

## Table of Contents

MAC Protocol for Ad Hoc Network Using Smart Antenna with Pulse/Tone Exchange <i>Jing Ma, Hiroo Sekiya, Nobuyoshi Komuro, and Shiro Sakata</i>	1
Achieving connectivity in an Unstructured Wireless Sensor Network using Optimal Assignment of Mobile Nodes <i>Paritosh Ramanan, Prathamesh Gaikwad, and Sreejith Vidyadharan</i>	7
A Spectrum Sharing Method Considering Users' Behavior for Uncooperative WiFi/WiMAX Providers <i>Hiroaki Takemoto, Keita Kawano, Kazuhiko Kinoshita, and Koso Murakami</i>	15
Optimization of Wireless Sensor Network Using Network Coding Algorithm <i>Jessica Bartholdy Sanson, Natanael Rodrigues Gomes, Renato Machado, Andrei Legg, and Osmar Santos</i>	21
Blind Estimation of Frame Synchronization Patterns in Telemetry Signal <i>Byunghoon Oh, Jinwoo Jeong, Yeonsoo Jang, and Dongweon Yoon</i>	25
Performance Analysis of Channel Switching with Various Bandwidths in Cognitive Radio <i>Po-Hao Chang, Keng-Fu Chang, Yu-Chen Chen, and Li-Kai Ye</i>	29
A Fuzzy Inference System for Increasing of Survivability and Efficiency in Wireless Sensor Networks <i>Jose Sobral, Aldir Sousa, Harilton Araujo, Rodrigo Baluz, Raimir Filho, Marcus Lemos, and Ricardo Rabelo</i>	34
Peak-to-Average Power Ratio Reduction Scheme in Impulse Postfix OFDM System <i>Byung Moo Lee and Youngok Kim</i>	42
An Approach for Reduction of the Security Overhead in Smart Grid Communication Infrastructure Employing Dedicated Encryption <i>Miodrag Mihaljevic and Aleksandar Kavcic</i>	46
Yet Another Bounded Broadcasting for Random Key Predistribution Schemes in Wireless Sensor Networks <i>Aishwarya Mishra, Tibor Gyires, and Yongning Tang</i>	53
Adoptation of Weil Pairing IBE for Secure File Sharing <i>Cheong Choi</i>	59
Data Security Model for Cloud Computing <i>Eman M.Mohamed, Hatem S.Abdelkader, and Sherif El-Etriby</i>	66
Energy Efficiency and Cost Optimization of OTDR Supervision Systems for Monitoring Optical Fiber Infrastructures <i>Julio Montalvo, Jose Alfonso Torrijos, Rafael Canto, and Ignacio Berberana</i>	75

Provisioning and Resource Allocation for Green Clouds <i>Guilherme Geronimo, Jorge Werner, Carlos Westphall, Carla Westphall, and Leonardo Defenti</i>	81
A Validation Model of Data Input for Web Services <i>Rafael Bosse Brinhosa, Carla Merkle Westphall, Carlos Becker Westphall, Daniel Ricardo dos Santos, and Fabio Grezele</i>	87
A Method for Overlay Network Latency Estimation from Previous Observation <i>Weihua Sun, Naoki Shibata, Keiichi Yasumoto, and Masaaki Mori</i>	95
An Intelligent Approach to an Efficient Internet Network Management <i>Antonio Martin, Carlos Leon, and Alejandro Lopez</i>	101
Mass Configuration of Network Devices in Industrial Environments <i>Gyorgy Kalman</i>	107
Adaptive Traffic Dependent Fuzzy-based Vertical Handover for Wireless Mobile Networks <i>Thanachai Thumthawatworn, Anjum Pervez, and Pratit Santiprabhob</i>	112
Consensus Problem in Stochastic Network Systems with Switched Topology, Noise and Delay <i>Natalia Amelina and Alexander Fradkov</i>	118
Optimization of Achievable Information Rates and Number of Levels in Multilevel Flash Memories <i>Xiujie Huang, Aleksandar Kavcic, Xiao Ma, Guiqiang Dong, and Tong Zhang</i>	125
Implementation Challenges in Rich Communication Suite-enhanced (RCS-e) <i>Nishank Trivedi and Anurag Jain</i>	132
Fuzzy Redirection Algorithm for Content Delivery Network (CDN) <i>Thiago Oliveira and Marcial Fernandez</i>	137
Tree Construction Strategies for Survivable Overlay Multicasting in Dual Homing Networks <i>Wojciech Kmieciak and Krzysztof Walkowiak</i>	144
Evaluating OpenFlow Controller Paradigms <i>Marcial Fernandez</i>	151
Performance of an IPv6 Web Server under Congestion <i>Alae Loukili, Anthony Tsetse, Alexander Wijesinha, Ramesh Karne, and Patrick Appiah-Kubi</i>	158
Optimal FIR Filters for DTMF Applications <i>Pavel Zahradnik, Boris Simak, and Miroslav Vlcek</i>	163

Task Allocation Algorithms for 2D Torus Architecture <i>Lukasz Jakimczuk, Wojciech Kmiecik, Iwona Pozniak-Koszalka, and Andrzej Kasprzak</i>	169
A Real Time Synchronous V - C System with the Extracted Data from Buffering Function <i>Hyung-Se Kim, Chan-Seok Jeong, Moon-Hwan Lee, Baek-Yeol Seong, Sung-Woo Choi, Miseon Choi, and Young-Kuk Kim</i>	175
Avoiding Border Effect in Mobile Network Simulation <i>Raid Alghamdi, John DeDourek, and Przemyslaw Pochec</i>	184
A Numerical Approach for Performance Evaluation of Cellular Mobile Networks with Channels Breakdowns <i>Nawel Gharbi</i>	190
MTRP: Multi-Topology Recovery Protocol <i>Paulo Pinheiro and Marcial Fernandez</i>	197
Bandwidth on Demand over Carrier Grade Ethernet Equipment <i>Christos Bouras, Theoni-Katerina Spuropoulou, and Kostas Stamos</i>	204
A Reliability and Survivability Analysis of Local Telecommunication Switches Suffering Frequent Outages <i>Andrew Snow, Julio Arauz, Gary Weckman, and Aimee Shyirambere</i>	209