

Contents

<i>Foreword</i>	v
<i>Preface</i>	vii
<i>Acknowledgments</i>	xv
1. Mathematical Programming and its Applications in Finance <i>L. C. Thomas</i>	1
2. Anti-stalling Pivot Rule for Linear Programs with Totally Unimodular Coefficient Matrix <i>S. N. Kabadi and A. P. Punnen</i>	15
3. A New Practically Efficient Interior Point Method for Convex Quadratic Programming <i>K. G. Murty</i>	21
4. A General Framework for the Analysis of Sets of Constraints <i>R. Caron and T. Traynor</i>	33
5. Tolerance-based Algorithms for the Traveling Salesman Problem <i>D. Ghosh, B. Goldengorin, G. Gutin and G. Jäger</i>	47

6. On the Membership Problem of the Pedigree Polytope 61
T. S. Arthanari
7. Exact Algorithms for a One-defective Vertex Colouring Problem 99
N. Achuthan, N. R. Achuthan and R. Collinson
8. Complementarity Problem involving a Vertical Block Matrix and its Solution using Neural Network Model 113
S. K. Neogy, A. K. Das and P. Das
9. Fuzzy Twin Support Vector Machines for Pattern Classification 131
R. Khemchandani, Jayadeva and S. Chandra
10. An Overview of the Minimum Sum of Absolute Errors Regression 143
S. C. Narula and J. F. Wellington
11. Hedging against the Market with No Short Selling 169
S. A. Clark and C. Srinivasan
12. Mathematical Programming and Electrical Network Analysis II: Computational Linear Algebra through Network analysis 187
H. Narayanan
13. Dynamic Optimal Control Policy in Price and Quality for High Technology Product 213
A. K. Bardhan and U. Chanda
14. Forecasting for Supply Chain and Portfolio Management 231
K. G. Murty
15. Variational Analysis in Bilevel Programming 257
S. Dempe, J. Dutta and B. S. Mordukhovich

16.	Game Engineering <i>R. J. Aumann</i>	279
17.	Games of Connectivity <i>P. Dubey and R. Garg</i>	287
18.	A Robust Feedback Nash Equilibrium in a Climate Change Policy Game <i>M. Hennlock</i>	305
19.	De Facto Delegation and Proposer Rules <i>H. Imai and K. Yonezaki</i>	327
20.	The Bargaining Set in Effectivity Function <i>D. Razafimahatolotra</i>	339
21.	Dynamic Oligopoly as a Mixed Large Game – Toy Market <i>A. Wiszniewska-Matyszkiew</i>	369
22.	On Some Classes of Balanced Games <i>R. B. Bapat</i>	391
23.	Market Equilibrium for Combinatorial Auctions and the Matching Core of Nonnegative TU Games <i>S. Lahiri</i>	401
24.	Continuity, Manifolds, and Arrow’s Social Choice Problem <i>K. Saukkonen</i>	415
25.	On a Mixture Class of Stochastic Game with Ordered Field Property <i>S. K. Neogy, A. K. Das, S. Sinha and A. Gupta</i>	451