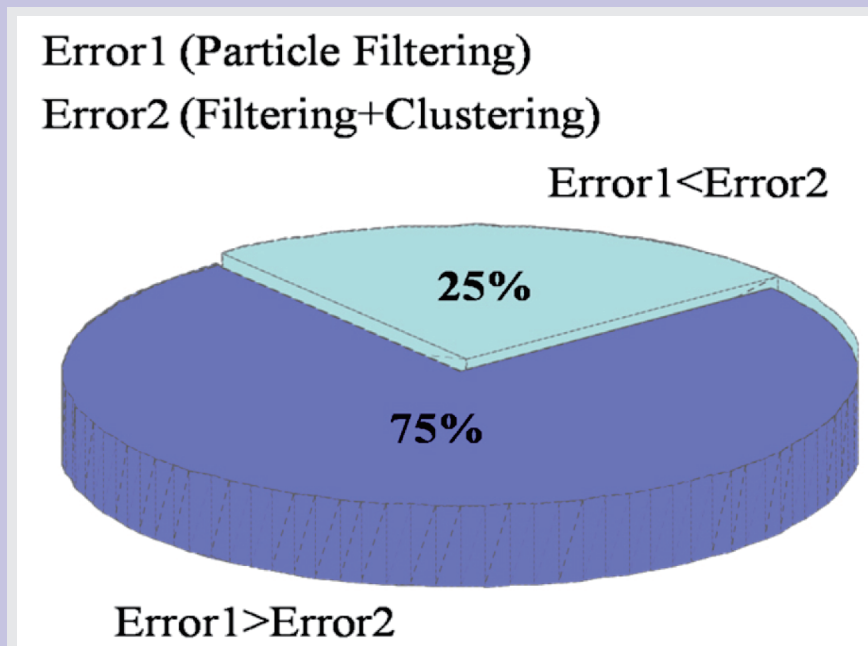


# WIRELESS SENSOR NETWORK

Chief Editors: Dr. Kosai Raouf Prof. Min Song



ISSN: 1945-3078



# Journal Editorial Board

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

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

---

## Editors-in-Chief

**Dr. Kosai Raouf** Joseph Fourier University, 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  
**Prof. Laurie Cuthbert** University of London, UK  
**Dr. Aruneema Das** Salford University, UK  
**Dr. Arjan Durrezi** 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

## TABLE OF CONTENTS

**Volume 4    Number 11**

**November 2012**

**An Average Distance Based Self-Relocation and Self-Healing Algorithm for Mobile Sensor Networks**

Y. P. Qu, S. V. Georgakopoulos.....257

**A Practical Target Tracking Technique in Sensor Network Using Clustering Algorithm**

L. K. Wang, C.-C. Wu.....264

**SCHS: Smart Cluster Head Selection Scheme for Clustering Algorithms in Wireless Sensor Networks**

V. Pal, G. Singh, R. P. Yadav.....273

---

The figure on the front cover is from the article published in *Wireless Sensor Network*, 2012, Vol. 4, No. 11, pp. 264-272 by Luke K. Wang and Chien-Chang Wu.

# **Wireless Sensor Network (WSN)**

## **Journal Information**

### **SUBSCRIPTIONS**

The *Wireless Sensor Network* (Online at Scientific Research Publishing, [www.SciRP.org](http://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](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©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.

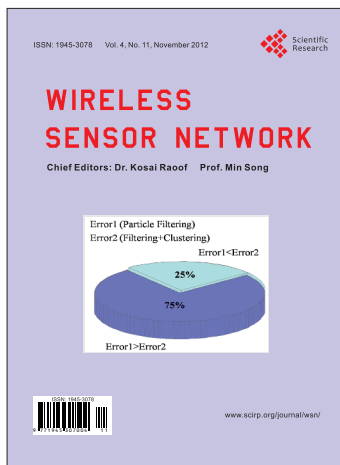
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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](mailto: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. Kosai Raouf**  
**Prof. Min Song**

Joseph Fourier University, France  
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](mailto:wsn@scirp.org)