

Table of Contents

Trust Model-based Secure Cooperative Sensing Techniques for Cognitive Radio Networks <i>Deming Pang, Gang Hu, and Ming Xu</i>	1
Customer Security Concerns in Cloud Computing <i>Shirlei Chaves, Carlos Westphall, Carla Westphall, and Guilherme Geronimo</i>	7
Access Control in a Form of Active Queuing Management in Congested Network Environment <i>Vladimir Zaborovsky and Vladimir Mulukha</i>	12
IPv6: Now You See Me, Now You Don't <i>Matthew Dunlop, Stephen Groat, Randy Marchany, and Joseph Tront</i>	18
A Review Study on Image Digital Watermarking <i>Charles Fung, Antonio Gortan, and Walter Godoy Junior</i>	24
Security Analysis of LTE Access Network <i>Cristina-Elena Vintila, Victor-Valeriu Patriciu, and Ion Bica</i>	29
Anonymous Key Issuing Protocol for Distributed Sakai-Kasahara Identity-based Scheme <i>Amar Siad and Moncef Amara</i>	35
Efficiency Optimisation Of Tor Using Diffie-Hellman Chain <i>Kun Peng</i>	41
Interaction between an Online Charging System and a Policy Server <i>Marc Cheboldaeff</i>	47
StepRoute - A MultiRoute Variant Based on Congestion Intervals <i>Ali Al-Shabibi and Brian Martin</i>	52
A Naming Scheme for Identifiers in a Locator/Identifier-Split Internet Architecture <i>Christoph Spleiss and Gerald Kunzmann</i>	57
Address-Translation-Based Network Virtualization <i>Yasusi Kanada</i>	63
Next Generation Access Networks (NGANs) and the geographical segmentation of markets <i>Joao Paulo Pereira and Pedro Ferreira</i>	69
Does Cloud Computing Matter? Networking IT and Services Value in Organizations	75

<i>Cheng-Chieh Huang and Ching-Cha Hsieh</i>	
Motivations and Challenges of Global Mobility with Universal Identity: A Review <i>Walaa Elsadek and Mikhail Mikhail</i>	81
A new Hybrid SPD-based Scheduling for EPONs <i>Qianjun Shuai, Jianzeng Li, Jinyao Yan, and Weijia Zhu</i>	87
Link Emulation on the Data Link Layer in a Linux-based Future Internet Testbed Environment <i>Martin Becke, Thomas Dreiholz, Erwin P. Rathgeb, and Johannes Formann</i>	92
User utility function as Quality of Experience (QoE) <i>Manzoor Ahmed Khan and Umar Toseef</i>	99
Tuning Self-Similar Traffic to Improve Loss Performance in Small Buffer Routers <i>Yongfei Zang and Jinyao Yan</i>	105
Performance evaluation of Burst deflection in OBS networks using Multi-Topology routing <i>Stein Gjessing</i>	109
Modeling and Evaluation of SWAP Scheduling Policy Under Varying Job Size Distributions <i>Idris A. Rai and Michael Okopa</i>	115
Optical Protection with Pre-configured Backup Paths and Limited Backup Resource Sharing <i>Krishanthmohan Ratnam, Mohan Gurusamy, and Kee Chaing Chua</i>	121
DNS Security Control Measures: A heuristic-based Approach to Identify Real-time incidents <i>Joao Afonso and Pedro Veiga</i>	127
Design Experience with Routing SW and Related Applications <i>Miroslav Sveda</i>	133
Adaptive Load Balanced Routing for 2-Dilated Flattened Butterfly Switching Network <i>Ajithkumar Thamarakuzhi and John A Chandy</i>	139
A Review of IPv6 Multihoming Solutions <i>Habib Naderi and Brian Carpenter</i>	145
An Analytic and Experimental Study on the Impact of Jitter Playout Buffer on the E-model in VoIP Quality Measurement <i>Olusegun Obafemi, Tibor Gyires, and Yongning Tang</i>	151
SIP Providers' Awareness of Media Connectivity	157

<i>Stefan Gasterstadt, Markus Gusowski, and Bettina Schnor</i>	
Improving SIP authentication <i>Lars Strand and Wolfgang Leister</i>	164
Performance Evaluation of Inter-Vehicle Communications Based on the Proposed IEEE 802.11p Physical and MAC Layers Specifications <i>Diogo Acatauassu, Igor Couto, Patrick Alves, and Kelvin Dias</i>	170
Cooperative Vehicle Information Delivery Scheme for ITS Networks with OFDM Modulation Techniques <i>Katsuhiro Naito, Kazuo Mori, and Hideo Kobayashi</i>	175
An Adaptive Mechanism for Access Control in VANETs <i>Alisson Souza, Ana Luiza Barros, Antonio Sergio Vieira, Filipe Roberto, and Joaquim Celestino Junior</i>	183
Methodology of Dynamic Architectural Adaptation for Ad hoc Networks Operating in Disturbed Environment <i>Farouk Aissanou and Ilham Benyahia</i>	189
A Regional City Council mGovernment Case Study: Success Factors for Acceptance and Trust <i>Shadi Al-Khamayseh and Elaine Lawrence</i>	196
Evaluation of Buffer Size for Middleware using Multiple Interface in Wireless Communication <i>Etsuko Miyazaki Miyazaki and Masato Oguchi</i>	202
Mobile Ad-hoc Networks: an Experimentation System and Evaluation of Routing Algorithms <i>Maciej Foszczynski, Iwona Pozniak-Koszalka, and Andrzej Kasprzak</i>	206
Home Automation with IQRF Wireless Communication Platform: A Case Study <i>Radek Kuchta, Vladimir Sulc, and Jaroslav Kadlec</i>	212
Secure Packet Transfer in Wireless Sensor Networks – A Trust-based Approach <i>Yenumula Reddy and Rastko Selmic</i>	218
Opportunistic Sensing in Wireless Sensor Networks <i>Hans Scholten and Pascal Bakker</i>	224
Adaptive Techniques for Elimination of Redundant Handovers in Femtocells <i>Zdenek Becvar and Pavel Mach</i>	230
Reconfigurable Tactical Impulse Radio UWB for Communication and Indoor Localization <i>Thomas Beluch, Aubin Lecointre, Daniela Dragomirescu, and Robert Plana</i>	235
CQI Reporting Imperfections and their Consequences in LTE Networks	241

<i>Kari Aho, Olli Alanen, and Jorma Kaikkonen</i>	
HyRA: A Software-defined Radio Architecture for Wireless Embedded Systems <i>Tiago Rogerio Muck and Antonio Augusto Frohlich</i>	246
Sensors Deployment Strategies for Rescue Applications in Wireless Sensor Networks <i>Ines El Korbi, Leila Azouz Saidane, and Nesrine Ben Meriem</i>	252
UHF-RFID-Based Localization Using Spread-Spectrum Signals <i>Andreas Loeffler</i>	261
An Error Reduction Algorithm for Position Estimation Systems Using Transmitted Directivity Information <i>Hiroyuki Hatano, Tomoharu Mizutani, and Yoshihiko Kuwahara</i>	267
A Dynamic Bandwidth Allocation Scheme for Interactive Multimedia Applications over Cellular Networks <i>Kirti Keshav and Pallapa Venkataram</i>	273
Distributed TDMA MAC Protocol with Source-Driven Combined Resource Allocation in Ad Hoc Networks <i>Myunghwan Seo, Hyungweon Cho, Jongho Park, Jihyoung Ahn, Bumkwi Choi, and Tae-Jin Lee</i>	279
Loss Differentiation and Recovery in TCP over Wireless Wide-Area Networks <i>Detlef Bosau, Herwig Unger, Lada-On Lertsuwanakul, and Dominik Kaspar</i>	285
By Use of Frequency Diversity and High Priority in Wireless Packet Retransmissions <i>Xiaoyan Liu and Huiling Zhu</i>	291
Kernel Monitor of Transport Layer Developed for Android Working on Mobile Phone Terminals <i>Kaori Miki, Masato Oguchi, and Saneyasu Yamaguchi</i>	297
Path Selection in WiMAX Networks with Mobile Relay Stations <i>Pavel Mach and Zdenek Becvar</i>	303
Planning with Joint Clustering in Multi-hop Wireless Mesh and Sensor Networks <i>Yasir Drabu and Hassan Peyravi</i>	309
Anomaly Detection Framework for Tracing Problems in Radio Networks <i>Jussi Turkka, Tapani Ristaniemi, Gil David, and Amir Averbuch</i>	317
A New Path Failure Detection Method for Multi-homed Transport Layer Protocol <i>Sinda Boussen, Nabil Tabbane, Francine Krief, and Sami Tabbane</i>	322
A Mechanism for Semantic Web Services Discovery in Mobile Environments <i>Rafael Besen and Frank Siqueira</i>	329

Towards Efficient Energy Management: Defining HEMS, AMI and Smart Grid Objectives <i>Ana Rossello´-Busquet, Georgios Kardaras, Jose Soler, and Lars Dittmann</i>	335
Experimental Assessment of Routing for Grid and Cloud <i>Douglas Balen, Carlos Westphall, and Carla Westphall</i>	341
Scalability of Distributed Dynamic Load Balancing Mechanisms <i>Alcides Calsavara and Luiz Augusto Paula Lima Jr.</i>	347
Moving to the Cloud: New Vision towards Collaborative Delivery for Open-IPTV <i>Emad Abd-Elrahman and Hossam Afifi</i>	353
Half-Band FIR Filters for Signal Compression <i>Pavel Zahradnik, Boris Simak, and Miroslav Vlcek</i>	359
Comb Filters for Communication Technology <i>Pavel Zahradnik, Boris Simak, and Miroslav Vlcek</i>	363
Outage Performance Analysis of Alamouti STBC in Backward Link for Wireless Cooperative Networks <i>Wooju Lee, Dongweon Yoon, Zhengyuan Xu, Seounghun Jee, and Jaeyoon Lee</i>	368
Exact Error Probabilities Analysis of Arbitrary 2-D Modulation-OFDM Systems with I/Q Imbalances in Frequency-Flat Rayleigh Fading Channel <i>Jaeyoon Lee, Dongweon Yoon, Kyongkuk Cho, and Wooju Lee</i>	371
Performance Issues in the Design of a VPN Resistant to Traffic Analysis <i>Claudio Ferretti, Alberto Loporati, and Riccardo Melen</i>	376
Layer Optimization for DHT-based Peer-to-Peer Network <i>Jun Li, Cuilian Li, Zhaoxi Fang, and Haoyun Wang</i>	382
Performance Evaluation of Split Connection Methods for Session-based Group-oriented Communications <i>Hiroshi Emina, Hiroyuki Koga, Masayoshi Shimamura, and Takeshi Ikenaga</i>	388
Efficient Location-aware Replication Scheme for Reliable Group Communication Applications <i>Yuehua Wang, Zhong Zhou, Ling Liu, and Wei Wu</i>	394
I2P Data Communication System <i>Bassam Zantout and Ramzi Haraty</i>	401
Experimental IPTV and IPv6 Extended Provisioning in a Virtual Testbed <i>Shuai Qu, Jonas Lindqvist, and Cluas Popp Larsen</i>	410

Analysis of the Implementation of Utility Functions to Define an Optimal Partition of a Multicast Group <i>Joel Penhoat, Karine Guillouard, Tayeb Lemlouma, and Mikael Salaun</i>	418
A Survey on Robust Wireless JPEG 2000 Images and Video Transmission Systems <i>Max Agueh and Henoc Soude</i>	424
Analysis of Reliable and Scalable Video-On-Demand Networks <i>Nader Mir</i>	430
Usability Evaluation and Study of a Video-Conferencing Service Provided via the Virtual Conference Centre <i>Borka Jerman-Blazic and Tanja Arh</i>	436
Multi-Episodic Dependability Assessments for Large-Scale Networks <i>Andrew Snow, Gary Weckman, and Andrew Yachuan-Chen</i>	441
Soft Errors Mask Analysis on Program Level <i>Lei Xiong, Qingping Tan, and Jianjun Xu</i>	449