International Journal on Advances in Telecommunications

















The International Journal on Advances in Telecommunications is published by IARIA.

ISSN: 1942-2601

journals site: http://www.iariajournals.org

contact: petre@iaria.org

Responsibility for the contents rests upon the authors and not upon IARIA, nor on IARIA volunteers,

staff, or contractors.

IARIA is the owner of the publication and of editorial aspects. IARIA reserves the right to update the

content for quality improvements.

Abstracting is permitted with credit to the source. Libraries are permitted to photocopy or print,

providing the reference is mentioned and that the resulting material is made available at no cost.

Reference should mention:

International Journal on Advances in Telecommunications, issn 1942-2601 vol. 3, no. 1 & 2, year 2010, http://www.iariajournals.org/telecommunications/

The copyright for each included paper belongs to the authors. Republishing of same material, by authors or persons or organizations, is not allowed. Reprint rights can be granted by IARIA or by the authors, and

must include proper reference.

Reference to an article in the journal is as follows:

<Author list>, "<Article title>"
International Journal on Advances in Telecommunications, issn 1942-2601
vol. 3, no. 1 & 2, year 2010, <start page>:<end page> , http://www.iariajournals.org/telecommunications/

IARIA journals are made available for free, proving the appropriate references are made when their content is used.

Sponsored by IARIA www.iaria.org

International Journal on Advances in Telecommunications Volume 3, Numbers 1 & 2, 2010

CONTENTS	
Narrowband Interference Suppression for MIMO MB-OFDM UWB Communication Systems	1 - 8
Georgi Iliev, Technical University of Sofia, Bulgaria	
Zlatka Nikolova, Technical University of Sofia, Bulgaria	
Vladimir Poulkov, Technical University of Sofia, Bulgaria	
Miglen Ovtcharov, Technical University of Sofia, Bulgaria	
Efficient Variable Block Size Selection for AVC Low Bitrate Applications	9 - 27
Ihab Amer, Advanced Technology Information Processing Systems, Canada	
Graham Jullien, Advanced Technology Information Processing Systems, Canada	
Wael Badawy, IntelliView Technologies Inc., Canada	
Adrian Chirila-Rus, Xilinx Inc., USA	
Robert Turney, Xilinx Inc., USA	
Rana Hamed, German University in Cairo (GUC), Egypt	
Exploiting Concatenation in the Design of Low-Density Parity-Check Codes	28 - 38
Marco Baldi, Polytechnic University of Marche, Italy	
Giovanni Cancellieri, Polytechnic University of Marche, Italy	
Franco Chiaraluce, Polytechnic University of Marche, Italy	
An Iterative Algorithm for Compression of Correlated Sources at Rates Approaching the	39 - 48
Slepian-Wolf Bound: Theory and Analysis	
F. Daneshgaran, Calif. State Univ, USA	
M. Laddomada, Texas A&M University-Texarkana, USA	
M. Mondin, Politecnico di Torino, Italy	
Scalable and Robust Wireless JPEG 2000 Images and Video Transmission with Adaptive	49 - 58
Bandwidth Estimation	
Max Agueh, LACSC - ECE, France	
Stefan Ataman, LACSC - ECE, France	
Cristina Mairal, LACSC - ECE, France	
Henoc Soude, LIASD - Université Paris 8, France	
Modelling of Mobile Workflows with UML	59 - 71
Michael Decker, University of Karlsruhe (TH), Germany	
Network Prediction for Energy-Aware Transmission in Mobile Applications	72 - 82
Ramya Sri Kalyanaraman, Helsinki Institute for Information Technology HIIT, Finland	

Yu Xiao, Aalto University, Finland
Antti Ylä-Jääski, Aalto University, Finland

J. Gaber, Belfort University, France

P. Lorenz, University of Haute-Alsace, France

lighly Accurate Location-Aware Information Delivery With PosPush hao Junhui, NEC Laboratories, China Jang Yongcai, NEC Laboratories, China	83 - 92
Two-Nodes Mobile IP Network	
Yacine Benallouche, Université de Versailles Saint-Quentin, France	
Dominique Barth, Université de Versailles Saint-Quentin, France	
Analysis of Communication Overhead for a Clustering-Based Security Protocol in Ad Hoc	104 - 113
Networks	
C. Maghmoumi, University of Haute-Alsace, France	
H. Abouaissa, University of Haute-Alsace, France	