

International Journal of Distributed Systems and Technologies

October-December 2015, Vol. 6, No. 4

Table of Contents

RESEARCH ARTICLES

- 1 **An Architecture to Implement the Internet-of-Things using the Prometheus Methodology**
Bogdan Manafte, Department of Computer Science, West University of Timișoara, Timișoara, Romania
Florin Fortiș, Department of Computer Science, West University of Timișoara, Timișoara, Romania
Philip Moore, School of Information Science and Engineering, Lanzhou University, Lanzhou, China

- 21 **Towards Transparent Throughput Elasticity for IaaS Cloud Storage: Exploring the Benefits of Adaptive Block-Level Caching**
Bogdan Nicolae, IBM Research, Dublin, Ireland
Pierre Riteau, University of Chicago, Chicago, IL, USA
Kate Keahey, Argonne National Laboratory, Lemont, IL, USA

- 45 **A Two-Dimensional SLA for Services Scheduling in Multiple IaaS Cloud Providers**
Cristiano Costa Argemon Vieira, Faculty of Computing, Federal University of Mato Grosso do Sul, Campo Grande, Brazil
Luiz Fernando Bittencourt, Institute of Computing, University of Campinas, Campinas, Brazil
Edmundo Roberto Mauro Madeira, Institute of Computing, University of Campinas, Campinas, Brazil

- 65 **The Impact of Virtualization on High Performance Computing Clustering in the Cloud**
Ouidad Achahbar, Al Akhawayn University, Ifrane, Morocco
Mohamed Riduan Abid, Al Akhawayn University, Ifrane, Morocco

Copyright

The **International Journal of Distributed Systems and Technologies (IJ DST)** (ISSN 1947-3532; eISSN 1947-3540), 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 Distributed Systems and Technologies* is indexed or listed in the following: ACM Digital Library; Bacon's Media Directory; Cabell's Directories; Compendex (Elsevier Engineering Index); DBLP; Google Scholar; INSPEC; JournalTOCs; Library & Information Science Abstracts (LISA); Linguistics & Language Behavior Abstracts (LLBA); MediaFinder; SCOPUS; The Standard Periodical Directory; Ulrich's Periodicals Directory