Evolutionary Games (*p. 155*)	**Mehlmann** ODYSSEUS ZIEHT IN DEN KRIEG—Ein spieltheoretischer Ansatz zur Klärung mythologischer... (*p. 155*)	**Derks** Null Players Out (*p. 155*)	
MA004	**S11: Banking, Finance, Insurance** **Chair: Rosenkranz**				**S11: Banking, Finance, Insurance** **Chair: Keber**			
	Schubert Finanzportefeuilles mit Restriktionen (*p. 163*)	**Keber** Zur Berücksichtigung von unsicherem Zahlungsverkehr im Rahmen der kurzfristigen... (*p. 164*)			**Windmöller** Clusteranalyse zur Steuerung von Bausparkollektiven (*p. 164*)	**Schaufelberger** Ein Modell zur Simulation der Kosten und Erträge im kartengestützten Zahlungsverkehr... (*p. 165*)	**Konarzewska** Portfolio Optimization - Dynamic Approach for Warsaw Stock Exchange (*p. 165*)	**Parys** Cluster Analysis Applications to Constructing Budgets (*p. 165*)
H2013	**S12: Production** **Chair: Kistner**				**S12: Production** **Chair: Pesch**			
	Sonntag Technische Variablen in der betriebswirtschaftlichen Theorie der Produktion (*p. 173*)	**Rogalski** Prozeßkosteninformationen für die Fertigungsplanung (*p. 174*)			**Wallacher** Der Varianz-Dispersions-Graph - Ein Hilfsmittel zur Auswahl von Versuchsplänen (*p. 175*)	**Carp** Optimization of Sucker Rods' Endurance at Oil Wells (*p. 175*)	**Stella** A GAP Formulation for Solving Production Planning Problems in Telecom Industry (*p. 175*)	**Devjak** Application of a Linear Program in Developing Tannin-Based Adhesives Used for... (*p. 176*)
H2053	**S13: Logistics** **Chair: Stähly**							
	Baum Logistisches Unternehmensplanspiel LOGOS-TQM (*p. 187*)	**Isermann** Das homogene Packproblem - Strukturen - Strukturanalysen - optimierende Heuristiken (*p. 187*)						

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H2033	**S12: Production** **Chair: Wallacher**				**S14: Macro-Economics** **Chair: Url**			
	Scott Applications of Integer Programming *(p. 173)*	**de la Llata** Aggregate Production Planning Using Multicriteria Linear Programming Models *(p. 174)*			**Uebe** Social Security and Immigration *(p. 192)*	**Graff** Human Capital and New Growth Theory - Some Insight from a Cross Country Study *(p. 192)*	**Wigger** Endogenes Wachstum und internationale Kaptitalbewegungen *(p. 193)*	**Dahnke** Die Notwendigkeit von Revisionen bei Sozial- produktschätzungen *(p. 193)*
MA366	**S21: Health** **Chair: Leonhartsberger-Schrott**				**S19: Environmental Questions** **Chair: Haasis**			
	Leonhartsberger-Schrott Lösungsansätze der privaten Krankenversicherer Österreichs zur Bekämpfung... *(p. 234)*	**Fankhauser** Opportunities and Risks of Small Hospitals in a Hospital Corporation (Chancen... *(p. 234)*			**Kahn** Umweltfaktor-abhängige Waldwachstumssimulation zu Analyse- und Prognosezwecken... *(p. 222)*	**Leimbach** Entwicklung eines Fuzzy-Optimierungsmodells zur Unterstützung der klimapolitischen... *(p. 222)*	**Straubel** Mehrkriterieller Entwurf von Trinkwasser-Versorgungsnetzen *(p. 223)*	
MA042	**S22: Decision Theory** **Chair: Pavić**			**S22: Semiplenary** **Chair: Vetschera**	**S22: Decision Theory** **Chair: Stickel**			
	Pavić Multicriterial Analysis in Field of Selection of Payment by Results System *(p. 244)*	**Plazibat** MCDM in Investments *(p. 244)*		**Korhonen** A Reference Direction Approach in Multiple Objective Linear Programming and... *(p. 244)*	**Müller-Wünsch** Process-directed Management Support using the Mixed-Paradigm-Approach *(p. 245)*	**Kirn** Kooperative Entscheidungsunterstützungssysteme – Einordnung, Stand der Technik,... *(p. 245)*	**Scheubrein** Konzeption eines integrierenden Systems zur Nutzung von Mehrzielentscheidungsmethoden... *(p. 246)*	**Rauh** Extending the Eutity-Relationship Approach to Model Information Systems with... *(p. 246)*
H1058	**S23: Marketing and Data Analysis** **Chair: Green**			**S23: Semiplenary** **Chair: Gaul**				
	Hildebrandt Three-Way Decomposition of Elasticities Using Scanner Data *(p. 254)*	**Röhle** Marketing Mix Optimization with Different Models of Consumer Behaviour *(p. 254)*		**Green** The Role of Operations Research in Market Segmentation and Product Positioning *(p. 254)*				

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MA001	**S24: Case Studies in OR Chair: Gottschalck**				**S24: Case Studies in OR Chair: Gordon**			
	Lippold Krisenmanagement der Leistungserstellung in mittelständischen Industrieunternehmen... (*p. 261*)	**Reuter** Einsatz und Nutzen des Produktionsplanungs-Instruments PEPI bei SANDOZ (*p. 262*)			**Kiehle** Zeitgerechte Versorgung von Raffinerien mit Rohöl (*p. 262*)	**Schreiber** Aufbau einer Informationsdatenbank aus operativen Daten eines Warenwirtschaftssystems (*p. 263*)	**Geppert** Konzeption und Realisierung des **U**nimog-**V**ertriebs-**U**nterstützungs-... (*p. 263*)	**Mey-Kahnert** Optimierungsmethodik versus Unternehmenskultur? (*p. 264*)

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H105	**Plenary** **Chair: Krallmann**									
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