Table of Contents

Internationalisation and Localisation of a Wireless Response System for the Arabic Language Abduladim Ali and Joan Lu	1
Semi-Analytic Modelling of Stratified Flows. Theory and Applications Nikolay Makarenko, Janna Maltseva, and Alexander Cherevko	9
Minimizing Total Tardiness in a Hybrid Flexible Flowshop with Sequence Dependent Setup Times Aymen Sioud, Caroline Gagne, and Marc Gravel	13
An Evaluation of Smoothing Filters for Gas Sensor Signal Cleaning Enobong Bassey, Jacqueline Whalley, and Philip Sallis	19
Using Mobile Serious Games for Learning Programming Jiayi Zhang and Joan Lu	24
CUDA Accelerated Entropy Constrained Vector Quantization and Multiple K-Means John Ashley and Amy Braverman	30
Scheduling periodic Tasks on Multiple Periodic Resources Xiayu Hua, Zheng Li, Hao Wu, and Shangping Ren	35
P2P4GS: A Specification for Services Management in Peer-to-Peer Grids Bassirou Gueye, Olivier Flauzac, Cyril Rabat, and Ibrahima Niang	41
Benchmarking the Problem of Optimal Autonomous Systems Aggregation on Different Computer Architectures Leszek Borzemski, Michal Danielak, and Grzegorz Kotowski	47
The Designing and Implementation of a Smart Home System with Wireless Sensor/Actuator and Smartphone <i>Omar Ghabar and Joan Lu</i>	56
Outage Probability of Full-duplex Systems in Multi-spectrum Environments Jaeyeong Choi, Seunglae Kam, Dongkyu Kim, and Daesik Hong	65
Testing of feasibility of QKD system deployment in commercial metropolitan fiber networks Monika Jacak, Damian Melniczuk, Lucjan Jacak, Ireneusz Jozwiak, and Piotr Jozwiak	70
Decision Making and Taking in Changing Ecologies Considering Network Law Simon Reay Atkinson, Gregory Tolhurst, and Liaquat Hossain	76
Flow Adjustment – a Flexible Routing Strategy for Demand Protection Against Multiple Partial Link Failures	83

Yoann Fouquet, Dritan Nace, Michal Pioro, and Michael Poss	
Agent Supported QoS Management Malgorzata Pankowska and Wojciech Kamieniecki	91
Ontology-based Management of a Network for Distributed Control System Dariusz Choinski, Michal Senik, and Bartosz Pietrzyk	97
Fairness Improvement of Multiple-Bottleneck Flow in Data Center Networks Kenta Matsushima, Yuki Tanisawa, and Miki Yamamoto	103
Multi-layer Power Saving System Model Including Virtualization Server and Many-core Server Joon-young Jung, Dong-oh Kang, Heong-jik Lee, Jang-ho Choi, and Chang-seok Bae	109
Trans-Organizational Role-Based Access Control in Android Jason Paul Cruz and Yuichi Kaji	114
Scalable, Self-configurable Eduroam by using Distributed Hash Table Hiep T. Nguyen Tri, Rajashree S. Sokasane, and Kyungbaek Kim	120
Integrated Learning Environment for Smart Grid Security Kewen Wang, Yi Pan, Wenzhan Song, Weichao Wang, and Le Xie	126
A SAML Metadata Broker for Dynamic Federations and Inter-Federations Daniela Pohn, Stefan Metzger, and Wolfgang Hommel	132
Intrusions Detection System Based on Ubiquitous Network Nodes Lynda Sellami, Djilali Idoughi, and Abderrahmane Baadache	138
Fast Person Identification Using JPEG2000 Compressed ECG Data Yi-Ting Wu, Hung-Tsai Wu, and Wen-Whei Chang	144
Teaching Networking: A Hands-on Approach that Relies on Emulation-based Projects Antonio Nogueira and Paulo Salvador	149
Computing Optimised Result Matrices for the Processing of Objects from Knowledge Resources Claus-Peter Ruckemann	156
Research on Classification of Fiber Intrusion Signal Based on Supported Vector Machines Jie Zhu	163
A Constraint-Based Graphical Approach to Modelling Construction Systems: An alternative to discrete-event simulation	168