## CONTENTS

**Preface** ..... **vii**

**Large Spacecraft Attitude Control by Robust Adaptive Approach** ..... **1**
S. Tsuda and K. Sakano

**A Novel Method to Determine the Hydrodynamic Coefficients of an Eyeball ROV** ..... **11**
Y.-H. Eng, W. S. Lau, E. Low, G. G. L. Seet, and C. S. Chin

**Structured Robust Loop Shaping Control for HIMAT System Using PSO** ..... **23**
S. Kaitwanidvilai, A. Jangwanitlert, and M. Parnichkun

**Real-time Parameter Estimation Method Applied to a MIMO Process and Its Comparison with an Offline Identification Method** ..... **35**
E. Kaplanoğlu, K. K. Şafak, and H. S. Varol

**Optimal Tracking Controller Design for Active Queue Management Routers via LQ-Servo** ..... **46**
K.-M. Lee, J.-H. Yang, and B.-S. Suh

**Effects of Distance between Classes and Training Dataset Size on Imbalance Datasets** ..... **58**
T. N. Huy, S. Foitong, S. Udomthanapong, and O. Pinngern

**Figure and Ground: A Complete Approach to Outlier Detection** ..... **70**
C.-A. Hsiao, H. Chen, K. Furuse, and N. Ohbo

**Improved Fuzzy Clustering Techniques for Categorical Data** ..... **82**
I. Saha and U. Maulik

**Emerging Roles of Agrobacterial Plant-transforming Oncogenes in Plant Defense Reactions** ..... **94**
V. P. Bulgakov, Y. V. Inyushkina, T. Y. Gorpenchenko, O. G. Koren, Y. N. Shkryl, and Y. N. Zhuravlev

**What Makes an Icon Effective?** ..... **104**
A. W. Ng and A. H. S. Chan

**Development of Linear and Differential Video Magnifiers for Inspection Tasks** ..... **115**
F. C. H. Lee and A. H. S. Chan

**Display Factors and Subjective Evaluation of Dynamic Text Display** ..... **123**
J. C. Y. So and A. H. S. Chan

**Formation and Ingestion of Vortices into Jet Engines during Operation** ..... **132**
W. H. Ho and M. Jermy

**Innovative Controlled Drives** ..... **144**
C. Grabner

**Alternative Analytical Method Used in Plotting the Shear Force and Bending Moment Diagrams, Displacements and Rotations Distributions for Beams Subjected to Bending** ..... **156**
C. Marin, V. Filip, and A. Marin

**Assessment of Manual Operation Time for the Manufacturing of Thin Film Transistor Liquid Crystal Display: A Bayesian Approach** . . . . . 168
C.-W. Shen
**Some Sufficient Conditions for Graphs to Be (*g, f, n*)-Critical Graphs** . . . . . 178
S. Zhou, H. Liu, and Z. Duan
**Fabric Cutting as the Multiple Criteria Programming Problem** . . . . . 188
T. Perić and Z. Babić
**Improving Transportation Services for the University of the Thai Chamber of Commerce: A Case Study on Solving the Mixed-fleet Vehicle Routing Problem with Split Deliveries** . . . . . 200
N. Suthikarnnarunai and E. Olinick
**A Decision Support System for Evaluating and Selecting Information Systems Projects** . . . . . 212
H. Deng and S. Wibowo
**Robust Programming Problems Based on the Mean-Variance Model Including Uncertainty Factors** . . . . . 224
T. Hasuike and H. Ishii
**Nonlinear Integer Programming Based on Particle Swarm Optimization** . . . . . 236
T. Matsui, M. Sakawa, K. Kato, and K. Matsumoto
**Two Models of Additional Adjacencies between the Root and Descendants in a Complete Binary Tree Minimizing Total Path Length** . . . . . 244
K. Sawada
**An Interactive Satisficing Method Based on Level Set Optimization for Fuzzy Random Multiobjective Linear Programming Problems** . . . . . 253
H. Katagiri, M. Sakawa, K. Kato, and I. Nishizaki
**Two-level 0-1 Programming through Genetic Algorithms with Sharing Scheme using Cluster Analysis Methods** . . . . . 265
K. Niwa, I. Nishizaki, and M. Sakawa
**A Recursive Algorithm for Triangular Factorization of Inverse of Confluent Vandermonde Matrices** . . . . . 277
S.-H. Hou and E. S.-H. Hou
**Deposition of Colloidal Particles on Homogeneous Surfaces: Integral-Equation Theory and Monte Carlo Simulation** . . . . . 289
P. Danwanichakul

**Author Index** . . . . . 301