

# INTERNATIONAL JOURNAL OF WIRELESS NETWORKS AND BROADBAND TECHNOLOGIES

October-December 2012, Vol. 2, No. 4

## Table of Contents

### RESEARCH ARTICLES

- 1 Re-Purposeable Learning Objects Based on Teaching and Learning Styles**  
*Jeremy Dunning, Department of Geology, Indiana University, Bloomington, IN, USA & Arjuna Learning Designs, USA & Open University of Malaysia, Kuala Lumpur, Malaysia*  
*Kellie Donoghue, Department of Geology, Indiana University, Bloomington, IN, USA*  
*Abtar Kaur, Open University of Malaysia, Kuala Lumpur, Malaysia*  
*David Daniels, Pearson Learning Solutions, Indianapolis, IN, USA*
- 12 Emerging Technologies in Transportation Systems: Challenges and Opportunities**  
*Antonio Guerrero-Ibáñez, University of Colima, Colima, Mexico*  
*Carlos Flores-Cortés, University of Colima, Colima, Mexico*  
*Pedro Damián-Reyes, University of Colima, Colima, Mexico*  
*JRG Pulido, University of Colima, Colima, Mexico*
- 41 Cultural Adaption of Hypermedia: A Contemporary State of the Art of Industrial Practice and Improvements by Multi-Trees**  
*Judith Dödtmann, DMCC–Dialog Marketing Competence Center, University of Kassel, Kassel, Germany*  
*Ralf Wagner, DMCC–Dialog Marketing Competence Center, University of Kassel, Kassel, Germany*
- 51 Doubly Optimal Secure and Protected Multicasting in Hierarchical Sensor Networks**  
*Samdarshi Abhijeet, International Institute of Information Technology, Hyderabad, Andhra Pradesh, India*  
*Garimella Rama Murthy, International Institute of Information Technology, Hyderabad, Andhra Pradesh, India*

### Copyright

The *International Journal of Wireless Networks and Broadband Technologies* (ISSN 2155-6261; eISSN 2155-627X). Copyright © 2012 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.

IJWNBT is currently listed or indexed in: ACM Digital Library; Bacon's Media Directory; Cabell's Directories; DBLP; Google Scholar; INSPEC; JournalTOCs; MediaFinder; ProQuest Advanced Technologies & Aerospace Journals; ProQuest Computer Science Journals; ProQuest Illustrata Technology; ProQuest SciTech Journals; ProQuest Technology Journals; The Standard Periodical Directory; Ulrich's Periodicals Directory