

2007 14th IEEE Symposium on Communications and Vehicular Technology in the Benelux

**Delft, Netherlands
15 November 2007**



IEEE Catalog Number:
ISBN 10:
ISBN 13:

CFP07507-PRT
1-4244-1369-9
978-1-4244-1369-0

Table of Contents

Digital Compensation Of RF Imperfections For Broadband Wireless Systems	1
<i>Deepaknath Tandur and Marc Moonen</i>	
Power allocation for OFDM transmission with DF relaying	6
<i>Luc Vandendorpe, Rodolfo Torrea Duran, Jerome Louveaux and Abdellatif Zaidi</i>	
Efficient Pilot Pattern for OFDM-based Cognitive Radio Channel Estimation - Part 1.....	12
<i>I. Rashad, I. Budiarjo, and H. Nikoogar</i>	
Synchronization-Free Data Detection for UWB Communications.....	17
<i>Vincenzo Lottici, Zhi Tian and Geert Leus</i>	
Matched Subspace Based Correction of Large Errors in UWB Localization	22
<i>Sayit Korkmaz and Alle-Jan van der Veen</i>	
A New Priority Scheme for WDM Star Networks	26
<i>Chrisoula Papazoglou, Panagiotis G. Sarigiannidis, Georgios I. Papadimitriou, Andreas S. Pomportsis</i>	
Performance Analysis of IEEE 802.11 DCF in non- Saturated Single-hop Wireless Local Area Networks	29
<i>Kaveh Ghaboosi, Matti Latva-aho, Yang Xiao</i>	
Radio Access Selection In Multi-Radio Access Systems.....	36
<i>Ljupco Jorguŝeski, Remco Litjens, Chen Zhiyi, Homayon Nikoogar</i>	
The impact of Rayleigh fading on packet loss in FEC-protected real-time packet-based transmission systems	41
<i>Julie Neckebroek, Frederik Vanhaverbeke, and Marc Moeneclaey</i>	
A Coexistence Model of IEEE 802.15.4 and IEEE 802.11b/g.....	46
<i>Wei Yuan, Xiangyu Wang and Jean-Paul M. G. Linnartz</i>	
Low Power Ultra-Wide-Bandpass Super-regenerative Filter.....	51
<i>M. Anis, R. Tielert, N. Wehn</i>	
Compensated estimators for characterizing interference in a Rayleigh fading environment.....	53
<i>Teun M.J. van Berkel, Jean-Paul M.G. Linnartz and Chin Keong Ho</i>	
OFDMA Constrained Resource Allocation with imperfect Channel Knowledge	57
<i>Felix Brah, Luc Vandendorpe, and Jerome Louveaux</i>	
Efficient Pilot Pattern for OFDM-based Cognitive Radio Channel Estimation - Part 2.....	62
<i>I. Budiarjo, I. Rashad, and H. Nikoogar</i>	
Digital Compensation of Amplifier Nonlinearities in the Receiver of a Wireless System	67
<i>Cedric Dehos and Tim C. W. Schenk</i>	
Channel estimation pilots for Single Frequency Networks	73
<i>Alessio Filippi, Paul van Voorthuisen</i>	
Characterization of a confined environment based on acoustic and reverberation chamber theory. Comparison with the case of a car.....	78
<i>Olivier Delangre, Philippe De Doncker, Stephane Van Roy, Martine Lienard, Pierre Degauque</i>	
On the Capability of a Radar Network to Support Communications.....	82
<i>G. Lellouch, H. Nikoogar</i>	
Performance Study of a Ring Resonator-Based Optical Beam Forming System for Phased Array Receive Antennas	87
<i>R. Meijerink, A. Meijerink, D. A. I. Marpaung, C. G. H. Roeloffzen, and W. van Etten</i>	
Impact of RF Impairments on the Performance of Multi-carrier and Single-carrier based 60 GHz Transceivers	92
<i>Umar H. Rizvi, Gerard J. M. Janssen, and Jos H. Weber</i>	

Table of Contents

Simple, adaptively-prioritised, spatially-reusable medium access control through the Dutch auction, with decentralised implementation for synchronised terminals.....	97
<i>Virgilio Rodriguez, Friedrich Jondral</i>	
Feedback Compression for Correlated Broadcast Channels.....	100
<i>Claude Simon, Ruben de Francisco, Dirk T.M. Slock, and Geert Leus</i>	
Performance Analysis of DVB-H OFDM Hierarchical Modulation in Impulse Noise Environment.....	104
<i>V. Tamgnoue, V. Moeyaert, S. Bette, P. Mégret</i>	
Comparison of Single- and Multi-carrier Block Transmissions under the Effect of Nonlinear HPA.....	108
<i>Haibing Yang, Peter F.M. Smulders and Erik R. Fledderus</i>	
Wiener Feedback Filtering for Suppression of Residual ISI and Correlated Noise in MC-CDMA.....	115
<i>Haibing Yang and Jean-Paul M. G. Linnartz,</i>	
Microsoft Word - bstatovci_AC approach_SCVT07.....	120
<i>Brikena Statovci-Halimi</i>	
Proxying UPnP service discovery and access to a non- IP Bluetooth network on a mobile phone.....	124
<i>A. Delphinanto, A.M.J. Koonen, M.E. Peeters, F.T.H. den Hartog</i>	
OFDM with BICM-ID and Rotated MPSK Constellations and Signal Space Diversity	129
<i>Nauman F. Kiyani and Jos H. Weber</i>	
A New Hybrid Medium Access Mechanism with Integrated QoS Support for Wireless LANs	133
<i>T. D. Lagkas, G. I. Papadimitriou, P. Nicopolitidis, and A. S. Pomportsis</i>	
Quantitative Comparison of Resource Management Strategies in UMTS-WLAN Integration at the Radio Access Level.....	138
<i>N. Vulic, P. Patil, S. Heemstra de Groot and I. Niemegeers</i>	
An Efficient Clustering Oriented Algorithm for Message Scheduling on WDM Star Networks	143
<i>Sophia G. Petridou, Panagiotis G. Sarigiannidis, Georgios I. Papadimitriou, Andreas S. Pomportsis</i>	
A Lightweight and Self-adaptive Ad Hoc Routing Scheme for EUROPCOM Networks.....	148
<i>Liang Xia, Anthony Lo, and Ignas Niemegeers, Tim Bauge</i>	
Topology, Shortest Path Routing and Lifetime of ad-hoc Networks.....	151
<i>.S.S.Dhillon, Y. Zhou</i>	
Clustering Based Scheduling: A New Approach to the Design of Scheduling Algorithms for WDM Star Networks.....	156
<i>Sophia G. Petridou, Panagiotis G. Sarigiannidis, Georgios I. Papadimitriou, Andreas S. Pomportsis</i>	
TCP Throughput Measurements and Analysis in Wireless Multi-Hop Networks.....	161
<i>Michael Winkler, Cosimo Palazzo, Marco Bartolozzi</i>	