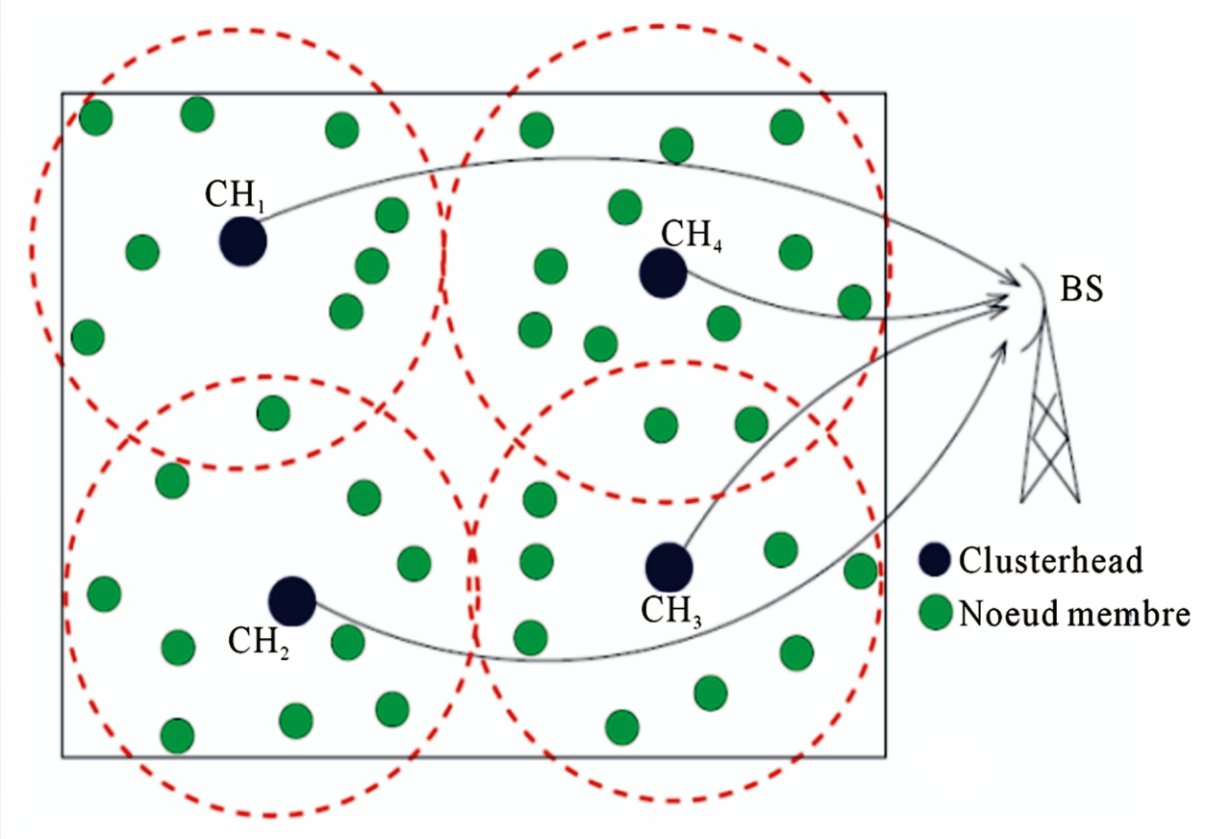
ISSN: 1945-3078 Vol. 5, No. 4, April 2013

Scientific Research

WIRELESS SENSOR NETWORK

Chief Editors: Prof. Kosai Raoof Prof. Min Song



ISSN: 1945-3078
9 771945 307004 03

www.scirp.org/journal/wsn/

Journal Editorial Board

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

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

Editors-in-Chief

Prof. Kosai Raoof	University of Maine, France
Prof. Min Song	The University of Toledo, USA

Editorial Board (According to Alphabet)

Prof. Zhong-Yang Cheng	Auburn University, USA
Prof. Jong-Wha Chong	Hanyang University, South Korea
Prof. Peter Han Joo Chong	Nanyang Technological University, Singapore
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. Ali M. El Kateeb	The University of Michigan-Dearborn, USA
Dr. Jingpeng Li	The University of Nottingham, UK
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

Managing Executive Editor

Dr. Yang Po	University of Salford, UK

Wireless Sensor Network, **2013, 5, 67-89**
Published Online April 2013 in SciRes (http://www.scirp.org/journal/wsn/)

TABLE OF CONTENTS

Volume 5 Number 4 April 2013

MED-BS Clustering Algorithm for the Small-Scale Wireless Sensor Networks
A. B. F. Guiloufi, N. Nasri, M. A. B. Farah, A. Kachouri……67

A Proposal for Mitigating Multiple Black-Hole Attack in Wireless Mesh Networks
O. Shree, F. J. Ogwu……76

Improved Enhanced Chain Based Energy Efficient Wireless Sensor Network
S. Mahajan, J. Malhotra, S. Sharma……84

The figure on the front cover is from the article published in Wireless Sensor Network, 2013, Vol. 5, No. 4, pp. 67-75 by Awatef Ben Fradj Guiloufi, *et al.*

Copyright © 2013 SciRes.

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: $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©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.

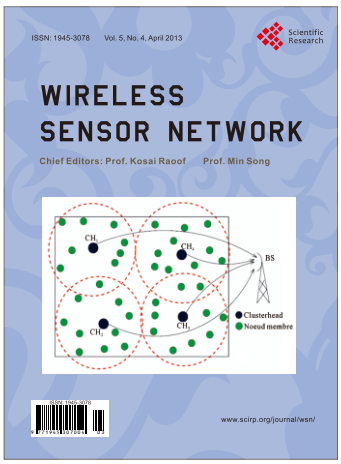
Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

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 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: wsn@scirp.org



Call for Papers

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

Prof. Kosai Raoof University of Maine, France
Prof. Min Song The University of Toledo, USA

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 E-mail: wsn@scirp.org

What is SCIRP?

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science, by delivering superior scientific publications and scientific information solution provider that enable advancement in scientific research.

What is Open Access?

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, world-wide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- •High visibility for maximum global exposure with open access publishing model
- •Rigorous peer review of research papers
- •Prompt faster publication with less cost
- •Guaranteed targeted, multidisciplinary audience

Scientific Research

Website: http://www.scirp.org

Subscription: sub@scirp.org

Advertisement: service@scirp.org