

SoftCOM 2006

INTERNATIONAL CONFERENCE ON SOFTWARE, TELECOMMUNICATIONS AND COMPUTER NETWORKS

Split – Dubrovnik, Croatia

September 29 – October 1, 2006



IEEE
COMMUNICATIONS
SOCIETY



IEEE

Table of Contents

E-Learning Platform Characterization from User Traffic.....	1
<i>Burdescu Dumitru Dan, Mihaescu Marian Cristian</i>	
Composite Noise Temperature at Low Earth Orbiting Satellite Ground Station.....	6
<i>Shkelzen Cakaj, Kresimir Malaric</i>	
Efficiency of Decentralized Self-Managing System for IEEE 802.11 WLANs.....	10
<i>Hrvoje Tkalcić</i>	
Sixrm: Full Mesh Reliable Source Ordered Multicast	15
<i>Pedro Ferreira, João Orvalho, Fernando Boavida</i>	
Modeling the Performance of a Distributed Application Based on Web Services.....	20
<i>Ezudin Kurtovic, Vlado Glavinic</i>	
Palm's Machine-Repair Model with a Generalised Poisson Input Stream and Constant Service Time.....	25
<i>Seferin Todorov Mirtchev</i>	
Design of irregular LDPC Codes for flexible Encoder and Decoder Hardware Realization.....	30
<i>Frank Kienle, Torben Brack, Norbert Wehn</i>	
Multi-monopole model of man for SAR evaluations	35
<i>M. Bozzetti, G. Calò, F. Lattarulo, V. Petruzzelli</i>	
Variable Rate LDPC Codes for Wireless Applications	40
<i>Marco Baldi, Giovanni Cancellieri, Franco Chiaraluce</i>	
Internet Shopping System using Cryptographic ID Technology and ID Compression Methods.....	45
<i>Kouichi Kikuchi, Kazumasa Takami, Shinichiro Goto, Osamu Mizuno</i>	
Analytical model of human body when exposed to high frequency electromagnetic fields.....	50
<i>Ana Komadina, Dragan Poljak</i>	
Experience-driven selective scan for 802.11 networks.....	55
<i>Franco Tommasi, Simone Molendini, Andrea Tricco</i>	
The Campus Satellitare del Salento: a scalable and transparent e-learning application	60
<i>Franco Tommasi, Antonio Campa, Simone Molendini</i>	
Open Access Networks: Operating Options and Challenges of Business Logic.....	66
<i>Matti Juutilainen, Jouni Ikonen, Liisa-Maija Sainio, Jari Porras</i>	
Simulation of Dynamic Call Admission Control for CDMA Systems.....	71
<i>Mihály Katona, Imre Sándor</i>	
An Integration Architecture to 4TH Generation Wireless Networks	76
<i>Xu Yang, John Bigham</i>	
Scalable and Secure Architecture for Digital Content Distribution.....	81
<i>Valer Bocan, Mihai Fagadar-Cosma</i>	
Frequency Domain MMSE Equalization with Moving FFT for MBOK DS-UWB System	87
<i>Shin-Woo Kang, Se-Bin Im, Hyung-Jin Choi</i>	
Simulated Annealing Algorithms for Optimal Packet Scheduling in Ad Hoc Networks	92
<i>Marcos Aurelio Belchior, Kyra Wulffert, Peter Zipf, Manfred Glesner</i>	
Multicast state scalability in QoS MPLS networks.....	97
<i>Ivo Rozic</i>	
Improving Virtual Team Communication.....	103
<i>Kresimir Pripuzic, Luko Gjenero, Hrvoje Belani</i>	
Towards Dynamic Web Service Generation on Demand.....	108
<i>Ivan Magdalenic, Boris Vrdoljak, Zoran Skocir</i>	
Parallel SIP Proxy Servers Using Direct Routing Approach.....	113
<i>Viktor Matic, Ivan Franicevic, Darko Sekalec</i>	

Table of Contents

MUDCOM: Cost Modeling Framework for Design of Telecommunications Software Systems	118
<i>Moinul H. Khan</i>	
Regional Networks and Operator Neutrality in Finland.....	123
<i>Tuomas Karhula, Jouni Ikonen, Matti Juutilainen</i>	
Video-streaming Transmission with QoS over Cross-Layered Ad hoc Networks	128
<i>Guillermo Díaz Delgado, Victor Carrascal Frías, Mónica Aguilar Igartua</i>	
The Role of Position Reporting Frequency in LBS QoS Establishment	133
<i>Lidija Basic, Renato Filjar</i>	
Comparison of WiMAX coverage at 450MHz and 3.5GHz	138
<i>Tomaž Javornik, Gorazd Kandus, Andrej Hrovat, Igor Ozimek</i>	
GPS Assisted Alternative Path Modeling and Guidance.....	143
<i>Tero Viitala-Kiss, Jouni Ikonen</i>	
Use of distributed resources in mobile environment	148
<i>Tommi Kallonen, Jari Porras</i>	
Cross-layer design of packet scheduling algorithm	153
<i>Dung D. Luong, Nam H. Do</i>	
Secure Mobile IPv6 for B3G Networks.....	158
<i>D. Celentano, A. Fresca, M. Longo, F. Postiglione, A.L. Robustelli</i>	
Efficient reliable on-demand multicast for content delivery.....	163
<i>Ilka Miloucheva, Nilson Reyes, Jens Mahnke, Karl Jonas</i>	
Dynamic TXOP configuration for Qos enhancement in IEEE 802.11e wireless LAN.....	168
<i>Jakub Majkowski, Ferran Casadevall Palacio</i>	
Electromagnetic Field Measurements In Student Microwave Laboratory	173
<i>Kresimir Malaric, Sandra Antesevic Maricic,</i>	
Evaluation of QoS Support for Multimedia Traffics in IEEE 802.11e	177
<i>Alessandro Andreadis, Giuliano Benelli, Riccardo Zambon</i>	
Agent based data collecting in a forest fire monitoring system	182
<i>Ljiljana Bodrožić, Darko Stipanicev, Maja Stula</i>	
An Approach for Interoperable Service Mediation in Diverse Telecommunication Networks.....	187
<i>Andreas Diehl, Kishore Angrishi</i>	
AR Modeling for Temporal Extension of Correlated Sensor Network Data.....	192
<i>H. Najafi, F. Lahouti, M. Shiva</i>	
A Hybrid Algorithm for Topology Optimization in Wireless Sensor Networks	196
<i>Ali Sarrafi, Mohammad Hamed Firooz, Mahmoud Kamarei</i>	
An Improved Technology for Content Matching Intrusion Detection System.....	201
<i>Yang Wang, Hidetsune Kobayashi</i>	
A T-Learning Platform based on Digital Terrestrial Television	205
<i>M. Baldi, A. De Santis, D. Falcone, E. Gambi, S. Spinsante</i>	
Parametric Models for Speech Quality Estimation in GSM Networks.....	210
<i>M. Barile, P. Camarda, R. Dell'Aquila, N. Vitti</i>	
Performance Limitation of an Inter-City Optical Ring Network with Short-Period Dispersion-Managed Fiber due to the Presence of Cross-Phase Modulation	215
<i>S.P. Majumder, Meer Nazmus Sakib, Md. Nazmul Alam, Redwan Noor Sajjad</i>	
Performance of automotive spread spectrum radars	219
<i>G.Righi, S. Spinsante, F. Chiaraluce, E. Gambi</i>	

Table of Contents

Complexity issues in the introduction of High Definition in H.264/AVC based video-conferencing	224
<i>Susanna Spinsante, Ennio Gambi, Franco Chiaraluce, Stefano Morichetti</i>	
Robust and Survivable Network Design for Entirely Uncertain Traffic Demand Patterns.....	229
<i>Matthias Scheffél</i>	
Policy Based Data Access in Wireless Adhoc Networks	234
<i>Qurban A. Memon</i>	
IMUNES Based Distributed Network Emulator.....	239
<i>Z. Puljiz, M. Mikuc</i>	
Visualization of Mobile Ad-Hoc Laboratory Network (S-Net).....	245
<i>Biljana Jagodic</i>	
The Importance of Adaptive Applications in Mobile Wireless Networks	251
<i>Michael Neophytou, Kyriakos Stavrou, Vasos Vassiliou, Andreas Pitsillides</i>	
Italian-Croatian Remote Laboratory Distributed on Geographical Network	257
<i>Mladen Borsic, Drago Cmur, Pasquale Daponte, Claudio De Capua, Domenico Grimaldi, Tomislav Kilic, Tarik Mutapcic, Maria Riccio</i>	
CPM/ PERT Project Planning Methods as E-Learning Optional Support	263
<i>Jadranka Marasovic, Tea Marasovic</i>	
Usability of Mobile Ad hoc Networks for IP Services	268
<i>Ivica Cubic, Ivan Barbaric</i>	
IP telephony network saving capacity due to substitution of PSTN by IP network	273
<i>Milutin Kapov, Damir Dlaka</i>	
Adaptive Noise Cancellation Based on Neural Network	279
<i>Maja Stella, Dinko Begusic, Mladen Russo</i>	
A Hybrid Fault-Tolerant Algorithm for MPLS Networks.....	283
<i>Maria Hadjiona, Chryssis Georgiou, Vasos Vassiliou</i>	
Assessment of Human Exposure to Power Substation Electric Field.....	284
<i>Dragan Poljak, Niksa Kovac, Cristina Gonzalez, Andres Peratta, Sasa Kraljevic</i>	
Distributed Measurement System Based on Wireless Mobile Device and Application Repository Server	290
<i>A. Aiello, D.L. Carni, D. Grimaldi, G. Guglielmelli, F. Lamonaca</i>	
Geometrical aspects of 3D human body exposed to extremely low frequency high voltage electric fields. A BEM approach.....	295
<i>Andres Peratta, Cristina Gonzalez, Dragan Poljak</i>	
Electromagnetic effects on transmission lines	300
<i>David A. Larrabee</i>	
Multipath Routing for video-streaming services over IEEE 802.11e Ad hoc Networks.....	306
<i>Victor Carrascal Frias, Guillermo Diaz Delgado, Mónica Aguilar Igartua</i>	
Quality of Service in Mesh Mode IEEE 802.16 Networks.....	311
<i>Mehmet S. Kuran, Birkan Yilmaz, Fatih Alagoz, Tuna Tugcu</i>	
Optimizing SIP Service Provisioning in Internet Connected MANETs	316
<i>Marcel C. Castro, Andreas J. Kassler</i>	
Finite element model of the human head exposed to electrostatic field generated by Video Display Units.....	321
<i>Damir Cavka, Dragan Poljak, Andrés Peratta</i>	
Finite element thermal model of the human exposed to electric field generated from GSM base station	326
<i>Damir Cavka</i>	
A Simple Finite Element Model of Heat Transfer in the Human Eye.....	331
<i>Mario Cvetkovic, Damir Cavka, Dragan Poljak</i>	

Table of Contents

Modeling radar antenna in NEC	336
<i>Bože Tokić</i>	
Iterative Object Reconstruction from the Limited Spectrum Based on Soft Approach.....	340
<i>Josko Radic, Nikola Rozic, Mladen Russo</i>	
The Management Infrastructure of a Network Measurement System for QoS Parameters	345
<i>Alexandru Bikfalvi, Paul Patras, Cristian Mihai Vancea, Virgil Dobrota</i>	
Usage Limitations of Field Strength Probes for RADHAZ Survey.....	350
<i>Antonio Sarolic</i>	
Teaching Electromagnetic Radiation effects on Humans.....	355
<i>David A. Larrabee</i>	
Modeling panel antenna in NEC	360
<i>Tihomir Pusnik, Dragan Poljak</i>	
Wideband Propagation Channel Parameters Measurement Inside an University Building.....	365
<i>M. Mrse, Z. Blazevic, I. Zanchi, I. Marinovic</i>	