Contents

Preface
The Editors

I THEORY

Measuring the Balance Space Sensitivity in Vector Optimization
A. Balbás and P.J. Guerra

On a Certain Approach to Fuzzy Goal Programming
S. Chanas and D. Kuchta

A Multiobjective Linear Programming Algorithm Based on the
Dempster-Shafer Composition Rule
S. Csikai and M. Kovács

Data Envelopment Analysis by Multiobjective Linear Programming
Methods
P. Fiala

A Fuzzy Borda Count in Multi-person Decision Making
J.L. García-Lapresta and M. Martínez-Panero

Multiple Criteria Choice Models for Quantitative and Qualitative Data
E. Hinloopen, P. Nijkamp and P. Rietveld

On the Computational Effectiveness of Multiple Objective
Metaheuristics
A. Jaszkiewicz

On Considering Flexible Constraints of Different Importance in Goal
Programming Problems
M. Jiménez, M.V. Rodríguez Uria, M. Arenas Parra and A. Bilbao Terol

Trade-offs – A Lost Dimension in Multiple Criteria Decision Making
I. Kaliszewski

Multiple Objective Path Optimization for Time Dependent Objective
Functions
M.M. Kostreva and L. Lancaster
Multicriteria Decision Support in Bargaining, a Problem of Players’ Manipulations
L. Kruš

Some Concepts of Solution for a Game under Uncertainty
M. Larbani and F. Kacher

Towards the Development of an Integrated Multi-objective Solution and Analysis System
S.K. Mirrazavi, D.F. Jones and M. Tamiz

Dynamic Discrete Programming with Partially Ordered Criteria Set
T. Trzaskalik and S. Sitarz

Dual Approach to Generalized Data Envelopment Analysis Based on Production Possibility
Y. Yun, H. Nakayama and T. Tanino

I I APPLICATIONS

Using Interactive Multiple Objective Methods to Determine the Budget Assignment to the Hospitals of a Sanitary System

Fuzzy Multi-objective Approach to the Supply Chain Model
Y.W. Chen and G.H. Tzeng

Goal Programming Model for Airport Ground Support Equipment Parking
S.C.K. Chu

Multicriteria Decision Aid in Inventory Management
C. Dominiak

Solution Concepts in Multiple Criteria Linear Production Games
F.R. Fernández, M.A. Hinojosa, A. Marmol and J. Puerto

Identifying Important Attributes for the Siberian Forests Management Using Rough Sets Analysis
M. Flinkman, W. Michalowski, S. Nilsson, R. Slowinski, R. Susmaga and S. Wilk
On Optimization Model Formulation Using Neural Networks
P. Gąsiorowski

The Design of the Physical Distribution System with the Application of the Multiple Objective Mathematical Programming. Case Study
M. Hapke, A. Jaszkiewicz and J. Zak

Integer Goal Programming Applications Using Modelling Systems and Excel
J. Jablonsky

On Shaping Multi Criteria Marketing Strategy of a Pension Fund
A. Jędryka and T. Szapiro

Multiple Criteria Company Benchmarking using the BIPOLAR Method
E. Konarzewska-Gubała

Multiobjective Analysis of a Financial Plan in a Bank
J. Michnik

Inverse Stochastic Dominance and its Applications in Production Process Control
M. Nowak, T. Trzaskalik, G. Trzpiot and K. Zaras

Multi Criteria Multilevel Transshipment Problem and its Software Support
T. Šubrt and L. Domeová

On Ranking of Economic Educational Institutions in Poland
T. Szapiro and M. Knauff

Multicriterion Analysis Based on Marginal Conditional Stochastic Dominance in Financial Analysis
G. Trzpiot

Multicriteria Analysis Based on Stochastic and Probabilistic Dominance in Measuring Quality of Life
M. Zawisza and G. Trzpiot

Company Financial Multiple Attributive Evaluation under Vagueness Conditions
Z. Zmeškal