Contents

Part I Optimization and Control Theory

Some Recent Developments in Systems and Control Theory

on Infinite Dimensional Banach Spaces: Part 1	3
Some Recent Developments in Systems and Control Theory on Infinite Dimensional Banach Space: Part 2	25
A Class of History-Dependent Inclusions with Applications to Contact Problems	45
On the Number of Solutions Generated by the Simplex Method for LP	75
Use of Approximations of Hamilton-Jacobi-Bellman Inequality for Solving Periodic Optimization Problems	91
On Proper Efficiency in Multiobjective Semi-infinite Optimization Francisco Guerra-Vázquez and Jan-J. Rückmann	115
Using Penalty in Mathematical Decomposition for Production-Planning to Accommodate Clearing Function Constraints of Capacity	137

Part II Techniques and Applications

Optimal Control Techniques	153
The Uncorrelated and Discriminant Colour Space for Facial Expression Recognition	167
Admissibility Analyses for Dynamic Input-Output Economic Models with Multiple Delays	179
Content Based Image Retrieval Using Local Directional Pattern and Color Histogram	197
Time-Minimal Orbital Transfers to Temporarily-Captured Natural Earth Satellites	213
A Chaotic Particle Swarm Optimization Exploiting Snap-Back Repellers of a Perturbation-Based System	237
Modeling and Analysis of the Cyber Infrastructure for Vehicle Route Optimization	255