

Table of Contents

International Journal of Grid and High Performance Computing

Volume 9 • Issue 2 • April-June-2017 • ISSN: 1938-0259 • eISSN: 1938-0267

An official publication of the Information Resources Management Association

Research Articles

- 1 **Resource Efficient Clustering and Next Hop Knowledge Based Routing in Multiple Heterogeneous Wireless Sensor Networks**
Sunil Kumar, ABES Engineering College, Ghaziabad, India
Priya Ranjan, Amity University Uttar Pradesh, Noida, India
Radhakrishnan Ramaswami, ABES Engineering College, Ghaziabad, India
Malay Ranjan Tripathy, Amity University, Noida, India

- 21 **Assessing Experimental Private Cloud Using Web of System Performance Model**
Adib Habbal, Universiti Utara Malaysia, Kedah, Malaysia
Siti Aminah Abdullah, Universiti Utara Malaysia, Kedah, Malaysia
Emmanuel O.C. Mkpojiogu, Universiti Utara Malaysia, Kedah, Malaysia
Suhaidi Hassan, Universiti Utara Malaysia, Kedah, Malaysia
Nabil Benamar, Moulay Ismail University of Meknes, Meknes, Morocco

- 36 **Defining and Evaluating A Novel Penalty Model for Managing Violations in the Cloud Computing**
Adil Maarouf, Computer, Networks, Mobility and Modeling Laboratory, Department of Mathematics and Computer, FST, Univ Hassan 1st, Settat, Maroc
Bouchra El Qacimy, Laboratory LRGE, ENSET of Rabat, Mohamed V University, Morocco
Abderrahim Marzouk, Computer, Networks, Mobility and Modeling Laboratory, Department of Mathematics and Computer, FST, Univ Hassan 1st, Settat, Maroc
Abdelkrim Haqiq, Computer, Networks, Mobility and Modeling Laboratory, Department of Mathematics and Computer, FST, Univ Hassan 1st, Settat, Maroc

- 53 **Competitive Processors Allocation in 2D Mesh Connected Multicomputer Networks: A Dynamic Game Approach**
Ayoub Alsarhan, Hashemite University, Zarqa, Jordan
Emad Eddien Awad Abdallah, Hashemite University, Zarqa, Jordan
Ashraf H. Aljammal, Hashemite University, Zarqa, Jordan

- 70 **Parallel Distributed Patterns Mining Using Hadoop MapReduce Framework**
Ishak H. A. Meddah, University of Sciences and Technology of Oran “Mohamed Boudiaf” (USTO-MB), Oran, Algeria
Khaled Belkadi, University of Sciences and Technology of Oran “Mohamed Boudiaf” (USTO-MB), Oran, Algeria

COPYRIGHT

The **International Journal of Grid and High Performance Computing (IJGHPC)** (ISSN 1938-0259; eISSN 1938-0267), Copyright © 2017 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; Web of Science (All Journals); Web of Science Emerging Sources Citation Index (ESCI)