

# Table of Contents

## International Journal of Knowledge Society Research

Volume 7 • Issue 3 • July-September-2016 • ISSN: 1947-8429 • eISSN: 1947-8437

*An official publication of the Information Resources Management Association*

### Research Articles

- 1     **Opportunities and Challenges for Civic Engagement: A Global Investigation of Innovation Competitions**  
Sarah Hartmann, Heinrich Heine University Düsseldorf, Düsseldorf, Germany  
Agnes Mainka, Heinrich Heine University Düsseldorf, Düsseldorf, Germany  
Wolfgang G. Stock, Heinrich Heine University Düsseldorf, Düsseldorf, Germany
  
- 16    **Digital City Projects: Information and Public Services Offered by Chicago (USA) and Curitiba (Brazil)**  
Denis Alcides Rezende, Pontificia Universidade Católica do Paraná (PUCPR), Curitiba, Brazil
  
- 31    **Knowledge Cooperation Opportunities between Saudi Arabia and the BRICS**  
Abdulkader Alfantookh, Saudi Research and Marketing Group (SRMG), Riyadh, Saudi Arabia  
Saad Haj Bakry, King Saud University, Riyadh, Saudi Arabia
  
- 47    **PMOMM: The Project Management Office Maturity Model**  
Ana Stroe, Utrecht University, Utrecht, Netherlands  
Marco Spruit, Utrecht University, Utrecht, Netherlands  
Bastiaan Beltman, Celcus BV, Soesterberg, Netherlands  
Steven Johannes Koelemeijer, Celcus BV, Soesterberg, Netherlands
  
- 62    **Comprehensive Study on Keyword Search on Semi Structured Data**  
Dayananda P., JSSATE, Bangalore, India  
Sowmyarani C. N., RVCE, Bangalore, India
  
- 86    **Byzantine Fault-Tolerant Architecture in Cloud Data Management**  
Mohammed A. AlZain, College of Computers and Information Technology, Taif University, Taif, Saudi Arabia  
Alice S. Li, La Trobe Business School, La Trobe University, Bundoora, Australia  
Ben Soh, School of Engineering and Mathematical Sciences, La Trobe University, Bundoora, Australia  
Mehedi Masud, College of Computers and Information Technology, Taif University, Taif, Saudi Arabia
  
- 99    **Improving Collaborative Filtering Algorithms: Sentiment-based Approach in Social Network**  
Firas Ben Kharrat, IHEC, University of Carthage, Carthage, Tunisia  
Aymen Elkhleifi, LaLIC, Paris-Sorbonne University, Paris, France  
Rim Faiz, IHEC, University of Carthage, Carthage, Tunisia

### COPYRIGHT

The **International Journal of Knowledge Society Research (IJKSR)** (ISSN 1947-8429; eISSN 1947-8437), Copyright © 2016 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 Knowledge Society Research* is indexed or listed in the following: ACM Digital Library; Bacon's Media Directory; Cabell's Directories; DBLP; Google Scholar; INSPEC; JournalTOCS; MediaFinder; The Standard Periodical Directory; Ulrich's Periodicals Directory