

Contents

Preface	v
The Editors	

I THEORY

Measuring the Balance Space Sensitivity in Vector Optimization <i>A. Balbás and P.J. Guerra</i>	3
On a Certain Approach to Fuzzy Goal Programming <i>S. Chanas and D. Kuchta</i>	15
A Multiobjective Linear Programming Algorithm Based on the Dempster-Shafer Composition Rule <i>S. Csikai and M. Kovács</i>	31
Data Envelopment Analysis by Multiobjective Linear Programming Methods <i>P. Fiala</i>	39
A Fuzzy Borda Count in Multi-person Decision Making <i>J.L. García-Lapresta and M. Martínez-Panero</i>	46
Multiple Criteria Choice Models for Quantitative and Qualitative Data <i>E. Hinloopen, P. Nijkamp and P. Rietveld</i>	61
On the Computational Effectiveness of Multiple Objective Metaheuristics <i>A. Jaszkiewicz</i>	86
On Considering Flexible Constraints of Different Importance in Goal Programming Problems <i>M. Jiménez, M.V. Rodríguez Uriá, M. Arenas Parra and A. Bilbao Terol</i>	101
Trade-offs – A Lost Dimension in Multiple Criteria Decision Making <i>J. Kaliszewski</i>	115
Multiple Objective Path Optimization for Time Dependent Objective Functions <i>M.M. Kostreva and L. Lancaster</i>	127

Multicriteria Decision Support in Bargaining, a Problem of Players' Manipulations <i>L. Krus</i>	143
Some Concepts of Solution for a Game under Uncertainty <i>M. Larbani and F. Kacher</i>	160
Towards the Development of an Integrated Multi-objective Solution and Analysis System <i>S.K. Mirrazavi, D.F. Jones and M. Tamiz</i>	171
Dynamic Discrete Programming with Partially Ordered Criteria Set <i>T. Trzaskalik and S. Sitarz</i>	186
Dual Approach to Generalized Data Envelopment Analysis Based on Production Possibility <i>Y. Yun, H. Nakayama and T. Tanino</i>	196

II APPLICATIONS

Using Interactive Multiple Objective Methods to Determine the Budget Assignment to the Hospitals of a Sanitary System <i>R. Caballero, T. Gómez, M. Puerto López del Amo, M. Luque, J. Martin, J. Molina and F. Ruiz</i>	209
Fuzzy Multi-objective Approach to the Supply Chain Model <i>Y.W. Chen and G.H. Tzeng</i>	221
Goal Programming Model for Airport Ground Support Equipment Parking <i>S.C.K. Chu</i>	235
Multicriteria Decision Aid in Inventory Management <i>C. Dominiak</i>	247
Solution Concepts in Multiple Criteria Linear Production Games <i>F.R. Fernández, M.A. Hinojosa, A. Marmol and J. Puerto</i>	257
Identifying Important Attributes for the Siberian Forests Management Using Rough Sets Analysis <i>M. Flinkman, W. Michalowski, S. Nilsson, R. Slowinski, R. Susmaga and S. Wilk</i>	272

On Optimization Model Formulation Using Neural Networks <i>P. Gąsiorowski</i>	282
The Design of the Physical Distribution System with the Application of the Multiple Objective Mathematical Programming. Case Study <i>M. Hapke, A. Jaskiewicz and J. Żak</i>	297
Integer Goal Programming Applications Using Modelling Systems and Excel <i>J. Jablonský</i>	310
On Shaping Multi Criteria Marketing Strategy of a Pension Fund <i>A. Jędryka and T. Szapiro</i>	320
Multiple Criteria Company Benchmarking using the BIPOLAR Method <i>E. Konarzewska-Gubała</i>	338
Multiobjective Analysis of a Financial Plan in a Bank <i>J. Michnik</i>	351
Inverse Stochastic Dominance and its Applications in Production Process Control <i>M. Nowak, T. Trzaskalik, G. Trzpiot and K. Zaraś</i>	362
Multi Criteria Multilevel Transshipment Problem and its Software Support <i>T. Šubrt and L. Domeová</i>	377
On Ranking of Economic Educational Institutions in Poland <i>T. Szapiro and M. Knauff</i>	386
Multicriterion Analysis Based on Marginal Conditional Stochastic Dominance in Financial Analysis <i>G. Trzpiot</i>	400
Multicriteria Analysis Based on Stochastic and Probabilistic Dominance in Measuring Quality of Life <i>M. Zawisza and G. Trzpiot</i>	412
Company Financial Multiple Attributive Evaluation under Vagueness Conditions <i>Z. Zmeškal</i>	424



<http://www.springer.com/978-3-7908-1409-5>

Multiple Objective and Goal Programming
Recent Developments

Trzaskalik, T.; Michnik, J. (Eds.)

2002, IX, 432 p., Softcover

ISBN: 978-3-7908-1409-5

A product of Physica-Verlag Heidelberg