

Table of Contents

International Journal of Software Innovation

Volume 4 • Issue 1 • January-March-2016 • ISSN: 2166-7160 • eISSN: 2166-7179

An official publication of the Information Resources Management Association

Research Articles

- 1 **Evaluation of Kernel Based Atanassov's Intuitionistic Fuzzy Clustering for Network Forensics and Intrusion Detection**
Anupam Panwar, Symantec Corporation, Bangalore, India

- 16 **Metamorphic Relations Based Test Oracles for Image Processing Applications**
Tahir Jameel, Beihang University, Beijing, China
Mengxiang Lin, Beihang University, Beijing, China
Liu Chao, Beihang University, Beijing, China

- 31 **Energy-Efficient Computing Solutions for Internet of Things with ZigBee Reconfigurable Devices**
Grzegorz Chmaj, Department of Electrical and Computer Engineering, University of Nevada, Las Vegas, Las Vegas, NV, USA
Henry Selvaraj, Department of Electrical and Computer Engineering, University of Nevada, Las Vegas, Las Vegas, NV, USA

- 48 **Multithreading MAS Platform for Real-Time Scheduling**
Yaroslav Shepilov, SEC "Smart Solutions" Ltd., Samara, Russia
Daria Pavlova, SEC "Smart Solutions" Ltd., Samara, Russia
Daria Kazanskaia, SEC "Smart Solutions" Ltd., Samara, Russia

- 61 **Using DRAM as Cache for Non-Volatile Main Memory Swapping**
Hirotaka Kawata, Department of Computer Science, University of Tsukuba, Tsukuba, Japan
Gaku Nakagawa, Department of Computer Science, University of Tsukuba, Tsukuba, Japan
Shuichi Oikawa, Department of Computer Science, University of Tsukuba, Tsukuba, Japan

COPYRIGHT

The **International Journal of Software Innovation (IJSI)** (ISSN 2166-7160; eISSN 2166-7179), Copyright © 2016 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without written permission from the publisher, except for noncommercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark. The views expressed in this journal are those of the authors but not necessarily of IGI Global.

The *International Journal of Software Innovation* is indexed or listed in the following: Cabell's Directories; INSPEC; MediaFinder; The Standard Periodical Directory; Ulrich's Periodicals Directory