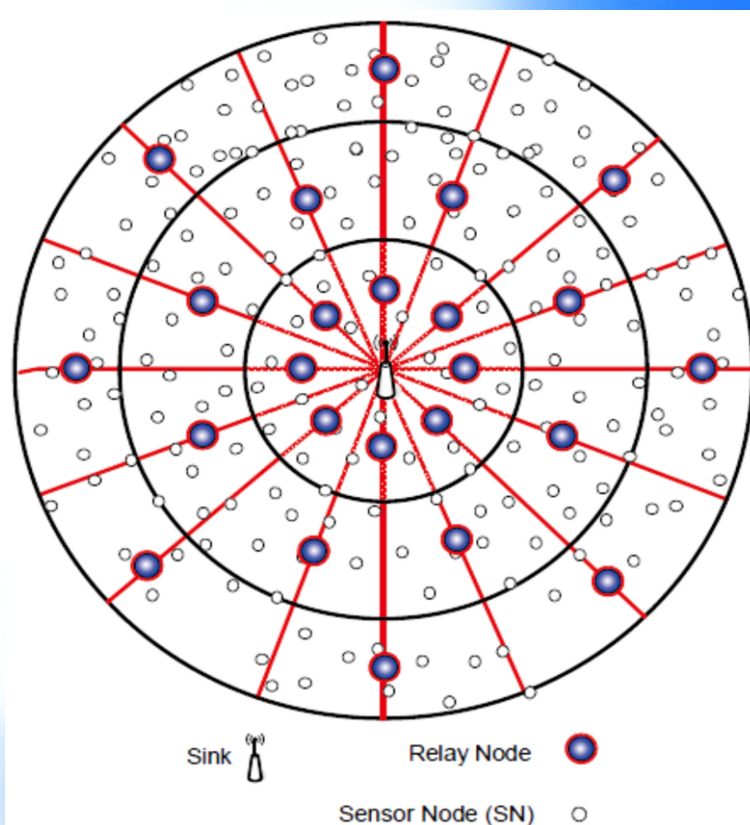


Wireless Sensor Network

Chief Editors: Dr. Min Song Kosai Raouf



ISSN: 1945-3078



Journal Editorial Board

ISSN 1945-3078 (Print) ISSN 1945-3086 (Online)

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

Editors-in-Chief

Dr. Min Song Old Dominion University, USA
Dr. Kosai Raouf Joseph Fourier University, France

Managing Executive Editor

Dr. Yang Po University of Salford, UK

Editorial Board (According to Alphabet)

Dr. Yuanzhu Chen Memorial University of Newfoundland, Canada
Prof. Zhong-Yang Cheng Auburn University, USA
Prof. Jong-Wha Chong Hanyang University, Korea (South)
Dr. Peter Han Joo Chong Nanyang Technological University, Singapore
Prof. Laurie Cuthbert University of London, UK
Dr. Aruneema Das Salford University, UK
Dr. Arjan Durresi Indiana University Purdue University Indianapolis, USA
Dr. Jeffrey J. Evans Purdue University, USA
Prof. Paloma R. Horche Universidad Politécnica de Madrid, Spain
Dr. Li Huang Interuniversity Microelectronics Centre, Netherlands
Dr. Badii Jouaber Telecom SudParis, France
Dr. Jingpeng Li The University of Nottingham, UK
Dr. Yuzhe Liu Maxlinear, Inc., USA
Dr. Juan Luo Hunan University, China
Dr. Bala Natarajan Kansas State University, USA
Prof. Shaharuddin Salleh University Technology Malaysia, Malaysia
Prof. Mu-Chun Su National Central University, Chinese Taipei
Dr. Preetha Thulasiraman Naval Postgraduate School, USA
Prof. Gui Yun Tian University of Newcastle, UK
Dr. Liang Wang Pacific Northwest National Laboratory, USA
Dr. Qing Zhu Fujifilm Dimatix, Inc., USA
Dr. Zhenyun Zhuang Internap, Inc., USA

Editorial Assistant

Joyce Yin Scientific Research Publishing, USA Email: wsn@scirp.org

TABLE OF CONTENTS

Volume 4 Number 3

March 2012

Load Density Analysis of Mobile Zigbee Coordinator in Hexagonal Configuration	
S. R. Ramyah.....	59
An Integrative Comparison of Energy Efficient Routing Protocols in Wireless Sensor Network	
A. Norouzi, A. H. Zaim.....	65
Framework for Random Power Allocation of Wireless Sensor Networks in Fading Channels	
M. Elmusrati, N. Tarhuni, R. Jantti.....	76
A Malicious and Malfunctioning Node Detection Scheme for Wireless Sensor Networks	
S. H. Oh, C. O. Hong, Y.-H. Choi.....	84

The figure on the front cover is from the article published in *Wireless Sensor Network*, 2012, Vol. 4, No. 3, pp. 65-75 by Ali Norouzi and Abdul Halim Zaim.

Wireless Sensor Network (WSN)

Journal Information

SUBSCRIPTIONS

The *Wireless Sensor Network* (Online at Scientific Research Publishing, www.SciRP.org) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$59 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.

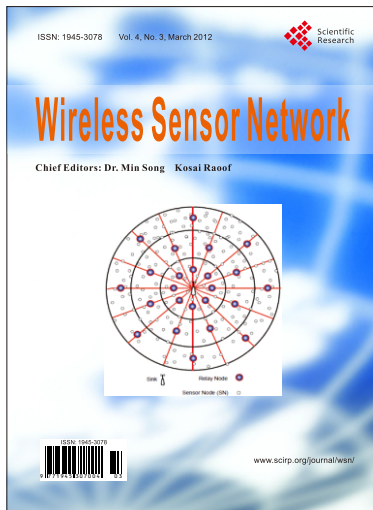
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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 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: wsn@scirp.org



Wireless Sensor Network (WSN)

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

ISSN 1945-3078 (Print) ISSN 1945-3086 (Online)

WSN is an international refereed journal dedicated to the latest advancement of wireless sensor network and applications. The goal of this journal is to keep a record of the state-of-the-art research and promote the research work in these areas.

Editors-in-Chief

Dr. Min Song, Old Dominion University, USA
Dr. Kosai Raouf, Joseph Fourier University, France

Subject Coverage

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

- Data Fusion and Dynamic Inference of Network Information
- Integration of Sensor Networks and Web-Based Services
- Interconnection Architecture Aspects
- Location and Time Services
- Network and Transport Layer Protocols for Cross Networks
- New Applications of Sensor Network: Environmental Monitoring, Healthcare, Home Automation
- QoS Issues in WSN-Based Integrated Networks
- Reliability of Sensor Network and Failure Analysis
- Routing Protocols for Cross Networks
- Sensor Network for Smart Grid
- Sensor Tasking, Control and Actuation
- Sensor Technology
- Testbeds for Integrated Networks

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 WSN.

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. Authors are responsible for having their papers checked for style and grammar prior to submission to WSN. Papers may be rejected if the language is not satisfactory. For more details about the submissions, please access the website.

Website and E-Mail

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

Email: wsn@scirp.org