

International Journal on Advances in Telecommunications



2012 vol. 5 nr. 3&4

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2012) by International Academy, Research, and Industry Association (IARIA)
Please refer to the Copyright Information page.

Printed by Curran Associates, Inc. (2013)

International Academy, Research, and Industry Association (IARIA)
412 Derby Way
Wilmington, DE 19810

Phone: (408) 893-6407
Fax: (408) 527-6351

petre@iaria.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

CONTENTS

pages: 111 - 119

Bare PC SIP User Agent Implementation and Performance for Secure VoIP

Roman Yasinovskyy, Towson University, USA
Andre Alexander, Towson University, USA
Alexander Wijesinha, Towson University, USA
Ramesh Karne, Towson University, USA

pages: 120 - 130

Blocking Performance of Multi-rate OCDMA PONs with QoS Guarantee

John S. Vardakas, University of Patras, Greece
Ioannis D. Moscholios, University of Peloponnese, Greece
Michael D. Logothetis, University of Patras, Greece
Vassilios G. Stylianakis, University of Patras, Greece

pages: 131 - 140

Analysis of a MAC Layer Covert Channel in 802.11 Networks

Ricardo Goncalves, CINA, Portugal
Murali Tummala, Naval Postgraduate School, USA
John McEachen, Naval Postgraduate School, USA

pages: 141 - 152

A framework for the design, development and evaluation of Cognitive Wireless Sensor Networks

Alvaro Araujo, Universidad Politecnica de Madrid, Spain
Elena Romero, Universidad Politecnica de Madrid, Spain
Javier Blesa, Universidad Politecnica de Madrid, Spain
Octavio Nieto-Taladriz, Universidad Politecnica de Madrid, Spain

pages: 153 - 162

Understanding Internet User Behavior: Towards a Unified Methodology

Christina Lagerstedt, Acreo AB, Sweden
Andreas Aurelius, Acreo AB, Sweden
Olle Findahl, World Internet Institute, Sweden
Hemamali Pathirana, Acreo AB, Sweden
Claus Popp Larsen, Acreo AB, Sweden

pages: 163 - 172

Using Network Proximity for Context-aware Browsing

Dmitry Namiot, Lomonosov Moscow State University, Russia
Manfred Sneps-Sneppe, Ventspils University College, Latvia

pages: 173 - 187

Inter-domain Peering and Overlay Topologies Support for Content-Aware Networks Dedicated to Multimedia Applications

Eugen Borcoci, University POLITEHNICA of Bucharest, Romania

Radu Dinel Miruta, University POLITEHNICA of Bucharest, Romania
Serban Georgica Obreja, University POLITEHNICA of Bucharest, Romania

pages: 188 - 203

PAPR Reduction of OFDM Signals using Gradual Projection Active Constellation Extension and Sequential Block Grouping Tone Reservation Hybrid Scheme

Eugen Victor Cuteanu, Politehnica University, Faculty of Electronics and Telecommunications, Romania
Alexandru Isar, Politehnica University, Faculty of Electronics and Telecommunications, Romania

pages: 204 - 215

Application of Control theory to a Commercial Mobile Service Support System

Payam Amani, Dept. of Electrical and Information Technology, Lund University, Sweden
Bertil Aspernäs, Ericsson AB, Sweden
Karl Johan Aström, Dept. of Automatic Control, Lund University, Sweden
Manfred Dellkrantz, Dept. of Automatic Control, Lund University, Sweden
Maria Kihl, Dept. of Electrical and Information Technology, Lund University, Sweden
Gabriela Radu, Lund University, Sweden
Anders Robertsson, Dept. of Automatic Control, Lund University, Sweden
Andreas Torstensson, Ericsson AB, Sweden

pages: 216 - 228

The MoSaKa QoS System: Architecture and Evaluation

Philipp Drieß, Ilmenau Technical University, Germany
Florian Evers, Ilmenau Technical University, Germany
Markus Brückner, Ilmenau Technical University, Germany

pages: 229 - 238

Throughput, Stability and Fairness of RFID Anti-Collision Algorithms with Tag Cooperation

Ramiro Sámano-Robles, Instituto de Telecomunicações, Portugal
Atilio Gameiro, Instituto de Telecomunicações, Portugal

pages: 239 - 251

Information Content of Very High Resolution SAR Images: Study of Dependency of SAR Image Structure Descriptors with Incidence Angle

Corneliu Octavian Dumitru, German Aerospace Center (DLR), Germany
Mihai Datcu, German Aerospace Center (DLR), Germany

pages: 252 - 263

Efficient Forwarding Approach on Boundaries of Voids in Wireless Sensor Networks

Mohamed Aissani, Ecole Militaire Polytechnique (EMP), Algeria
Sofiane Bouznad, Ecole Militaire Polytechnique (EMP), Algeria
Salah-Eddine Allia, Ecole Militaire Polytechnique (EMP), Algeria
Abdelmalek Hariza, Ecole Militaire Polytechnique (EMP), Algeria

pages: 264 - 273

Carrier Phase Discrimination for a Common Correlation Interval GNSS Receiver Architecture

Pedro A. Roncagliolo, Universidad Nacional de La Plata, Argentina
Javier G. Garcia, Universidad Nacional de La Plata, Argentina
Carlos H. Muravchik, Universidad Nacional de La Plata, Argentina

pages: 274 - 283

Maximal Rate of Mobile Wireless Optical Link in Indoor Environment

Nicolas Barbot, Xlim C2S2 UMR CNRS 7252 University of Limoges, France

Seyed Sina Torkestani, Xlim C2S2 UMR CNRS 7252 University of Limoges, France

Stephanie Sahuguede, Xlim C2S2 UMR CNRS 7252 University of Limoges, France

Anne Julien-Vergonjanne, Xlim C2S2 UMR CNRS 7252 University of Limoges, France

Jean-Pierre Cances, Xlim C2S2 UMR CNRS 7252 University of Limoges, France

pages: 284 - 296

Reliable JPEG Image Transmission Using Unequal Error Protection with Modified Non-Binary Turbo Codes

Tulsi Pawan Fowdur, Universtiy of Mauritius, Mauritius

Yashvin Beni, University of Mauritius, Mauritius