

CONTENTS

Preface.....	v
Contributors.....	xi
Multi-Criteria Decision Making Methods and Fuzzy Sets.....	1
<i>Cengiz Kahraman</i>	
Intelligent Fuzzy Multi-Criteria Decision Making: Review and Analysis.....	19
<i>Wael F. Abd El-Wahed</i>	

Part I: FUZZY MADM METHODS AND APPLICATIONS

Fuzzy Analytic Hierarchy Process and Its Application.....	53
<i>Tufan Demirel, Nihan Çetin Demirel, and Cengiz Kahraman</i>	
A SWOT-AHP Application Using Fuzzy Concept: E-Government in Turkey	85
<i>Cengiz Kahraman, Nihan Çetin Demirel, Tufan Demirel, and Nüfer Yasin Ateş</i>	
Fuzzy Outranking Methods: Recent Developments.....	119
<i>Ahmed Bufardi, Razvan Gheorghe, and Paul Xirouchakis</i>	
Fuzzy Multi-Criteria Evaluation of Industrial Robotic Systems Using TOPSIS	159
<i>Cengiz Kahraman, Ihsan Kaya, Sezi Çevik, Nüfer Yasin Ates, and Murat Gülbay</i>	
Fuzzy Multi-Attribute Scoring Methods with Applications.....	187
<i>Cengiz Kahraman, Semra Birgün, and Vedat Zeki Yenen</i>	

Fuzzy Multi-Attribute Decision Making Using an Information Axiom-Based Approach	209
<i>Cengiz Kahraman and Osman Kulak</i>	
Measurement of Level-of-Satisfaction of Decision Maker in Intelligent Fuzzy-MCDM Theory: A Generalized Approach	235
<i>Pandian Vasant, Arijit Bhattacharya, and Ajith Abraham</i>	
FMS Selection Under Disparate Level-of-Satisfaction of Decision Making Using an Intelligent Fuzzy-MCDM Model	263
<i>Arijit Bhattacharya, Ajith Abraham, and Pandian Vasant</i>	
Simulation Support to Grey-Related Analysis: Data Mining Simulation	281
<i>David L. Olson and Desheng Wu</i>	
Neuro-Fuzzy Approximation of Multi-Criteria Decision-Making QFD Methodology	301
<i>Ajith Abraham, Pandian Vasant, and Arijit Bhattacharya</i>	

Part II: FUZZY MODM METHODS AND APPLICATIONS

Fuzzy Multiple Objective Linear Programming	325
<i>Cengiz Kahraman and Ihsan Kaya</i>	
Quasi-Concave and Nonconcave FMODM Problems	339
<i>Chian-Son Yu and Han-Lin Li</i>	
Interactive Fuzzy Multi-Objective Stochastic Linear Programming	375
<i>Masatoshi Sakawa and Kosuke Kato</i>	
An Interactive Algorithm for Decomposing: The Parametric Space in Fuzzy Multi-Objective Dynamic Programming Problems	409
<i>Mahmoud A. Abo-Sinna, A.H. Amer, and Hend H. EL Sayed</i>	
Goal Programming Approaches for Solving Fuzzy Integer Multi-criteria Decision-Making Problems	431
<i>Omar M. Saad</i>	

Grey Fuzzy Multi-Objective Optimization453
P.P. Mujumdar and Subhankar Karmakar

Fuzzy Multi-Objective Decision-Making Models and Approaches.....483
Jie Lu, Guangquan Zhang, and Da Ruan

Fuzzy Optimization via Multi-Objective Evolutionary
Computation for Chocolate Manufacturing 523
*Fernando Jiménez, Gracia Sánchez, Pandian Vasant, and
José Luis Verdegay*

Multi-Objective Geometric Programming and Its Application
in an Inventory Model 539
Tapan Kumar Roy

Fuzzy Geometric Programming with Numerical Examples..... 567
Tapan Kumar Roy

Index..... 589