

WSEAS

Transactions on Communications

Contents: 2010
Print ISSN: 1109-2777
E-ISSN: 2224-2678

Impact factor according to the citations in Thomson Reuters (ISI Web of Knowledge) for 2014: 0,008

Impact Factor = A/B where: A = the number of citations by Thomson Reuters (ISI Web of Knowledge) in 2014 for the published papers in this journal in 2012 and 2013. B = the total number of papers published by this journal in 2012 and 2013.

Acceptance Rate (for the years 2013 and 2014): 23.26%

Acceptance Rate = C/D where: C = the number of accepted papers, D= the number of submitted papers. Withdrawn Papers are not considered for the numbers C and D.

Editorial Board:

Editor-in-Chief

Professor Pierre Borne
ex IEEE France Section Chair, IEEE Fellow, IEEE/SMC Past President,
Ecole Centrale de Lille,
BP 48, 59651 Villeneuve d'Ascq,
France

Associate Editors:

Prof. Calin Ciufudean
Dept. of Computers, Electronics and Automatics
Stefan cel Mare University
Suceava, Romania
[URL, Email: calin@eed.usv.ro](mailto:calin@eed.usv.ro)

Prof. Mikhael Wasfy, IEEE Fellow,
University of Central Florida
Orlando, Florida, USA
[URL, Email: Wasfy.Mikhael@ucf.edu](mailto:Wasfy.Mikhael@ucf.edu)

Prof. Theodore B. Trafalis
University of Oklahoma
Norman, OK, USA
[URL, Email: ttrafalis@ou.edu](mailto:ttrafalis@ou.edu)

Prof. Ronald R. Yager, IEEE Fellow
Iona College, New Rochelle, NY, USA
[URL, Email: ryager@iona.edu](mailto:ryager@iona.edu)

Prof. Tadeusz Kaczorek, IEEE Fellow
Warsaw University of Technology, Poland
[URL](#), Email: kaczorek@ee.pw.edu.pl

Prof. Bimal Kumar Bose, Life Fellow IEEE
The University of Tennessee, Knoxville, USA
[URL](#), Email: bose@eecs.utk.edu

Prof. D. Subbaram Naidu, IEEE Fellow
University of Minnesota Duluth, USA
[URL](#), Email: dsnaidu@d.umn.edu

Prof. Narsingh Deo, IEEE Fellow, ACM Fellow,
University of Central Florida, USA
[URL](#), Email: deo@cs.ucf.edu

Prof. Metin Demiralp
Istanbul Technical University
Istanbul, Turkey
[URL](#), Email: demiralp@be.itu.edu.tr

Prof. Claudio Guarnaccia, Phd
Industrial Engineering Department
University of Salerno Italy
E-mail: cguarnaccia@unisa.it

Prof. Nikos E. Mastorakis,
Department of Industrial Engineering,
Technical University of Sofia, Kliment Ohridski 8,
1000 Sofia, Bulgaria
[URL](#), Email: mastor@tu-sofia.bg

Topics

Microwave Theory and techniques CAD design for Microwave Systems, Antennas and Radars
Lightwave technology Submillimeter-Wave techniques Microwave High-Power techniques
Microwave and millimeter-Wave Integrated Circuits Microwave and millimeter-Wave
Integrated Solid State Devices Microwave Acoustics Filter and Passive Components
Microwave and Antennas Measurements Microwave Superconductivity RFIC's Wave-guides,
Microwave propagation Ferrites devices. Cavities. Microwave Circuits Periodic Structures
and Filters Tubes, Masers, Amplifiers HF-VHF-UHF Engineering Antennas Reflectors and Lens
Antennas Arrays Scattering Propagation Diffraction Electromagnetic Compatibility Problems
Applied Electromagnetics Electromagnetic Field Numerical Methods for Electromagnetics
Mathematical Methods and Computational techniques for Microwaves Mathematical
Methods and Computational techniques for Antennas and Radars Radio Engineering
applications in Astronomy, Navigation, Aerospace Systems Low noise techniques Optical
Fiber Systems Communication Electronics Signal Processing for Wireless Communication.
Communications Switching and Routing Physical Layer ISDN Computer Networks
Architectural Aspects ATM Networks Protocols Network Architecture Network Reliability
Narrow band and Broad band Networks Modern Routing Problems Privacy and Security
Problems Queuing Theory and Communications Traffic Problems Wireless and Mobile
Computing Communication Systems Integration Cryptology Military Communications
Internet Programming Techniques in Communications Networks Simulation Techniques in
Telecommunications Software for Communications Development and Simulation Social
Implications of Modern Communications Soft Computing and Communications Smart
Interfaces Computer/Communications Integration

Articles:

[Implementation of Beam Formation for WMNs](#)

Authors: M. Uthansakul, S. Pradittara, P. Uthansakul

[Performance Evaluation of Automatic Switched-Beam Antennas for Indoor WLAN Systems](#)

Authors: Monthippa Uthansakul, Peerapong Uthansakul, Paleerat Wongchompa

[Ultra Wideband Wireless Communications in the 60 GHz Band](#)

Authors: Y. Pinhasi, A. Yahalom, G. A. Pinhasi, M. Lutvak

[Transmission through Single and Multiple Layers in the 3-10 GHz Band and the Implications for Communications of Frequency Varying Material Dielectric Constants](#)

Authors: A. Yahalom, Y. Pinhasi, E. Shifman, S. Petnev

[An Uncapacitated Facility Location Based Cluster Hierarchy Scheme on Wireless Sensor Networks](#)

Authors: I-Hui Li, I-En Liao, Feng-Nien Wu

[Capacity of MIMO System in the Presence of Directional Interferences](#)

Authors: Jie Wang, Zhonghao Zhang, Yuehuan Gong

[Null Steering of Dolph-Chebyshev Arrays using Taguchi Method](#)

Authors: Abelmadjid Recioui, Hamid Bentarzi

[Distributed Position Localization and Tracking \(DPLT\) of Malicious Nodes in Cluster Based Mobile Ad Hoc Networks \(MANET\)](#)

Authors: Shakhakarmi Niraj, Dhadesugoor R. Vaman

[Decoding Shortened Reed Solomon Codes at Bit Level](#)

Authors: Ta-Hsiang Hu, Ming-Hua Chang

[Advanced Implementation of IP Telephony at Czech Universities](#)

Authors: Miroslav Voznak

[Ant Colony Inspired Self-Optimized Routing Protocol based on Cross Layer Architecture for Wireless Sensor Networks](#)

Authors: Kashif Saleem, Norsheila Fisal, M. Ariff Baharudin, Adel Ali Ahmed, Sharifah Hafizah, Sharifah Kamilah

[Knowledge Services in Business Process Management: A New Way for Increasing of Productivity?](#)

Authors: Zuzana Tuckova, David Tucek

[Radio Coverage Calculations of Terrestrial Wireless Networks using an Open-Source GRASS System](#)

Authors: Andrej Hrovat, Igor Ozimek, Andrej Vilhar, Tine Celcer, Iztok Saje, Tomaz Javornik

[Services for Advanced Communication Networks](#)

Authors: Vladislav Skorpil, David Novak

[Operating Room Information Systems Adoption by Portuguese Clinical Users](#)

Authors: M. F. Santos, L. Gomes

[System Performance Evaluation of the IEEE 802.16e Pico-Base Station in Multihop-Relay and Mesh Networks](#)

Authors: Kemal Alic, Ales Svigelj, Tomaz Javornik

[Investigating the Impacts of Digital Elements in Web Information for Socio-Informatics](#)

Authors: Siti Z.Z. Abidin, Nasiroh Omar, Hani F. A. Rahman, Marshima M. Rosli

[Perceived Organizational Culture, Professional Commitment, Advice Network and Job Satisfaction of Novice Nurses](#)

Authors: Hsieh-Hua Yang, Fen Fen Huang, Yi-Horng Lai, Chi-Jen Hsieh, Yu-Sheng Liao, Wan-Ching Chao, Shu-Fen Chen

[Identifying the Course Role of In-service Learning via the Social Network Structure](#)

Authors: Lung-Hsing Kuo, Hsieh-Hua Yang, Jui-Chen Yu, Hung-Jen Yang, Lydia Lin

[QoS Parametric Correlation for Network Management, a Link between Application's Requests and Network's Capabilities](#)

Authors: Emanuel Puschita, Tudor Palade, Mihai Sarlea, Ancuta Moldovan, Rebeca Colda, Irina Vermesan

[Algorithms of Digital Modulation Classification and their Verification](#)

Authors: Anna Kubankova, David Kubanek

[Integration of Real Network Components into OPNET Modeler Co-simulation Process](#)

Authors: Milan Bartl, Jiri Hosek, Tomas Matocha, Karol Molnar, Lukas Rucka

[VHDL Modules and Circuits for Underwater Optical Wireless Communication Systems](#)

Authors: Davide Anguita, Davide Brizzolara, Giancarlo Parodi

[Robot Vision and Video Transmission](#)

Authors: A. Ritchie, J. Conradi, A. Prevot, E. A. Yfantis

[Semantic Concordance in the South-East European Languages](#)

Authors: Ancuta Negrea, Agnes Erich, Zlate Stefania

[Linear Model of Adapting Frame Size in DFSA of Passive GEN2 RFID Systems](#)

Authors: Petar Solic, Josko Radic, Nikola Rozic, Mladen Russo

[Accounting Professional Education Schemes: Case of Czech Republic and Estonia](#)

Authors: Jiri Strouhal, Kaidi Kallaste

[Dissolving Active Networks Privacy Threats and Vulnerabilities](#)

Authors: Tai-Hoon Kim

[Selection Based Successive Interference Cancellation for Multicode Multicarrier CDMA Transceiver](#)

Authors: S. Praveen Chakkravarthy, N. Nagarajan, V. Arthi

[Performance Comparison of Wavelet Packet Transform \(WPT\) and FFT-OFDM System Based on QAM Modulation Parameters in Fading Channels](#)

Authors: Haitham J. Taha, M. F. M. Salleh

[Analysis of Routing Metrics for Offering IPTV over WiMAX Using Fuzzy Logic](#)

Authors: Arianit Maraj, Skender Rugova

[A Solution for Secure SIP Conferencing over IMS and SAE](#)

Authors: Cristina-Elena Vintila

[Blind Signal Processing based on Information Theoretic Learning with Kernel-size Modification for Impulsive Noise Channel Equalization](#)

Authors: Namyong Kim

[Quantifying Cryptographic Techniques in Radio Frequency Identification Protocols and Ways of Remedying the Security Threats](#)

Authors: Cristina Hurjui, Stefan Holban, Adrian Graur

[Implementation of Zigbee-based and ISM-based Wireless Sensor and Actuator Network with Throughput, Power and Cost Comparisons](#)

Authors: Rosula S. J. Reyes, Jose Claro Monje, Marc Ericson C. Santos, Lorlynn A. Mateo, Roma Lynne G. Espiritu, John Vianney Isiderio, Carlos Miguel M. Lacson, Ray Edwin T. Ocfemia

[Performance Analysis of 1x2 Optical Power Splitter](#)

Authors: Mohammad Syuhaimi Ab-Rahman, Foze Saleh Ater, Kasmiran Jumari, Rahmah Mohammad

[Curved Strip Dipole Antenna on EBG Reflector Plane for RFID Applications](#)

Authors: N. Fhafhiem, P. Krachodnok, R. Wongsan

[High Level Tele-Operating Speech Communication System for Controlling a Colony of Robots](#)

Authors: Al-Dahoud Ali, Mohamed Fezari, Attoui Hamza

[An Optimum Design of 3x3 Optical Switch based on Integrated MZI, Including the Influence of Electro Optic](#)

Authors: Mohammad Syuhaimi Ab. Rahman, Khaled Mohamed Shaktur, Rahmah Mohammad

[A Mobile Disaster Management System Using the Android Technology](#)

Authors: Jovilyn Therese B. Fajardo, Carlos M. Oppus

[On Performance of TCP and VoIP Traffic in Mobile WiMAX Networks](#)

Authors: Dragorad Milovanovic, Zoran Bojkovic

[Evaluation of Restoration Mechanisms for Future Services using Carrier Ethernet](#)

Authors: H. Wessing, M. Berger, H. M. Gestsson, H. Yu, A. Rasmussen, L. Brewka, S. Ruepp

[Capability-Aware Object Management based on Skip List in Large-Scale Heterogeneous P2P Networks](#)

Authors: Takashi Tomimoto, Takuji Tachibana, Kenji Sugimoto

[Implementation of WIMAX IEEE802.16d Baseband Transceiver on Multi-Core Software-Defined Radio Platform](#)

Authors: Mohammed Aboud Kadhim, Widad Ismail

[A Secure and Efficient Protocol of Multiple Session Keys Generation](#)

Authors: Chang-Kuo Yeh

[Study on Power and Rate Control Algorithm for Cognitive Wireless Networks](#)

Authors: Qian Hu, Zhenzhou Tang

[A Carrier Fragmentation Aware CSMA/ID MAC Protocol for IP over WDM Ring Networks](#)

Authors: Jih-Hsin Ho

[Design of a Free Electron Maser without Wiggler](#)

Authors: Fareq Malek, James Lucas, Yi Huang

[An Effective Cancellation Technique of Cochannel Interference Based on Multiuser Detection Scheme for MFSK/FH-SSMA Systems](#)

Authors: Jyh-Horng Wen, Chuan-Wang Chang, Sheng-Fong Lin

[Investigation of Foliage Effects via Remote Data Logging at 5.8 GHz](#)

Authors: Pon Lai Ly, Phoon Lai Ly, Tharek Abd. Rahman, Mohammed Khomeini Abu

[An Implementation of Designing Media Streaming System for Live Broadcast](#)

Authors: Hsieh-Hua Yang, Jui-Chen Yu, Yeong-Diann Wang, Hung-Jen Yang, Hsueh-Chih Lin, Wei-Yuan Dzan

[Secured Reactive Routing Protocol for Mobile Nodes in Sensor Networks](#)

Authors: P. Samundiswary, P. Dananjayan

[An Advance Wireless Multimedia Communication Application: Mobile Telemedicine](#)

Authors: Chin-Feng Lin

[Cooperative MIMO MAC Protocol using STTC in Wireless Sensor Networks](#)

Authors: J. Vidhya, G. Kalpana, P. Dananjayan

[Routing Protocol Extension for Resilient GMPLS Multi-Domain Networks](#)

Authors: Anna Manolova, Sarah Ruepp, Ricardo Romeral, Sergio Rodriguez

[Efficient Computational Information Geometric Analysis of Physically Allowed Quantum Cloning Attacks for Quantum Key Distribution Protocols](#)

Authors: Laszlo Gyongyosi, Sandor Imre

[Towards 100 Gigabit Carrier Ethernet Transport Networks](#)

Authors: A. Rasmussen, J. Zhang, H. Yu, R. Fu, S. Ruepp, H. Wessing, M. Berger

[Evaluating the Efficiency of Shortcut Span Protection](#)

Authors: Sarah Ruepp, Lars Dittmann, Michael Berger, Thomas Stidsen

[Imaginary Relativity](#)

Authors: Mehran Rezaei

[Fast and Secure Handover Schemes Based on Proposed WiMAX over EPON Network Security Architecture](#)

Authors: Wen Gu, Stamatios V. Kartalopoulos, Pramode K. Verma

[Comparative SAR Assessment in Adults and Children Exposed to Electromagnetic Fields of Radio Frequency Devices](#)

Authors: Mimoza Ibrani, Luan Ahma, Enver Hamiti

[Important Aspects of Using Geographical Information System](#)

Authors: Marius-Constantin Popescu, Nikos Mastorakis

[Developing a Denotation Model from Luminance of Album Cover from 1980 to 1992 in Taiwan](#)

Authors: Manlai You, Li-Min Chen

[E-Management for Administrative Efficiency in Higher Education through Participatory Decision-Making](#)

Authors: Fatimah Hashim, Gazi Mahabubul Alam, Saedah Siraj

[A Design Rule for Inset-fed Rectangular Microstrip Patch Antenna](#)

Authors: M. A. Matin, A. I. Sayeed

[E-learning: Analysis of Online Discussion Forums in Promoting Knowledge Construction through Collaborative Learning](#)

Authors: Nor Fariza Mohd. Nor, Norizan Abdul Razak, Jamaluddin Aziz

[Optimal Placement of Base Stations in a Two Tiered Wireless Sensor Network](#)

Authors: B. Paul, M. A. Matin, M. J. Showkat, Z. Rahman

[A Survey on MPEG-4 Standard and Digital Television Deployment](#)

Authors: Zoran Bojkovic, Bojan Bakmaz

[The Performance Analysis of MRC Combiner Output Signal in the Presence of Weibull Fading and Shadowing](#)

Authors: Petar Nikolic, Dragana Krstic, Zoran Popovic, Dusan Stefanovic, Mihajlo Stefanovic

[Problem of Assignment Cells to Switches in a Cellular Mobile Network via Beam Search Method](#)

Authors: Cassilda Maria Ribeiro, Anibal Tavares Azevedo, Rodolfo Florence Teixeira Jr.

[On the Minimum Number of Users for the Generation of H-ss Traffic in a Simulation Scenario](#)

Authors: Candelaria Sansores Perez, Luis Rizo Dominguez, Julio Cesar Ramirez Pacheco