

ISSN: 1945-3078

Volume 15, Number 1, January 2023



Wireless Sensor Network

ISSN: 1945-3078



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

Journal Editorial Board

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

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

Editor-in-Chief

Prof. Kosai Raoof University of Maine, France

Editorial Board

Dr. Haythem Alhumud	Ministry of Municipality and Rural Affairs, Saudi Arabia
Prof. Mokhtar Beldjehem	University of Ottawa, Canada
Prof. Zhong-Yang Cheng	Auburn University, USA
Prof. Jong-Wha Chong	Hanyang University, South Korea
Prof. Peter Han Joo Chong	Auckland University of Technology, New Zealand
Dr. Ashraf Darwish	Helwan University, Egypt
Dr. Arjan Durrezi	Indiana University-Purdue University Indianapolis, USA
Dr. Ali M. El-Kateeb	The University of Michigan-Dearborn, USA
Dr. Jeffrey J. Evans	Purdue University, USA
Prof. Paloma R. Horche	Polytechnic University of Madrid, Spain
Dr. Li Huang	Interuniversity Microelectronics Centre, Netherlands
Dr. Badii Jouaber	Telecom SudParis, France
Dr. Mikel Larrea	University of the Basque Country UPV/EHU, Spain
Dr. Jingpeng Li	The University of Nottingham, UK
Dr. Juan Luo	Hunan University, China
Dr. Bala Natarajan	Kansas State University, USA
Dr. Yang Po	University of Salford, UK
Prof. Shaharuddin Salleh	University Technology Malaysia, Malaysia
Prof. Mu-Chun Su	National Central University, Chinese Taipei
Prof. Preetha Thulasiraman	Naval Postgraduate School, USA
Prof. Gui Yun Tian	University of Newcastle, UK
Dr. Liang (Frank) Wang	Invensas Corporation, USA

Table of Contents

Volume 15 Number 1

January 2023

A Contention-Based MAC and Routing Protocol for Wireless Sensor Network

C. Y. Haw, A. Awang, F. A. Hussin.....1

Wireless Sensor Network (WSN)

Journal Information

SUBSCRIPTIONS

The *Wireless Sensor Network* (Online at Scientific Research Publishing, <https://www.scirp.org/>) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$89 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 and reuse rights for the front matter of the journal:

Copyright © 2023 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

<http://creativecommons.org/licenses/by/4.0/>

Copyright for individual papers of the journal:

Copyright © 2023 by author(s) and Scientific Research Publishing Inc.

Reuse rights for individual papers:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

Disclaimer of liability

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)

<https://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.

Editor-in-Chief

Prof. Kosai Raoof

University of Maine, 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):

- Antenna Applications
- Compact Antenna Design
- 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
- Package-Antenna for Wireless Sensor Network Nodes
- 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

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

E-mail: wsn@scirp.org