

Table of Contents

A Novel Realization of Sequential Reversible Building Blocks <i>Vishal Pareek, Shubham Gupta, and Sushil Chandra Jain</i>	1
Improved AODV Protocol to Detect and Avoid Black Hole Nodes in MANETs <i>Muneer Bani Yassein, Yaser Khamayseh, and Bahaa Nawafleh</i>	7
Building a Portable Talking Medicine Reminder for Visually Impaired Persons <i>Hsiao Ping Lee and Tzu-Fang Sheu</i>	13
Physarum Syllogistic L-Systems <i>Andrew Schumann</i>	15
Using Fuzzy Inference System to Estimate the Minimized Effective Dose and Critical Organ in Pediatric Nuclear Medicine <i>Ying Bai and Dali Wang</i>	21
Level-Synchronous Parallel Breadth-First Search Algorithms For Multicore and Multiprocessor Systems <i>Rudolf Berrendorf and Mathias Makulla</i>	26
Multi-Level Queue-Based Scheduling for Virtual Screening Application on Pilot-Agent Platforms on Grid/Cloud to Optimize the Stretch <i>Bui The Quang, Nguyen Hong Quang, Emmanuel Medernach, and Vincent Breton</i>	32
Power Aware Work Stealing in Homogeneous Multi-Core Systems <i>Shwetha Shankar, Greg Lakowski, Claudia Alvarado, Richard Hay, Christopher Hyatt, Dan Tamir, and Apan Qasem</i>	40
Protecting and Sharing of Semantically-Enabled, User-Orientated Electronic Laboratory Notebook Focusing on a Case Study in the e-Science Domain <i>Tahir Farooq, Richard Kavanagh, Peter Dew, and Zulkifly Mohd Zaki</i>	50
Intelligent BEE Method for Matrix-vector Multiplication on Parallel Computers <i>Seiji Fujino, Yusuke Onoue, and George Abe</i>	59
A Network Architecture for Distributed Event-Based Systems in an Ubiquitous Sensing Scenario <i>Cristina Munoz and Pierre Leone</i>	65
An Improvement on Acceleration of Distributed SMT Solving <i>Leyuan Liu, Weiqiang Kong, Takahiro Ando, Hirokazu Yatsu, and Akira Fukuda</i>	69
Merchant Facial Expressions and Customer Trust in Virtual Shopping Environment	76

Nasser Nassiri and David Moore