

ISSN: 1913-3715

Volume 6, Number 6, June 2013



Scientific  
Research

# International Journal of Communications, Network and System Sciences



[www.scirp.org/journal/ijcns/](http://www.scirp.org/journal/ijcns/)

# JOURNAL EDITORIAL BOARD

ISSN 1913-3715 (Print) ISSN 1913-3723 (Online)

<http://www.scirp.org/journal/ijcns/>

---

## Editor-in-Chief

Prof. Boris S. Verkhovsky New Jersey Institute of Technology, USA

## Editorial Advisory Board

Prof. Staraj K. Sahni University of Florida, USA

Prof. Innokentiy V. Semushin Ulyanovsk State University, Russia

Prof. Lotfi A. Zedeh University of California, Berkeley, USA

## Editorial Board

Prof. Andranik S. Akopov National Research University, Russia  
Prof. Sabri Arik Istanbul University, Turkey  
Prof. Satya N. Atluri University of California, Irvine, USA  
Prof. Jalel Ben-Othman University of Paris, France  
Prof. Alain Bernard Ecole Centrale de Nantes, France  
Prof. Ko Chi Chung National University of Singapore, Singapore  
Prof. Daniel B. da Costa Federal University of Ceará, Brazil  
Dr. Franca Delmastro National Research Council, Italy  
Prof. Sasa Divjak Ljubljana University, Slovenia  
Prof. Md. B. El-Mashade Al-Azhar University, Egypt  
Prof. Kurt J. Engemann Iona College, USA  
Prof. Morteza Esmaeili Isfahan University of Technology, Iran  
Prof. David J. Farber Carnegie Mellon University, USA  
Prof. George Ghinea Brunel University, UK  
Prof. Richard Tabor Greene Keio University, Japan  
Prof. William A. Gruver Simon Fraser University, Canada  
Prof. Ehud Gudes Ben-Gurion University of the Negev, Israel  
Prof. H. Barry Harrison Griffith University, Australia  
Dr. Zhiyi Huang University of Otago, New Zealand  
Prof. Anca Daniela Ionita University POLITEHNICA of Bucharest, Romania  
Prof. Hiroaki Ishii Kwansai Gakuin University, Japan  
Dr. Markus Jakobsson PayPal, USA  
Dr. Chris Joslin Carleton University, Canada  
Dr. Dimitri Kanevsky IBM T. J. Watson Research Center, USA  
Prof. Jozef Kelemen Silesian University, Czech Republic  
Prof. Alexander M. Korsunsky Oxford University, UK  
Prof. Felipe Lara-Rosano National Autonomous University of Mexico, Mexico  
Prof. Shahram Latifi University of Nevada, Las Vegas, USA  
Dr. Nicola Mastronardi National Research Council, Italy  
Prof. Jaime Lloret Mauri Polytechnic University of Valencia, Spain  
Prof. Lyudmila Mihaylova Lancaster University, UK  
Prof. Yuriy S. Polyakov New Jersey Institute of Technology, USA  
Prof. Jianbin Qiu Harbin Institute of Technology, China  
Dr. Kosai Raoof Joseph Fourier University, France  
Prof. Gerhard Ritter University of Florida, USA  
Dr. Ashok N. Rudrapatna Bell Labs, Alcatel-Lucent, USA  
Prof. Sartaj K. Sahni University of Florida, USA  
Prof. Abdul Sattar Griffith University, Australia  
Prof. Innokentiy V. Semushin Ulyanovsk State University, Russia  
Prof. Alexander Shananin Moscow Institute of Physics and Technology, Russia  
Prof. Yuri I. Shokin Russian Academy of Sciences, Russia  
Prof. Sergei Silvestrov Mälardalen University, Sweden  
Dr. Maolin Tang Queensland University of Technology, Australia  
Prof. Zahir Tari RMIT University, Australia  
Prof. Christoph Thuemmler Edinburgh Napier University, UK  
Dr. Hrishikesh Venkataraman Dublin City University, Ireland  
Prof. Lotfi A. Zadeh University of California, Berkeley, USA

## TABLE OF CONTENTS

Volume 6    Number 6

June 2013

### **Secure Bluetooth for Trusted m-Commerce**

P. Stirparo, J. Löschner.....277

### **Vertical Handover Management for VoIP Session over Broadband Wireless Networks**

M. Niswar, S. Kashihara, S. Yamaguchi.....289

### **A Measurement Study on Resource Popularity and Swarm Evolution of BitTorrent System**

M. J. Su, H. L. Zhang, B. X. Fang, L. Ye.....300

### **Distributed Sensor Logging: As Easy as a Mesh of Yoyos**

C. Wallis, A. Hutton, S. Brown, R. Challans, P. Gardner-Stephen.....309

### **Adaptive Switching between Space-Time and Space-Frequency Block Coded OFDM Systems in Rayleigh Fading Channel**

M. A. Youssefi, N. Bounouader, Z. Guennoun, J. El Abbadi.....316

# **International Journal of Communications, Network and System Sciences (IJCNS)**

## **Journal Information**

### **SUBSCRIPTIONS**

The *International Journal of Communications, Network and System Sciences* (Online at Scientific Research Publishing, www.SciRP.org) is published monthly by Scientific Research Publishing, Inc., USA.

#### **Subscription rates:**

Print: \$79 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: [sub@scirp.org](mailto:sub@scirp.org)

### **SERVICES**

#### **Advertisements**

Advertisement Sales Department, E-mail: [service@scirp.org](mailto:service@scirp.org)

#### **Reprints (minimum quantity 100 copies)**

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: [sub@scirp.org](mailto:sub@scirp.org)

### **COPYRIGHT**

Copyright©2013 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

### **PRODUCTION INFORMATION**

For manuscripts that have been accepted for publication, please contact:

E-mail: [ijcns@scirp.org](mailto:ijcns@scirp.org)



# International Journal of Communications, Network and System Sciences (IJCNS)

ISSN 1913-3715 (Print) ISSN 1913-3723 (Online)  
<http://www.scirp.org/journal/ijcns>

**IJCNS** is an international refereed journal dedicated to the latest advancement of communications and network technologies. The goal of this journal is to keep a record of the state-of-the-art research and promote the research work in these fast moving areas.

## Editor-in-Chief

**Prof. Boris S. Verkhovsky**

New Jersey Institute of Technology, USA

## Subject Coverage

This journal invites original research and review papers that address the following issues in wireless communications and networks. Topics of interest include, but are not limited to:

Ad Hoc and Mesh Networks	Network Protocol, QoS and Congestion Control
Coding, Detection and Modulation	Network Survivability
Cognitive Radio	Next Generation Network Architectures
Communication Networks Architecture Design	Reconfigurable Networks
Communication Reliability and Privacy	Resource Management
Communication Security and Information Assurance	Satellite Communication
Cooperative Communications	Sensor Networks
Embedded Distributed Systems	Simulation and Optimization Tools
Global Networks	UWB Technologies
Heterogeneous Networking	Wave Propagation and Antenna Design
MIMO and OFDM Technologies	Wireless Personal Communications

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of the IJCNS.

## Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

## Website and E-Mail

<http://www.scirp.org/journal/ijcns>

E-Mail: [ijcns@scirp.org](mailto:ijcns@scirp.org)