

ISSN: 2152-2294 Vol. 3, No. 4, October 2012



Scientific
Research

Wireless Engineering and Technology

ISSN: 2152-2294



www.scirp.org/journal/wet

Journal Editorial Board

ISSN: 2152-2294 (Print) ISSN: 2152-2308 (Online)

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

Editor-in-Chief

Prof. Yi Huang University of Liverpool, UK

Associate Editor in Chief

Prof. Zhipeng Wu The University of Manchester, UK

Editorial Board (According to Alphabet)

Dr. Atef Abdrabou	United Arab Emirates University, UAE
Dr. Pinhas Ben-Tzvi	George Washington University, USA
Dr. Felix T. S. Chan	The Hong Kong Polytechnic University, China
Prof. Wanyang Dai	Nanjing University, China
Prof. Zhaoyun Duan	University of Electronic Science and Technology of China, China
Prof. Min-Shiang Hwang	National Chung Hsing University, Chinese Taipei
Dr. Jie Liu	Carleton University, Canada
Prof. Margaret L. McLaughlin	University of Southern California, Canada
Prof. Roberto Montemanni	Dalle Molle Institute for Artificial Intelligence, Switzerland
Prof. M. B. Rama Murthy	CMR College of Engineering and Technology, India
Prof. Homayoon Oraizi	Iran University of Science & Technology, Iran
Prof. A. G. Unil Perera	Georgia State University, USA
Dr. Xin Qin	Networks and Distributed Systems at Simula Research Laboratory, Norway
Dr. Kewei Sha	Oklahoma City University, USA
Prof. Yuriy S. Shmaliy	Guanajuato University, Mexico
Dr. Wei Song	University of New Brunswick, Canada
Dr. Paul M. Torrens	Arizona State University, USA
Prof. Yuh-Min Tseng	National Changhua University of Education, Chinese Taipei
Dr. Yuhao Wang	Nanchang University, China
Dr. Changxu (Sean) Wu	University of Michigan, USA
Dr. Fei Zhang	Michigan State University, USA

Guest Reviewers

Hsien-Chin Chiu	Neha Srivastava
Avi Freedmann	Surabhi Surabhi
S. Ramakrishnan	

TABLE OF CONTENTS

Volume 3 Number 4

October 2012

A Brief Review: Stage-Convertible Power Amplifier Using Differential Line Inductor

J. Park, C. Lee, C. Park.....189

Reducing Peak-to-Average Power Ratio of a Turbo Coded OFDM

S. K. Chronopoulos, V. Christofilakis, G. Tatsis, P. Kostarakis.....195

On the Design of Planar Printed Dipole Array Antennas

J.-M. Floc'h, A. El Sayed Ahmad, A. C. Tarot, R. Loison, S. Thizon, J. Y. Daden.....203

Electromagnetic Band Gap Loaded Square Waveguide Band-Pass Filter for Dual-Polarized Application

Y.-M. Tang.....210

Performance of GA and PSO Aided SDMA/OFDM Over-Loaded System in a Near-Realistic Fading Environment

K. V. Shahnaz, C. K. Ali.....214

State Estimation over Customized Wireless Network

S. V. Naghavi, A. Azami, F. Shabaninia.....221

Energy Detector with Baseband Sampling for Cognitive Radio: Real-Time Implementation

M. A. K. Abdulsattar, Z. A. Hussein.....229

Compact Wideband Rectangular Monopole Antenna for Wireless Applications

S. M. Naveen, R. M. Vani, P. V. Hunagund.....240

Wireless Engineering and Technology (WET)

Journal Information

SUBSCRIPTIONS

The *Wireless Engineering and Technology* (Online at Scientific Research Publishing, www.SciRP.org) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$39 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: wet@scirp.org



Wireless Engineering and Technology (WET)

ISSN 2152-2294 (Print) ISSN 2152-2308 (Online)

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

Wireless Engineering and Technology is an international journal dedicated to the latest advancement of wireless engineering and technology. The goal of this journal is to provide a platform for scientists, students, academics and engineers all over the world to promote, share, and discuss various new issues and developments in different areas of wireless engineering and technology.

Editor-in-Chief

Prof. Yi Huang

University of Liverpool, UK

Associate Editor in Chief

Prof. Zhipeng Wu

The University of Manchester, UK

Subject Coverage

This journal invites original research and review papers that address the following issues. Topics of interest include, but are not limited to:

- Antenna Systems and Radio Frequency (RF) Engineering
- Body Area Networks and Its Applications
- Broadband Wireless Access Techniques
- Cognitive Radio and Software Defined Radio
- Microwave and Millimeter Wave Theory and Techniques
- Multi-User and Multiple Access Schemes
- Optical Wireless Communications
- Radio Network Planning and Optimization for UMTS
- Radio Resource Management and Interference Control
- Terahertz and Infrared Technology and Engineering
- Vehicular Communications and Networks
- Wireless Air Interface and Link Control
- Wireless Channel Modeling and Propagation
- Wireless Multimedia Communications and Computing
- Wireless Power Transmission
- Wireless Sensor Networks
- Wireless System Architectures and Applications
- Wireless Traffic and Routing

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 **WET**.

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/wet>

E-mail: wet@scirp.org