

Contents

Statistics of Critical Avalanches in Vertical Nanopillar Arrays	1
Zbigniew Domański, Tomasz Derda and Norbert Sczygiol	
Quantum Chemical Study of Point Defects in Tin Dioxide	13
Richard Rivera, Freddy Marcillo, Alexander Chamba, Patricio Puchaicela and Arvids Stashans	
The Investigation of the Adsorption of Thiophene on NiMoS Surface: A Density Functional Theory Study	25
Wahyu Aji Eko Prabowo, Mohammad Kemal Agusta, Nugraha, Subagjo, Ahmad Husin Lubis and Hermawan Kresno Dipojono	
Investigation on Control Issues in Power Converters for Advanced Micro-Grid Operations	41
Tsao-Tsung Ma	
Temporal Characteristics of Wavelet Subbands of Epileptic Scalp EEG Data Based on the Number of Local Min–Max	55
Suparerk Janjarasjitt	
Vibration and Reflection Reduction in Images Captured from Moving Objects Connected Through a Wireless Sensor Network	71
David Afolabi, Nan Zhang, Hai-Ning Liang, Ka Lok Man, Dawei Liu, Eng Gee Lim, T. O. Ting, Yue Yang and Lixin Cheng	
Specifying Resource-Centric Services in Cyber Physical Systems.	83
Kaiyu Wan, Vangalur Alagar and Yuji Dong	

Analyzing the Relationship Between B2B E-Marketplace Adoption and E-Business Performance Using NK Simulation Method	99
Woon Kian Chong, Yan Sun, Nan Zhang and Ka Lok Man	
Computing Implied Volatilities for Exchange-Traded Options on Dividend-Paying Stocks	111
Nan Zhang and Ka Lok Man	
Investigating Polling Cycle Time with Waited-Based DBA in GPONs.	125
I-Shyan Hwang, Jhong-Yue Lee and Tzu-Jui Yeh	
Island-Model-Based Distributed Modified Extremal Optimization for Reducing Crossovers in Reconciliation Graph.	141
Keiichi Tamura, Hajime Kitakami and Akihiro Nakada	
Early-Warning System in Bridge Monitoring Based on Acceleration and Displacement Data Domain.	157
Reni Suryanita and Azlan Adnan	
An Intelligent Train Marshaling Plan of Freight Cars Considering I/O Arrangements	171
Yoichi Hirashima	
A Neural-Network-Based Hand Posture Recognition Method	187
Yea Shuan Huang and Yun Jiun Wang	
Efficient Approach One-Versus-All Binary Tree for Multiclass SVM.	203
Boutkhil Sidaoui and Kaddour Sadouni	
Parametric Control of National Economy's Growth Based on Regional Computable General Equilibrium Model.	215
Abdykappar Ashimov, Yuriy Borovskiy, Bahyt Sultanov, Nikolay Borovskiy, Rakhman Alshanov and Bakytzhan Aisakova	
Integrating Dynamic Composition Estimation with Model Based Control for Ethyl Acetate Production.	231
Weerawun Weerachaipichasgul and Paisan Kittisupakorn	

An Iterative Process for Solving the Constrained Convex Optimization Problem via Fixed Point Methods	247
Tanom Chamnarnpan and Poom Kumam	
A Finite Difference Method for Electrostatics with Curved Boundaries	259
David Edwards	
Modified Iterative Scheme for Multivalued Nonexpansive Mappings, Equilibrium Problems and Fixed Point Problems in Banach Spaces	273
Uamporn Witthayarat, Kriengsak Wattanawitoon and Poom Kumam	
Counting the Number of Multi-player Partizan Cold Games Born by Day d	289
Alessandro Cincotti	
Linear Programming Formulation of Boolean Satisfiability Problem	305
Algirdas Antano Maknickas	
Optimization of Path for Water Transmission and Distribution Systems	323
Ioan Sarbu and Emilian Stefan Valea	
Hierarchical Equilibrium and Generalized Variational Inequality Problems	341
Nopparat Wairojjana and Poom Kumam	
Workforce Scheduling Using the PEAST Algorithm	359
Nico R. M. Kyngäs, Kimmo J. Nurmi and Jari R. Kyngäs	
A New Hybrid Relaxed Extragradient Algorithm for Solving Equilibrium Problems, Variational Inequalities and Fixed Point Problems	373
Supak Phiangsungnoen and Poom Kumam	
Random Fuzzy Multiobjective Linear Programming with Variance Covariance Matrices	391
Hitoshi Yano and Kota Matsui	

The Different Ways of Using Utility Function with Multi-choice Goal Programming	407
Ching-Ter Chang and Zheng-Yun Zhuang	
A New Viscosity Cesàro Mean Approximation Method for a General System of Finite Variational Inequalities and Fixed Point Problems in Banach Spaces	419
Poom Kumam, Somyot Plubtieng and Phayap Katchang	
Optimal Models for Adding Relation to an Organization Structure with Different Numbers of Subordinates at Each Level	435
Kiyoshi Sawada, Hidefumi Kawakatsu and Takashi Mitsuishi	
Author Index	447
Subject Index	449

Transactions on Engineering Technologies
International MultiConference of Engineers and
Computer Scientists 2013

Yang, G.-C.; Ao, S.-I.; Huang, X.; Castillo, O. (Eds.)

2014, X, 451 p. 145 illus., Hardcover

ISBN: 978-94-007-7683-8