Table of Contents

International Journal of Distributed Systems and Technologies

Volume 10 • Issue 2 • April-June-2019 • ISSN: 1947-3532 • eISSN: 1947-3540

An official publication of the Information Resources Management Association

SPECIAL ISSUE OF RESEARCH DIRECTIONS FOR THE INTERNET OF THINGS GUEST EDITORIAL PREFACE

vii Amit Ganatra, Charotar University of Science And Technology, Nadiad, India Chintan Bhatt, Charotar University of Science And Technology, Anand, India Dmitry Korzun, Petrozavodsk State University, Petrozavodsk, Russia

RESEARCH ARTICLES

1 Exploring Visual Analytics to Measure Reliability for IoT Oriented Pollution Detection Software Perspectives

Nishi Kant Kumar, BIT Mesra, India Soumya Banerjee, Birla Institute of Technology, Mesra, India

20 Individual Client Strategies for Active Control of Information-Driven Service Construction in IoT-enabled Smart Spaces

Olga Bogoiavlenskaia, Petrozavodsk State University, Russian Federation Andrey Vdovenko, Petrozavodsk State University, Russian Federation Dmitry G. Korzun, Petrozavodsk State University, Russian Federation Alexey Kashevnik, SPIIRAS, Russian Federation

37 Parallel Applications Mapping onto Network on Chip Based on Heterogeneous MPSoCs Using Hybrid Algorithms

Dihia Belkacemi, LARI Laboratory, Tizi-Ouzou University, Algeria, Algeria Mehammed Daoui, LARI Laboratory, Tizi-Ouzou University, Algeria, Algeria Samia Bouzefrane, Conservatoire National des Arts et Métiers, Paris, France Youcef Bouchebaba, Onera, Palaiseau, France

64 Innovative Outlier Removal Techniques to Enhance Signature Authentication Accuracy for Smart Society

Anindita Desarkar, Jadavpur University, Kolkata, India Shisna Sanyal, Jadavpur University, Kolkata, India Anupam Baidya, Jadavpur University, Kolkata, India Ajanta Das, University of Engineering & Management, Kolkata, India Chitrita Chaudhuri, Jadavpur University, Kolkata, India

84 Replica Reduced Routing Protocol for Intermittent Connected Networks in Emergency Scenarios

M. Syed Rabiya, Department of Computer Science and Engineering, Kalasalingam Academy of Research and Education, Krishnankoil, India R. Ramalakshmi, Department of Computer Science and Engineering, Kalasalingam Academy of Research and Education, Krishnankoil, India

110 Model-Based Application Deployment on Cloud Computing

Aouat Asmaa, University of Oran1 Ahmed Ben Bella, Laboratory of Parallel, Embedded Architectures and High Performance, Oran, Algeria Deba El Abbassia, University of Oran1 Ahmed Ben Bella, Laboratory of Parallel, Embedded Architectures and High Performance, Oran, Algeria Benyamina Abou EL Hassan, University of Oran1 Ahmed Ben Bella, Laboratory of Parallel, Embedded Architectures and High Performance, Oran, Algeria

Benhamamouch Djilali, University of Oran1 Ahmed Ben Bella, Laboratory of Parallel, Embedded Architectures and High Performance, Oran, Algeria

Copyright

The International Journal of Distributed Systems and Technologies (IJDST) (ISSN 1947-3532; eISSN 1947-3540), Copyright © 2019 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; Web of Science; Web of Science Emerging Sources Citation Index (ESCI)