# Table of Contents

## International Journal of Web Services Research

Volume 17 • Issue 1 • January-March-2020 • ISSN: 1545-7362 • eISSN: 1546-5004

## Editorial Preface

iv  Cloud Edge Computing  
Liang-Jie Zhang, Kingdee International Software Group Co. Ltd., China

## Research Articles

1  A Decentralized PageRank Based Content Dissemination Model at the Edge of Network  
Xin Zhang, Institute of Acoustics, Chinese Academy of Sciences, University of Chinese Academy of Sciences, Huairou, China  
Jiali You, Institute of Acoustics, Chinese Academy of Sciences, University of Chinese Academy of Sciences, Huairou, China  
Hanxing Xue, Institute of Acoustics, Chinese Academy of Sciences, University of Chinese Academy of Sciences, Huairou, China  
Jinlin Wang, Institute of Acoustics, Chinese Academy of Sciences, University of Chinese Academy of Sciences, Huairou, China

17  Applying Digital Forensics to Service Oriented Architecture  
Aymen Akremi, Umm Al-Qura University (UQU), Makkah, Saudi Arabia  
Hassen Sallay, Umm Al-Qura University (UQU), Makkah, Saudi Arabia  
Mohsen Rouached, University of Bahrain, Manama, Bahrain  
Rafik Bouaziz, University of Sfax, Sfax, Tunisia

43  A Well-Organized Safeguarded Access on Key Propagation by Malleable Optimization in Blend With Double Permutation  
A. Sathish, M.A.M. College of engineering, Trichy-Chennai Trunk Road, Siruganur, India  
S. Ravimaran, M.A.M. College of engineering, Trichy-Chennai Trunk Road, Siruganur, India  
S. Jerald Nirmal Kumar, St. Annes College of Engineering and Technology, Anguchettypalyam, India

64  A Neuro-Fuzzy Approach to Detect Rumors in Online Social Networks  
Santhoshkumar Srinivasan, Vellore Institute of Technology, Vellore, India  
Dhinesh Babu L.D., Vellore Institute of Technology, Vellore, India

## COPYRIGHT

The International Journal of Web Services Research (IJWSR) (ISSN 1545-7362; eISSN 1546-5004), Copyright © 2020 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 or 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 Web Services Research is indexed or listed in the following: ABI/Inform; ACM Digital Library; Bacon's Media Directory; Burrelle's Media Directory; Cabell's Directories; Compendex (Elsevier Engineering Index); CSA Illumina; Current Contents®/Engineering, Computing, & Technology; DBLP; DEST Register of Refereed Journals; EBSCOhost's Library/Information Science & Technology Abstracts with FullTEXT; Gale Directory of Publications & Broadcast Media; GetCited; Google Scholar; INSPEC; JournalTOCs; Library & Information Science Abstracts (LISA); MediaFinder; Norwegian Social Science Data Services (NSD); PubList.com; SCOPUS; The Index of Information Systems Journals; The Standard Periodical Directory; Ulrich’s Periodicals Directory; Web of Science; Web of Science Science Citation Index Expanded (SCIE)