Contents

1	Analysing Human Walking Using Dynamic Optimisation	1
2	Rearrangement Optimization Problems Related to a Class of Elliptic Boundary Value Problems	35
3	An Extension of the MOON ² /MOON ^{2R} Approach to Many-Objective Optimization Problems Yoshiaki Shimizu	51
4	Existence of Solutions for Variational-Like Hemivariational Inequalities Involving Lower Semicontinuous Maps Guo-ji Tang, Zhong-bao Wang, and Nan-jing Huang	67
5	An Iterative Algorithm for Split Common Fixed-Point Problem for Demicontractive Mappings Yazheng Dang, Fanwen Meng, and Jie Sun	85
6	On Constraint Qualifications for Multiobjective Optimization Problems with Vanishing Constraints S.K. Mishra, Vinay Singh, Vivek Laha, and R.N. Mohapatra	95
7	A New Hybrid Optimization Algorithm for the Estimation of Archie Parameters	137
8	Optimization of Multivariate Inverse Mixing Problems with Application to Neural Metabolite Analysis	155

viii Contents

9	Exact Regularization, and Its Connections to Normal	
	Cone Identity and Weak Sharp Minima in	
	Nonlinear Programming	175
	S. Deng	
10	The Worst-Case DFT Filter Bank Design with Subchannel	
	Variations	183
	Lin Jiang, Changzhi Wu, Xiangyu Wang, and Kok Lay Teo	