

International Journal of Modeling and Optimization

CONTENTS

Volume 6, Number 2, April 2016

• **Modeling and Simulation**

Fast Particle Neighbor Searching for Unlimited Scene with Fluid Refraction Improvement.....71

Sio-Kei Im and Ka-Hou Chan

Simulation of Weld Elbows Hot Forming Process.....77

J. Zajac, P. Beraxa, P. Michal k, F. Botko, and M. Pollák

Common Architecture for Simulation of Critical Infrastructure Interdependencies in Emergency Situations...81

Georgi Kirov, Plamena Zlateva, and Dimiter Velev

An Optimization Model for Large Scale Airspace.....86

Tolebi Sailauov and Z. W. Zhong

• **Applied Mathematics and Numerical Analysis**

Some Properties of Soft Categories.....91

Simge Öztunç

Remarks on the Optimal Portfolio Problem in Discrete Variables with Multiple Stochastic Processes.....96

Naohiro Yoshida and Naoyuki Ishimura

• **Vehicle Modeling and System Analysis**

Spatial Free Vibration Analysis for Truck-Mounted Howitzer.....100

Ragae Ahmed Rateb, Yang Guolai, and Ge Jianle

Research on Fault Tolerant Strategy and Reliability of Steering-by-Wire.....106

Zhongyi Hu, Fengdeng Zhang, and Zhiqiang Wei

• **Electronic Technology and System**

Target Detection and Classification From Sub-optimal Experimental Data Using Principal Component Analysis and Feature Vector Masking.....110

Everett R. Coots, William W. Arrasmith, Eric A. Skowbo, John V. Olson, and Barry Webster

Leader Following Consensus of BLDC Motor Speed with Sampling Intervals.....119

Suhaib Masroor, Chen Peng, Zain Anwar Ali, and Muhammad Aamir

A Piece Wise Linear Memristor Model with Switches.....124

Ahmet Solak and Saadetdin Herdem

