

INTERNATIONAL JOURNAL OF BUSINESS DATA COMMUNICATIONS AND NETWORKING

April-June 2013, Vol. 9, No. 2

Table of Contents

SPECIAL ISSUE ON GREEN NETWORKING AND COMPUTING

EDITORIAL PREFACE

- iv *Debashis Saha, MIS Group, Indian Institute of Management-Calcutta, Joka, Kolkata, Calcutta, India*
Varadharajan Sridhar, Sasken Communication Technologies, Domlur, Bangalore, India

GUEST EDITORIAL PREFACE

- vii *Josip Lorincz, FESB, University of Split, Split, Croatia*
Jin-song Wu, Bell Laboratories, Shanghai, China
Lin-jia Liu, Department of Electrical Engineering and Computer Science, University of Kansas, USA

RESEARCH ARTICLES

- 1 **Energy Consumption Effects of WiFi Off-Loading Access in 3G or LTE Public Wireless Networks**
L.F. Pau, Faculty of Mobile Business, Copenhagen Business School, Frederiksberg, Denmark & Erasmus University, Rotterdam, Netherlands & University of Pretoria, Pretoria, South Africa
- 11 **Energy-Efficient Wireless Cellular Communications through Network Resource Dynamic Adaptation**
Josip Lorincz, FESB, University of Split, Split, Croatia
- 27 **The TREND Meter: Monitoring the Energy Consumption of Networked Devices**
Luca Chiaraviglio, DIET Department, University of Rome "La Sapienza", Roma, Italy
Roberto Bruschi, Inter-university Consortium for Telecommunications (CNIT), Genoa, Italy
Antonio Cianfrani, DIET Department, University of Rome "La Sapienza", Roma, Italy
Olga Maria Jaramillo Ortiz, DITEN, University of Genoa, Genoa, Italy
George Koutitas, School of Science and Technology, International Hellenic University, Thessaloniki Moudania, Greece
- 45 **Efficient Forwarding With Power Saving and Load Balancing In Wireless Sensor Networks**
Hanan Idoudi, National School of Computer Science, University of Manouba, Manouba, Tunisia

Copyright

The **International Journal of Business Data Communications and Networking (IJBCDN)** (ISSN 1548-0631; eISSN 1548-064X), Copyright © 2013 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 Business Data Communications and Networking* is listed or indexed in the following: ACM Digital Library; Bacon's Media Directory; Burrelle's Media Directory; Cabell's Directories; Compendex (Elsevier Engineering Index); CSA Illumina; DBLP; DEST Register of Refereed Journals; Gale Directory of Publications & Broadcast Media; GetCited; Google Scholar; JournalTOCs; MediaFinder; Norwegian Social Science Data Services (NSD); SCOPUS; The Index of Information Systems Journals; The Standard Periodical Directory; Ulrich's Periodicals Directory