# WSEAS Transactions on Communications

Contents: 2013 Print ISSN: 1109-2777 E-ISSN: 2224-2678

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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:

Enhancing Future Wireless Systems through Advanced Physical Layer Mechanisms

Authors: K. Thilagam, K. Jayanthi

Design and Analysis of Miniaturized Multiband High Frequency Antenna for K and Ka Band Applications

Authors: P. Jothilakshmi, S. Raju

Performance of LDPC-Coded APSK-Modulation for Wireless USB

Authors: C. T. Manimegalai, R. Kumar

Dynamic Energy Efficient Topology for Wireless Ad Hoc Sensor Networks

Authors: N. Thangadurai, R. Dhanasekaran, R. D. Karthika

Design of Tri-Band Bandpass Filter Based On Quad-Sections SIR Resonator for Wireless Applications

Authors: Emad S. Ahmed

<u>Peak-to-Average Power Ratio Reduction of OFDM signals Using Improved PTS Scheme with Low</u> Computational Complexity

Authors: Alok Joshi, Davinder S. Saini

A Novel Method of Walsh-Hadamard Code Generation Using Reconfigurable Lattice filter and Its application in DS-CDMA System

Authors: G. Suchitra, M. L. Valarmathi

Recovering Weak Signal Using Nakagami Fading Wireless Channel with Multiuser Diversity

Authors: K. Jayanthi, V. P. Arunachalam, C. Vasanthanayaki

Performance Analysis of Spatial Modulation over Weibull Fading Channels

Authors: Ahmad M. Alshamali, Mohammed S. Aloqlah

<u>Trustworthy Position Based Routing to Mitigate against the Malicious Attacks to Signifies Secured Data Packet using Geographic Routing Protocol in MANET</u>

Authors: Sudhakar Sengan, S. Chenthur Pandian

Opt-TDMA/DCR: Optimized TDMA Deterministic Collision Resolution Approach for Hard Real-Time Mobile Ad hoc Networks

Authors: Sofiane Ouni, Jihen Bokri, Farouk Kamoun

RSS based Localization of Sensor Nodes by Learning Movement Model

Authors: R. Arthi, P. Devaraj, K. Murugan

Towards Realistic Performance Evaluation of Delay Tolerant Network

Authors: Neelam Malik, Shailender Gupta, Bharat Bhushan

LTE Optimal Transmission Mode Selection Guidelines over MIMO Channels

Authors: Illa Kolani, Jie Zhang

<u>Channel Estimation in DS-CDMA System based on Quantum Constraints</u>

Authors: S. Karthikeyan, P. Ganesh Kumar, S. Sasikumar

Relay-Assisted Distributed Hybrid MIMO Transceiver with Information Exchange Errors for Cooperative Networks

Authors: Shu-Ming Tseng

Evaluation of the μController Networks Communication for EtherCAT Process Data Interface

Authors: Li Jiang, Mingxin Hou, Fanshao Wei, Minghe Jin, Hong Liu, Zhaopeng Chen

An Efficient Data Redundancy Reduction Technique with Conjugative Sleep Scheduling for Sensed Data Aggregators in Sensor Networks

Authors: K. P. Sampoornam, K. Rameshwaran

Modeling Fluctuations in the Quasi-static Approach Describing the Temporal Evolution of Retry Traffic Authors: Kohei Watabe, Masaki Aida

<u>Performance Study of Diversity Combining Techniques for Error-floor Reduction in Fast Fading Channels</u>
Authors: Yazid Khattabi, Haythem Bany Salameh, Mohammad Al-Ibrahim

<u>Redundancy-Based Semi-Reliable Packet Transmission in Wireless Visual Sensor Networks Exploiting the</u> Sensing Relevancies of Source Nodes

Authors: Daniel G. Costa, Luiz Affonso Guedes, Francisco Vasques, Paulo Portugal

<u>Interference Cancellation in Multi Stage Multi-User Detection in DS-CDMA System using Hybrid Technique</u> Authors: J. Ravindrababu, E. V. Krishna Rao, Y. Raja Rao

Corona Sensor Cell based Deployment for Multiple-Sink Wireless Sensor Networks

Authors: Jyh-Horng Wen, Cheng-Chih Yang, Cheng-Min Lin, Yung-Fa Huang

Effect of Various CODEC Parameters on the Performance of Modified Max-Log-MAP Turbo Decoding Algorithm

Authors: R. Krishnamoorthy, N. S. Pradeep, V. Aarthi

Efficient Hardware Implementation of Advanced Soft Information-Set Decoders in FPGAs

Authors: R. P. Jasinski, W. Godoy Jr., A. Gortan, S. B. L. Franca, V. A. Pedroni

Title Quality of Service Study for Single and Semi layer Interconnection Networks with Relaxing Blocking

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Cooperative Multi-Antenna Relaying in Fixed Hybrid Relay Networks

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MANET Routing Protocols for Real-Time Multimedia Applications

Authors: Ghulam Yasin, Syed Fakhar Abbas, S. R. Chaudhry

An Efficient Data Redundancy Reduction Technique with Conjugative Sleep Scheduling for Sensed Data Aggregators in Sensor Networks

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Performance Evaluation of Voice-Data Integrated Traffic in IEEE 802.11 and IEEE 802.16e WLAN

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Efficient Hardware Implementation of Advanced Soft Information-Set Decoders in FPGAs

Authors: R. P. Jasinski, W. Godoy Jr., A. Gortan, S. B. L. Franca, V. A. Pedroni

<u>Technologies used in Physical MAC-CPS and MAC-Security Layers of IEEE 802.16j Mobile Multi-Hop Relay</u> (MMR) Networks

Authors: D. Satish Kumar, N. Nagarajan

<u>Dynamic Position Location and Tracking (D-PL&T) using Location based Hash Scheme for Malicious Detection under Doppler Spread Rayleigh Channel</u>

Authors: Niraj Shakhakarmi, D. R. Vaman

<u>Accurate Closed-Form Approximations for the BER of Multi-Branch Amplify-and-Forward Cooperative Systems with MRC in Rayleigh Fading Channels</u>

Authors: Amer M. Magableh, Mustafa M. Matalgah

Reliability Level List Based Direct Target Codeword Identification Algorithm for Binary BCH Codes

Authors: B. Yamuna, T. R. Padmanabhan

A Real-Time PC-Based Software Radio DVB-T Receiver

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A Predictive Handover Initiation Mechanism in Next Generation Wireless Networks

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Comparative Analysis of DDR and DAR IMPATT Diodes for Wide Frequency Band

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Adaptive Modulation and Coding for Lifetime Enhancement of WSN using Game Theoretic Approach

Authors: R. Valli, P. Dananjayan

MC/DS-CDMA versus SC/DS-CDMA in Mobile Radio: Spectral Efficiency Approach

Authors: P. Varzakas

Mobility Scenario-Based Performance Evaluation of Preemptive DSR Protocol for MANET

Authors: V. Ramesh, P. Subbaiah

<u>Performance Analysis of Channel Coding in Satellite Communication Based on VSAT Network and MC-CDMA</u> Scheme

Authors: Mohammed El Jourmi, Hassan El Ghazi, Abdellatif Bennis, Hassan Ouahmane

Performance of Concatenated Optimized Irregular LDPC Code with Alamouti Coded MIMO-OFDM Systems

Authors: Bhasker Gupta, Davinder S. Saini

<u>Design of Flexible Layer-3 Routing Protocol with Variable-Length Address Information and Its</u> Implementation

Authors: Yasuhiro Sato, Yusuke Toji, Shingo Ata, Ikuo Oka

Error Correction and Equilibrium investigation in Random Access MAC Protocols for Wireless Networks

Authors: Mohamed Lamine Boucenna, Hadj Batatia, Malek Benslama

A New Finite Word-length Optimization Method Design for LDPC Decoder

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The Equivalent Queuing Model by a Partition Algorithm for Tree Connected Servers

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A Systematic Design of High-Rate Full-Diversity Space-Frequency Codes for Multiuser MIMO-OFDM System

Authors: R. Shelim, M. A. Matin, A. U. Alam

Reconfigurable Characteristics of the Monopole Plasma Antenna and Its Array Driven by Surface Wave

Authors: Anshi Zhu, Zili Chen, Junwei Lv

<u>Performance Analysis, Improvement and Complexity Reduction in Multi Stage Multi-User Detector with</u>
Parallel Interference Cancellation for DS-CDMA System Using Odd Kasami Sequence

Authors: J. Ravindrababu, E. V. Krishna Rao

A Modified PTS Combined with Interleaving and Pulse Shaping Method Based on PAPR Reduction for STBC MIMO-OFDM System

Authors: P. Mukunthan, P. Dananjayan

Implementation of Generalized Detector in MIMO Radar Systems

Authors: Vyacheslav Tuzlukov

### An Agent-Assisted Fuzzy Cost Based Multicast QoS Routing in MANETs

Authors: G. Santhi, Alamelu Nachiappan

<u>Multi-Objective Cross-Layer Optimization with Pareto Method for Relay Selection in Multihop Wireless Ad</u> <u>hoc Networks</u>

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Mobile Communication Safety on Road Transport

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Three-Dimensional Model of Cylindrical Monopole Plasma Antenna Driven by Surface Wave

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Performance Comparison of Spreading Codes in Linear Multi-User Detectors for DS-CDMA System

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Performance of Selected Diversity Techniques over the α-μ Fading Channels

Authors: Taimour Aldalgamouni, Amer M. Magableh, Ahmad Al-Hubaishi

OVSF based Fair and Multiplexed Priority Calls Assignment CDMA Networks

Authors: Vipin Balyan, Davinder S. Saini, Gunjan Gupta

<u>Performance Analysis and PAPR Reduction of Coded OFDM (with RS-CC and Turbo coding) System using Modified SLM, PTS and DHT Pre-coding in Fading Environments</u>

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Algorithmic Vertical Handoff Decision and Merit Network Selection Across Heterogeneous Wireless Networks

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