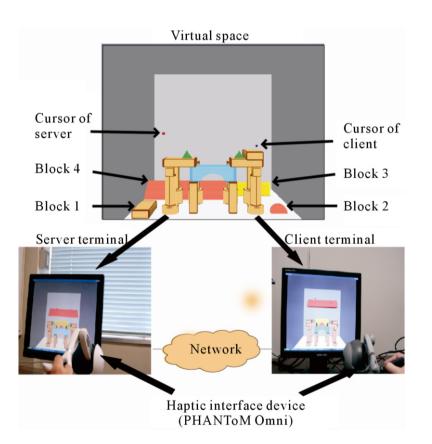


# International Journal of Communications, Network and System Sciences

ISSN: 1913-3715 Volume 5, Number 6, June 2012





www.scirp.org/journal/ijcns/

## JOURNAL EDITORIAL BOARD

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

New Jersey Institute of Technology, USA

#### **Editor-in-Chief**

Prof. Boris S. Verkhovsky

#### **Editorial Board**

Prof. Andranik S. Akopov Prof. Sabri Arik **Prof. Satva Atluri Prof. Alain Bernard** Prof. Ko Chi Chung Prof. Daniel B. da Costa **Dr. Franca Delmastro** Prof. Sasa Divjak Prof. Md. B. El-Mashade Prof. Kurt J. Engemann Prof. Morteza Esmaeili Prof. David J. Farber **Prof. George Ghinea Prof. Richard Tabor Greene** Prof. William Gruver **Prof. Ehud Gudes** Prof. H. Barry Harrison Dr. Zhiyi Huang Prof. Anca D. Ionita Prof. Hiroaki Ishii Dr. Markus Jakobsson **Dr.** Chris Joslin Dr. Dimitri Kanevsky Prof. Jozef Kelemen **Prof. Alexander Korsunsky Prof. Felipe Lara-Rosano** Prof. Shahram Latifi Dr. Nicola Mastronardi Prof. Lyudmila Mihaylova **Prof. Yuriy S. Polyakov** Prof. Jianbin Oiu Dr. Kosai Raoof **Prof. Gerhard Ritter** Dr. Ashok N. Rudrapatna Prof. Sartaj K. Sahni **Prof. Abdul Sattar Prof. Innokentiy V. Semushin Prof. Alexander Shananin** Prof. Yurii I. Shokin **Prof. Sergei Silvestrov Dr. Maolin Tang Prof. Christoph Thuemmler** Dr. Hrishikesh Venkataraman Prof. Lotfi Zadeh

National Research University, Russia Istanbul University, Turkey University of California, Irvine, USA Ecole Centrale de Nantes. France National University of Singapore, Singapore Federal University of Ceara, Brazil National Research Council, Italy Ljubljana University, Slovenia Al-Azhar University, Egypt Iona College, USA Isfahan University of Technology, Iran Carnegie Mellon University, USA Brunel University, UK Keio University, Japan Simon Fraser University, Canada Ben-Gurion University of the Negev, Israel Griffith University, Australia University of Otago, New Zealand University "Politehnica" of Bucharest, Romania Kwansei Gakuin University, Japan PayPal, USA Carleton University, Canada IBM T. J. Watson Research Center, USA Silesian University, Czech Republic Oxford University, UK National Autonomous University of Mexico, Mexico University of Nevada, Las Vegas, USA National Research Council, Italy Lancaster University, UK US Poly Research, USA Harbin Institute of Technology, China Joseph Fourier University, France University of Florida, USA Bell Labs, Alcatel-Lucent, USA University of Florida, USA Griffith University, Australia Ulyanovsk State University, Russia Moscow Institute of Physics and Technology, Russia Russian Academy of Sciences, Russia Mälardalen University, Sweden Queensland University of Technology, Australia Edinburgh Napier University, UK Dublin City University, Ireland University of California, Berkeley, USA



### **TABLE OF CONTENTS**

#### Volume 5 Number 6

#### June 2012

Hybrid Uplink-Time Difference of Arrival and Assisted-GPS Positioning Technique	
M. Abo-Zahhad, S. M. Ahmed, M. Mourad	
Scheduler Algorithm for Multi-Class Switch with Priority Threshold	
A. A. A. Rahman, K. Seman, K. Saadan, A. K. Samingan, A. Azman	
QoE Assessment of Group Synchronization Control Scheme with Prediction in Work Using Haptic Media	
P. G. Huang, Y. Ishibashi, N. Fukushima, S. Sugawara	
TUP: A New eCK-Secure AKE Protocol under the CDH Assumption	
Q. L. Zhou, Z. F. Yang	
Review and Measuring the Efficiency of SQL Injection Method in Preventing E-Mail Hacking	
A. A. M. Sharadqeh, A. M. Alnaser, O. Al Heyasat, A. AK. Abu-Ein, H. Hatamleh	
A Systematic Approach for Hydrological Model Couplings	
D. Salas, X. Liang, Y. Liang	
Detection and Fortification Analysis of WiMAX Network: With Misbehavior Node Attack	
R. K. Jha, I. Z. Bholebawa, U. D. Dalal, A. V. Wankhede	353
Dynamic Clustering with Relay Nodes (DCRN): A Clustering Technique to Maximize Stability in Wireless Sensor Networks with Relay Nodes	
A. B. M. A. Al Islam, M. S. Hossain, V. Raghunathan	

The figure on the front cover is from the article published in Int. J. Communications, Network and System Sciences, 2012, Vol. 5, No. 6, pp. 321-331 by Pingguo Huang, *et al.* 

### 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

#### SERVICES

Advertisements Advertisement Sales Department, E-mail: service@scirp.org

#### Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA. E-mail: sub@scirp.org

#### COPYRIGHT

Copyright©2012 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.

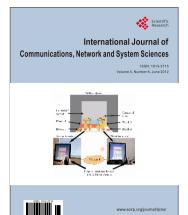
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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 assumes 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

### **Call for Papers**



# 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