

# International Journal of Grid and High Performance Computing

April-June 2015, Vol. 7, No. 2

## Table of Contents

### RESEARCH ARTICLES

- 1 **Independent Tasks Scheduling using Parallel PSO in Multiprocessor Systems**  
*Sunil Kumar Singh*School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi, India  
*Deo Prakash Vidyarthi*School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi, India
- 18 **Exploring Vectorization and Prefetching Techniques on Scientific Kernels and Inferring the Cache Performance Metrics**  
*J. Saira Banu*School of Computing Science and Engineering, VIT University, Vellore, India  
*M. Rajasekhara Babu*School of Computing Science and Engineering, VIT University, Vellore, India
- 37 **An Anonymous Email Identification Solution based on Writing Structural Patterns**  
*Yanhua Liu*College of Mathematics and Computer Science, Fuzhou University, Fuzhou, China and Fujian Provincial Key Laboratory of Network Computing and Intelligent Information Processing, Fuzhou, China  
*Guolong Chen*College of Mathematics and Computer Science, Fuzhou University, Fuzhou, China and Fujian Provincial Key Laboratory of Network Computing and Intelligent Information Processing, Fuzhou, China  
*Yiyun Zhang*College of Mathematics and Computer Science, Fuzhou University, Fuzhou, China and Fujian Provincial Key Laboratory of Network Computing and Intelligent Information Processing, Fuzhou, China
- 50 **A Novel Multi-Dimension Resource Recycling Mechanism for Cloud Data Centers**  
*Hong-Yi Chang*Department of Management Information Systems, National Chiayi University, Chiayi, Taiwan  
*Tu-Liang Lin*Department of Management Information Systems, National Chiayi University, Chiayi, Taiwan  
*Cheng-Kai Huang*Department of Management Information Systems, National Chiayi University, Chiayi, Taiwan
- 65 **A Self-Adaptive Prediction Algorithm for Cloud Workloads**  
*Li Mao*Research Institute of Computer Systems, South China University of Technology, Guangzhou, China & Department of Computer Science, Guang Dong Police Officer College, Guangzhou, China  
*Deyu Qi*Research Institute of Computer Systems, South China University of Technology, Guangzhou, China  
*Weiwei Lin*School of Computer Science and Engineering, South China University of Technology, Guangzhou, China  
*Chaoyue Zhu*School of Computer Science and Engineering, South China University of Technology, Guangzhou, China
- 77 **Apriori-based High Efficiency Load Balancing Parallel Data Mining Algorithms on Multi-core Architectures**  
*Kun-Ming Yu*Department of Computer Science and Information Engineering, Chung Hua University, Hsinchu, Taiwan  
*Sheng-Hui Liu*School of Software, Harbin University of Science and Technology, Harbin, China  
*Li-Wei Zhou*School of Software, Harbin University of Science and Technology, Harbin, China  
*Shu-Hao Wu*Department of Computer Science and Information Engineering, Chung Hua University, Hsinchu, Taiwan

### Copyright

The International Journal of Grid and High Performance Computing (IJGHPC) (ISSN 1938-0259; eISSN 1938-0267), Copyright © 2015 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 Grid and High Performance Computing is indexed or listed in the following: ACM Digital Library; Bacon's Media Directory; Cabell's Directories; Compendex (Elsevier Engineering Index); DBLP; GetCited; Google Scholar; INSPEC; JournalTOCs; MediaFinder; SCOPUS; The Standard Periodical Directory; Ulrich's Periodicals Directory