

Table of Contents

Volume 3 Number 1

January 2015

RFID Anti-Counterfeiting for Retailing Systems

D.-T. Tran, S. J. Hong.....1

Single Machine Scheduling with Time-Dependent Learning Effect and Non-Linear Past-Sequence-Dependent Setup Times

Y. L. Yeh, C. Low, W.-Y. Lin.....10

Robust Optimization for a Multi-Product Integrated Problem of Planning and Scheduling under Products Uncertainty

M. W. Chen, C. W. Cao.....16

Design of 3D Space Following Positioning System Based on ZigBee

L. Zhang, X. N. Li, H. H. Zhu, J. Kim.....25

Remarks on the Complexity of Signed k -Domination on Graphs

C.-M. Lee, C.-C. Lo, R.-X. Ye, X. Xu, X.-H. Shi, J.-Y. Li.....32

Enumeration of Strength Three Orthogonal Arrays and Their Implementation in Parameter Design

J. Romero, S. H. Murray.....38

Geometry of the Standard Model of Quantum Physics

C. Daviau, J. Bertrand.....46

Minkowski Sum of Polytopes Defined by Their Vertices

V. Delos, D. Teissandier.....62

Traffic Forecasting and Planning of WiMAX under Multiple Priority Using Fuzzy Time Series Analysis

I. B. Abdullah, D. A. A. Daw, K. B. Seman.....68

Expansion by Laguerre Function for Wave Diffraction around an Infinite Cylinder

M. D. Lv, H. Li, H. L. Ren, X. B. Chen.....75

B-Spline Approximation of Ship Waves on the Free Surface

F. Li, H. Li, H. L. Ren.....81

Characteristics Collocation Method of Compressible Miscible Displacement with Dispersion

N. Ma, X. F. Lu.....86

Profile Design and Numerical Calculation of Instantaneous Flow Rate of a Gerotor Pump

H. Liu, J.-C. Lee, A. Yoon, S.-T. Kim.....92

Volatility Forecasting and Volatility Risk Premium

J. F. Cheng.....98