

Table of Contents

International Journal of Data Warehousing and Mining

Volume 12 • Issue 3 • July-September-2016 • ISSN: 1548-3924 • eISSN: 1548-3932

An official publication of the Information Resources Management Association

Research Articles

- 1 **Data Approximation for Time Series Data in Wireless Sensor Networks**
Xiaobin Xu, Beijing University of Posts and Telecommunications, Beijing, China

- 14 **A Cached-Based Stream-Relation Join Operator for Semi-Stream Data Processing**
M. Asif Naeem, School of Engineering, Computer and Mathematical Sciences, Auckland University of Technology, Auckland, New Zealand
Imran Sarwar Bajwa, School of Computer Science, University of Birmingham, Birmingham, UK
Noreen Jamil, School of Engineering, Computer and Mathematical Sciences, Auckland University of Technology, Auckland, New Zealand

- 32 **Optimizing ETL by a Two-Level Data Staging Method**
Xiufeng Liu, Department of Management Engineering, Technical University of Denmark, Kongens Lyngby, Denmark
Nadeem Iftikhar, University College of Northern Denmark, Aalborg, Denmark
Huan Huo, Shanghai University of Science and Technology, China
Per Sieverts Nielsen, Technical University of Denmark, Kongens Lyngby, Denmark

- 51 **A Workload Assignment Strategy for Efficient ROLAP Data Cube Computation in Distributed Systems**
Ilhyun Suh, Department of IT Convergence, Korea University, Seoul, South Korea
Yon Dohn Chung, Department of Computer Science and Engineering, Korea University, Seoul, South Korea

COPYRIGHT

The **International Journal of Data Warehousing and Mining (IJDW)** (ISSN 1548-3924; eISSN 1548-3932), 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 Data Warehousing and Mining* is indexed or listed in the following: ACM Digital Library; Australian Business Deans Council (ABDC); 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; Gale Directory of Publications & Broadcast Media; GetCited; Google Scholar; INSPEC; Journal Citation Reports/Science Edition; JournalTOCs; Library & Information Science Abstracts (LISA); MediaFinder; Science Citation Index Expanded (SciSearch®); SCOPUS; The Index of Information Systems Journals; The Standard Periodical Directory; Thomson Reuters; Ulrich's Periodicals Directory; Web of Science