

IEEE ISWCS 2007 Preliminary Program

OS: oral presentation session; PS: poster presentation session

21 oral presentation sessions; 6 poster presentation sessions

5 papers per oral session except for OS 7A-7C that may have 6 papers; 20 minutes / oral presentation

Note: Room 2 and Room 3 can be merged. The name of each room will be provided later. The welcome reception will be hosted by Trondheim Kommune at Archbishop's Palace (Erkebispegården, Herresalen). The conference dinner will be at Radisson SAS Royal Garden Hotel.

16 October 2007 (Tuesday)

	Room 1	Room 2	Room 3	Room 4	Lounge	
08:30-09:00	Registration & Information					
09:00-10:30		Tutorial 1	Tutorial 3	Tutorial 5		
10:30-11:00		Coffee Break				
11:00-12:30		Tutorial 1	Tutorial 3	Tutorial 5		
12:30-14:00		Lunch Break				
14:00-15:30		Tutorial 2	Tutorial 4	Tutorial 6		
15:30-16:00		Coffee Break				
16:00-17:30		Tutorial 2	Tutorial 4	Tutorial 6		

17 October 2007 (Wednesday)

	Room 1	Room 2	Room 3	Room 4	Lounge	
08:00-08:30	Registration & Information					
08:30-09:00		Opening & Welcome Address by Prof. Arne Sølvsberg, Faculty Dean, NTNU				
09:00-09:45		Keynote Speech 1 - Prof. David Gesbert, Eurecom Institute				
09:45-10:30		Keynote Speech 2 - Dr. Hans Martin Ritt, MathWorks				
10:30-11:00		Coffee Break				
11:00-12:40		OS 1A	OS 1B	OS 1C		
12:40-14:00		Lunch at Radisson SAS Royal Garden Hotel				
14:00-15:40		OS 2A	OS 2B	OS 2C	PS 1A	
15:40-16:00		Coffee Break				
16:00-17:40		OS 3A	OS 3B	OS 3C	PS 1B	
18:30-20:00	Welcome Reception at Archbishop's Palace					

18 October 2007 (Thursday)

	Room 1	Room 2	Room 3	Room 4	Lounge
08:00-08:30	Registration & Information				
08:30-09:30		Keynote Speech 3 - Prof. Dr. Andreas Molisch, Mitsubishi Electric Research Labs			
09:30-10:30		Keynote Speech 4 - Prof. Mario Gerla, UCLA			
10:30-11:00		Coffee Break			
11:00-12:40		OS 4A	OS 4B	OS 4C	PS 2A
12:40-14:00		Lunch at Radisson SAS Royal Garden Hotel			
14:00-15:40		OS 5A	OS 5B	OS 5C	PS 2B
15:40-16:00		Coffee Break			
16:00-17:30		Panel			
19:30-22:00		Conference Dinner at Radisson SAS Royal Garden Hotel			

19 October 2007 (Friday)

	Room 1	Room 2	Room 3	Room 4	Lounge
09:00-10:40	Information	OS 6A	OS 6B	OS 6C	PS 3A
10:40-11:00		Coffee Break			
11:00-13:00		OS 7A	OS 7B	OS 7C	PS 3B
13:00-14:00	Lunch & Closing				

Tutorials

Tutorial 1: Multipath Characterization of Antennas and Mobile Terminals for Diversity and MIMO Systems
 - Per-Simon Kildal and Jan Carlsson, Chalmers University of Technology, Sweden

Tutorial 2: Ultra-Wideband Technology and its Standardization for Wireless Personal Area Networks
 - Huan-Bang Li, NICT, Japan

Tutorial 3: From Cognitive Radios to Cognitive Wireless Networks
 - Petri Mähönen and Marina Petrova, RWTH Aachen University, Germany

Tutorial 4: Multiuser Communications
 - Ralf Müller, NTNU, Norway

Tutorial 5: Introduction to ITS (Intelligent Transportation Systems) Communication Solutions
 - Per-Jarle Furnes and Runar Søråasen, Q-free, Norway

Tutorial 6: RFID Systems
 - Boon Sain Yeo, Wavex Technologies, Singapore

Oral Presentation Sessions

OS 1A – Coding/Decoding

- 18942 Progressive Hypercube Decoding
Francisco Monteiro, Ian Wassell, University of Cambridge
- 93314 Optimum Reed-Solomon Erasure Coding in Fault Tolerant Sensor Networks
Ali Fakoorian, Hassan Taheri, University of Amirkabir
- 38074 EXIT Charts for PUM Woven Turbo Codes
Chris Nelson, Lina Fagoonee, Lancaster University
- 24291 Layered LDGM Codes: A Capacity-Approaching Structure for Arbitrary Rates
Miguel González-López, F. J. Vázquez-Araújo, Luis Castedo, Universidad de A Coruña; Javier Garcia-Frias, University of Delaware
- 38702 Concatenated Trellis and Coordinate Interleaved Differential Space-Time Block Codes for OFDM
Kenan Aksoy, Ümit Aygölü, Istanbul Technical University

OS 1B – Wireless Sensor Networks

- 33679 Energy Consumption Optimization in Data Transmission from Correlated Sensor Nodes
Liuguo Yin, Changmian Wang, Geir E. Øien, Norwegian University of Science and Technology
- 60171 An Efficient Key Predistribution Scheme in Wireless Sensor Networks
Dai Hangyang, Xu Hongbing, University of Electronic Science and Technology of China
- 49612 A Cluster-Based Approach to Fault Detection and Fault Recovery in Wireless Sensor Networks
Gayathri Venkataraman, Sabu Emmanuel, Srikanthan Thambipillai, Nanyang Technological University
- 79275 MEPA: A New Protocol for Energy-Efficient, Distributed Clustering in Wireless Sensor Networks
Hung Ngo, Sungyoung Lee, Young-Koo Lee, Kyung Hee University
- 74021 Bluetooth Sensor Network Positioning System with Dynamic Calibration
T. Fernández-Caramés, Javier Rodas, Carlos J. Escudero, Daniel I. Iglesia, Universidad de A Coruña

OS 1C – MIMO

- 65311 Spatial Capacity Estimation for Correlated MIMO Channels Based on Measured SISO Data Records
Andreas Knopp, Christian A. Hofmann, Robert T. Schwarz, Mohamed Chouayakh, Berthold Lankl, Munich University of the Bundeswehr
- 57944 Link Adaptation with Distributed Jacobi Eigenbeamforming for MIMO Systems
Eduardo Zacarías, Stefan Werner, Risto Wichman, Helsinki University of Technology
- 23995 Measurements on the Impact of Sparse Multipath Components on the LOS MIMO Channel Capacity
Andreas Knopp, Robert T. Schwarz, Christian A. Hofmann, Mohamed Chouayakh, Berthold Lankl, Munich University of the Bundeswehr
- 23337 Average Error Probability of MIMO Diversity Systems in the Presence of Multiple Interferers
Daniel Figueiredo, Zihuai Lin, Troels B. Sørensen, Aalborg University
- 35157 Audio-Visual Wireless Streaming Platform for the Residential Environment Employing Mesh and MIMO Extensions
Ioannis Sarris, Mitsubishi ITE VIL; Inn Inn Er, Kong Peng Yong, Institute for Infocomm Research; Charline Guguen, Thomson

OS 2A – OFDM

- 82159 Error Propagation Mitigation for Iterative Channel Tracking, Detection and Decoding of BICM-OFDM Systems
Ido Nevat, Jinhong Yuan, University of New South Wales
- 91960 Queueing Analysis of OFDM Subcarrier Allocation in Wireless Multimedia Networks
Yan Zhang, Simula Research Laboratory; Yifan Chen, Nanyang Technological University

- 95650 Fast and Accurate OFDM Time and Frequency Synchronisation
Adrian Langowski, Poznan University of Technology
- 64437 Optimization of the Pulse Shape of OFDM Systems Using the Arrow-Hurwicz Algorithm
Raouia Ayadi,; Mohamed Siala, SUP'COM; Inès Kammoun, LETI Department - ENIS
- 38539 Coordinated Sub-Carrier and Band Hopping in OFDMA Based Systems
Muhammad Imadur Rahman, Aalborg University; Ragnar Reynisson, Motorola Denmark; Daniel Figueiredo, Ramjee Prasad, Aalborg University

OS 2B – Quality of Service

- 23073 Evaluation of Perceived QoS with Multimedia Applications in a Heterogeneous Wireless Network
Nemanja Vucevic, Francisco Bernardo, Anna Umbert, Lukasz Budzisz, Universitat Politècnica de Catalunya
- 73795 An Implementation of the User-Centric QoS Management Approach in Wireless Home Networks
Aleksej Spenst, Thorsten Herfet, Jochen Miroll, Saarland University
- 63424 User QoS-Based Multi-Channel Assignment Schemes under Multimedia Traffic Conditions
Javier Gozálviz, Maria del Carmen Lucas-Estañ, Joaquín Sánchez Soriano, University Miguel Hernández
- 46391 QoS Provisioning in IEEE 802.11e WLANs Through Reactive Monitoring
Filippo Cacace, Giulio Iannello, Luca Vollero, Massimo Vellucci, Università Campus Bio-Medico di Roma
- 77051 Optimization of QoS-Aware Packet Schedulers in Multi Service Scenarios over HSDPA
Daniela Laselva, Nokia Siemens Networks; Jens Steiner, Wirtek; Fahad Khokhar, University of Aalborg ; Troels E. Kolding, Jeroen Wigard, Nokia Siemens Networks

OS 2C – Location-Based Services & Positioning

- 65054 On CBM-ICC Service Provision in UCWW
Ivan Ganchev, Mairtin O'Droma, Ning Wang, University of Limerick
- 98808 A Bayesian Approach for RF-Based Indoor Localisation
Widyawan, Martin Klepal, Dirk Pesch, Cork Institute of Technology
- 51624 Road-Constrained Target Tracking in GSM Networks
Miao Zhang, Stefan Knedlik, Otmar Loffeld, University of Siegen
- 18800 An Optimal Strategy for Power Sensitive Localization in Ad Hoc Networks
Paula Tarrío, Ana M. Bernardos, José R. Casar, Universidad Politècnica de Madrid
- 18887 The Potential for Location-Based Services with Wi-Fi RFID Tags in Citywide Wireless Networks
Henrik Ljøgdø Moen, NTNU; Thomas Jelle, Trådløse Trondheim AS

OS 3A – Modulation & Equalization

- 25003 Turbo Equalization with Irregular Turbo Codes
Vladimir Trajkovic, Minyue Fu, Peter Schreier, University of Newcastle
- 88709 Low-Complexity Soft-Output Reduced-State Equalization for EDGE
Ayman Abdel-Samad, MIMOS Berhad
- 34176 Rate 2/3 Trellis-Coded 8-ary Elliptical Phase Shift Keying Modulation
Yantao Qiao, Chunyi Song, Shigeru Shimamoto, Waseda University
- 28649 Pre-Equalization of Continuous Phase Modulation for Multipath Fading Channels
Baris Ozgul, Mutlu Koca, Hakan Delic, Bogazici University; Gordon Stüber, Georgia Institute of Technology
- 57955 Modulation Classification in Multipath Fading Environments
Lin Yang, Xuchu Dai, University of Science and Technology of China

OS 3B – WiMAX & Ad Hoc Networks

- 91205 Interference Mitigation Strategies for WiMAX Networks
Nicola Riato, Nokia Siemens Networks SpA; Federico Serrelli, Politecnico di Milano; Andrea Sala, Nokia Siemens Networks SpA; Antonio Capone, Politecnico di Milano
- 44033 Performance Evaluation of IEEE 802.16 WiMAX Link With Respect to Higher Layer Protocols
Faqr Zarrar Yousaf, Kai Daniel, Christian Wietfeld, University of Dortmund
- 35786 Circuit Elimination Based Link State Routing in Mobile Ad Hoc Networks
Yaoda Liu, Hans-Peter Schwefel, CTIF, Aalborg University; Frank Li, UniK, Norway; Anders Nickelsen, CTIF
- 22671 Delay-Transmission Probability Tradeoffs in IEEE 802.11 Based Ad Hoc Networks
Wenjing Wang, Mainak Chatterjee, University of Central Florida; Kevin Kwiat, AFRL
- 82826 Assessment of Coexistence Performance for WiMAX Broadband in High Altitude Platform Cellular System and Multiple-Operator Terrestrial Deployments
Zhe Yang, Abbas Mohammed, Tommy Hult, Blekinge Institute of Technology; David Grace, University of York

OS 3C – Mobile Channels & Capacity

- 41177 A Comparison of Spherical Versus Plane-Wave Multiple-Plateau Diffraction Solution for Predicting Path Loss in Urban Environments
José-Víctor Rodríguez, José-María Molina García-Pardo, Leandro Juan-Llacer, Universidad Politécnica de Cartagena
- 32166 Approximate Solutions to the Distribution of the Fading Intervals of Lognormal Processes
Néji Youssef, SUP'COM; Matthias Pätzold, Kun Yang, Agder University College
- 28827 The Impact of Shadowing on the Capacity of Mobile Fading Channels
Gulzaib Rafiq, Matthias Pätzold, Agder University College
- 29226 Channel Capacity for Single Branch Receivers Operating in Generalized Fading Scenarios
Daniel Benevides da Costa, Michel Daoud Yacoub, State University of Campinas
- 20724 Complexity Comparison of MIMO Channel Modelling Methods
Pekka Kyösti, Elektrobit; Tommi Jämsä, Elektrobit Testing Ltd

OS 4A – Channels & Measurements & Estimation

- 90172 Car-to-Car Radio Channel Measurements at 5 GHz: Pathloss, Power-Delay Profile, and Delay-Doppler Spectrum
Alexander Paier, Vienna University of Technology; Johan Karedal, Lund University; Nicolai Czink, Vienna University of Technology; Helmut Hofstetter, Freelance; Charlotte Dumard, Thomas Zemen, Forschungszentrum Telekommunikation Wien (ftw.); Fredrik Tufvesson, Lund University; Andreas Molisch, Mitsubishi Electric Research Labs; Dr. Christoph Mecklenbräuker, Forschungszentrum Telekommunikation Wien (ftw.)
- 28701 Design of Measurement-Based Wideband Mobile Radio Channel Simulators
Dmitry Umansky, Matthias Pätzold, Agder University College
- 36943 Empirical Distribution Approach to the Robustness Measure for Non-Stationary Data
Hyeon-Cheol Lee, Korea Aerospace Research Institute; Guillaume Raux, Don R. Halverson, Texas A&M University
- 10297 Blind Carrier Frequency Offset Estimation for Cross QAM Constellations
Stefania Colonnese, Gianpiero Panci, Stefano Rinauro, Gaetano Scarano, University of Rome "Sapienza"
- 32119 Efficient Sum-of-Sinusoids-Based Simulation of Mobile Fading Channels with Asymmetrical Doppler Power Spectra
Carlos Adrian Gutierrez-Diaz-de-Leon, Politechnic University of Catalonia; Matthias Pätzold, Agder University College

OS 4B – MAC & Cross-Layer Design

- 72438 Design and Analysis of Enhanced Grouping DCF Scheme for the MAC Layer Enhancement of 802.11n with Ultra-High Data Rate
Ting Kuo Chang, Feipei Lai, Hsiu-Hui Lee, National Taiwan University
- 66079 Multi-Relay MAC for Wireless Ad Hoc Networks Using Directional Antenna
Yong Wang, Hao Zhu, Florida International University
- 44334 Cross-Layer Interactions in UMTS Evolved UTRAN (E-UTRAN)
Paul Bucknell, Philips Research Laboratories
- 51643 Cross-Layer Resource Allocation for MC-CDMA
Virginia Corvino, University of Bologna; Velio Tralli, University of Ferrara; Roberto Verdone, University of Bologna
- 69704 Joint Adaptive Modulation, Diversity Combining, and Power Control for Uplink Transmission in Two-Cell Wireless Networks
Anders Gjendemsjo, Norwegian University of Science and Technology; Hong-Chuan Yang, University of Victoria; Mohamed-Slim Alouini, Texas A&M University at Qatar; Geir E. Øien, Norwegian University of Science and Technology

OS 4C – Energy/Power Aware Design

- 25892 Topology Generation and Power Assignment in IR-UWB Networks
Daniel Bielefeld, Rudolf Mathar, RWTH Aachen University
- 69861 On Achievable Data Rates and Optimal Power Allocation in Fading Channels with Imperfect CSI
Serguei Primak, University of Western Ontario; Kareem Baddour, Tricia Willink, Communications Research Centre; Khaled Almoustafa, The University of Western Ontario
- 59991 Cooperative Power Saving Strategies in Wireless Networks: An Agent-Based Model
Federico Albiero, Marcos Katz, VTT - Technical Research Centre of Finland; Frank Fitzek, University of Aalborg
- 70489 Energy-Efficient Adaptive Route Configuration in Short-Range Wireless Ad Hoc Networks
Even Krogsvæn, Changmian Wang, Geir E. Øien, Norwegian University of Science and Technology; Saska Lindfors, Helsinki University of Technology
- 15864 Energy-Aware Routing Optimization in Ad Hoc Wireless Networks Under QoS Constraints
Raffaele Rugin, University of Ferrara; Antoine Dejonghe, IMEC Belgium; Gianluca Mazzini, Velio Tralli, University of Ferrara

OS 5A – Antennas

- 58396 Performance Analysis of Transmit Diversity Systems with Multiple Antenna Replacement
Kihong Park, Young-Chai Ko, Korea University; Hong-Chuan Yang, University of Victoria
- 37988 Link Performance of an ESPAR-Antenna Array in Rich Scattering and Clustered Channels
Robert Bains, Ralf Müller, Norwegian University of Science and Technology; Antonis Kalis, Athens Information Technology
- 26328 Analysis of Antenna Array Receivers Configurations for Satellite Earth Station Modems
Miguel A. Salas Natera, Ramon Martínez Rodríguez-Osorio, Leandro de Haro Ariet, Universidad Politécnica de Madrid
- 85172 Cross Slot Antenna with U-Shaped Tuning Stub for Ultra Wideband Applications
Dawood Javan, Islamic Azad University of Mashhad; Nader Sargolzaei, Azad University of Mashhad
- 99458 Diversity Efficiency of Multimode Antennas Impacted by Finite Pattern Correlation and Branch Power Imbalances
Oliver Klemp, Delphi Delco Electronics Europe GmbH; Hermann Eul, Infineon

OS 5B – Sensor & Body Area Networks

- 11641 IEEE Body Area Networks for Medical Applications
Bin Zhen, Huan-Bang Li, NICT; Ryuji Kohno, Yokohama National University
- 45793 Privacy Protection Mechanisms for Hybrid Hierarchical Wireless Sensor Networks
Anelia Mitseva, Aalborg University; Matthias Gerlach, Fraunhofer FOKUS; Neeli Prasad, Aalborg University
- 89715 Comparisons of ZigBee Personal Area Network (PAN) Interconnection Methods
Sewook Jung, Alexander Chang, Mario Gerla, UCLA
- 19635 A QoS-Aware Routing Service Framework for Biomedical Sensor Networks
Xuedong Liang, University of Oslo; Ilanko Balasingham, Norwegian University of Science and Technology
- 39695 Cognitive Temporary Bypassing for Reliable Transmission in Wireless Ad Hoc Networks
Yasushi Yamao, Kenichi Nagao, University of Electro-Communications

OS 5C – Coding & Detection

- 12085 Spatial Loading in V-BLAST Systems with Limited Feedback and ZF-OSIC Detection
Maurizio Magarini, Politecnico di Milano
- 46760 Automotive Ultrasonic Sensor Array for Short-Range Targets Detection
Hiroyuki Hatano, Takaya Yamazato, Masaaki Katayama, Nagoya University
- 13009 SINR Analysis for Full-Rate Linear Dispersion Code Using Linear MMSE
Mabruk Gheryani, Zhiyuan Wu, Yousef Shayan, Concordia University
- 94096 On the Optimized Patent-Free LDPC Code Design for Content Distribution Systems
Dejan Vukobratovic, Vojin Senk, University of Novi Sad
- 87341 Enhanced Energy Detector for IEEE 802.22 WRAN Systems Using Maximal-to-Mean Power Ratio
Guanbo Zheng, Ning Han, Xiaoge Huang, Sung Hwan Sohn, Jae Moun Kim, Inha University

OS 6A – Wireless Systems

- 57410 System Concept and Service Architecture in Pervasive Environments Based on WWRF Requirements
Klaus David, University of Kassel
- 65186 Wireless Vehicular Adaptive Radio Resource Management Policies in Congested Channels
Miguel Sepulcre, Javier Gozávez, University Miguel Hernández
- 99587 Lab and Research Activities at Wireless Trondheim
Steinar Andresen, John Krogstie, Norwegian University of Science and Technology; Thomas Jelle, Trådløse Trondheim AS
- 75441 Analyzing IKEv2 Performance when Protecting Mobile IPv6 Signaling
Zoltán Faigl, Budapest University of Technology and Economics; Stefan Lindskog, Anna Brunstrom, Karlstad University
- 28153 Applications of Parameterized Packet Error Models for Simulating Mobile DVB-H Reception in an Urban Environment
Jussi Poikonen, University of Turku

OS 6B – Scheduling & Cooperative Networks

- 64921 Scheduling Algorithms for Increased Throughput Guarantees in Wireless Networks
Vegard Hassel, Telenor R&I; Sebastien de la Kethulle de Ryhove, Geir E. Øien, Norwegian University of Science and Technology

- 69512 Amplify-and-Forward Space-Time Coded Cooperation via Incremental Relaying
Behrouz Maham, University of Oslo; Are Hjørungnes, UniK - University Graduate Center
- 52064 Downlink Cooperative Communication Using Differential Relaying
Manav R. Bhatnagar, University of Oslo; Are Hjørungnes, UniK - University Graduate Center
- 56624 Efficient Configuration of Multi-Branch Wireless Cooperative Networks
Javad Vazifehdan, Delft University of Technology; Hamid Reza Shafiee, American University in Dubai
- 31323 A Bandwidth-Efficient Coded User-Cooperation Scheme for Flat Block Fading Channels
Khuong Ho Van, Tho Le-Ngoc, McGill University

OS 6C – Wireless Networks

- 97016 A Simplified Approach to Multicast Forwarding Gateways in MANET
Yannick Lacharité, Communications Research Centre Canada; Lars Landmark, UniK University Center Norway; Maoyu Wang, Communications Research Centre Canada
- 52112 Comparative Analysis of T-QoMIFA and HMRSVP
Esam Alnasouri, Andreas Mitschele-Thiel, Ali Diab, Technische Universität Ilmenau
- 49634 CHRIS: CHannel and Radio Interface Switching for Multi-Radio Wireless Mesh Network
Chengchen Hu, Tsinghua University; Kai Miao, John Vicente, Sanjay Rungta, John Ye, Intel Corporation
- 44953 Improving RED Performance During Handover in Wireless IP Networks
Dagang Li, Johan Theunis, Kristof Sleurs, Jan Potemans, Emmanuel Van Lil, Antoine Van de Capelle, Katholieke Universiteit Leuven
- 40064 Peak Load Reduction on the Mobile Networks by Applying New Pricing Policies
Kinan Ghanem, Nadir Zamin Khan, Andreas Mitschele-Thiel, Technische Universität Ilmenau

OS 7A – Transmission Technologies

- 39003 Level Crossing Rates and Average Fade Durations for Multibranch Diversity Receivers Operating on $\kappa - \mu$ Fading Channels
Daniel Benevides da Costa, Michel Daoud Yacoub, State University of Campinas
- 47264 A Novel Low Complexity Linear Precompensation Technique for Multi-User DSL Transmissions
Meryem Ouzzif, Issam Wahibi, Jérôme Le Masson, France Telecom Research & Development; Samir Saoudi, ENST Bretagne
- 18702 Diversity Gain Analysis of a Novel Dual-Frequency Multiple Access Relay Transmission Scheme
Babak H. Khalaj, Sharif University of Technology; Javier Del Ser, Pedro M. Crespo, Jesus Gutierrez-Gutierrez, CEIT and TECNUN (University of Navarra)
- 95331 Demonstration of Time-Reversal in Indoor Ultra-Wideband Communication: Time Domain Measurement
Ali Khaleghi, Ghais El Zein, Ijaz Haider Naqvi, Institut National des Sciences Appliquées
- 38617 On the Impact of Fixed Point DSP Implementation on Required Channel Estimator Complexity in Communication Receivers
Asghar Havashki, Per G. Kjeldsberg, Geir E. Øien, Lars Lundheim, Norwegian University of Science and Technology
- 23538 Parallel Block Signal Processing in High Speed Wireless Communication Systems
Klaus Hueske, University of Dortmund; Christian Vincent Sinn, University of Sydney; Jürgen Götze, University of Dortmund

OS 7B – CDMA

- 57848 Distance-Optimal Oversaturated CDMA Signature Ensemble
Jarkko Paavola, Valery Ipatov, University of Turku

- 40070 Slow and Fast Adaptation of Partial Equalization for MC-CDMA Systems
Barbara Masini, WiLab, University of Bologna; Flavio Zabini, University of Bologna; Andrea Conti, University of Ferrara
- 53062 Effect of MAI and Frequency Offset on the Performance of Coded MC-CDMA Synchronous Downlink Systems with MSK Modulation
Mohamad Abou El-Nasr, Arab Academy for Science and Technology (AAST); Heba Shaban, Virginia Tech (VT- MENA), AAST; Mohab A. Mangoud, AAST
- 52000 Single-User Receiver for Signature-Interleaved DS CDMA in Multipath Channel
Alexey Dudkov, Turku Centre for Computer Science (TUCS)
- 12032 Asynchronous Oversaturated Group Orthogonal CDMA Using Chip Interleaving with Zero Padding
Alexey Dudkov, Turku Centre for Computer Science (TUCS); Jarkko Paavola, University of Turku
- 27359 Downlink DSTBC-WCDMA in a Fast Time-Dispersive Channel
Edwin M. Umali, Yasushi Yamao, University of Electro-Communications (UEC Tokyo)

OS 7C – VoIP and Misc

- 95700 Dynamic Packet Bundling for VoIP Transmission over Rel'7 HSUPA with 10ms TTI Length
Oscar Fresan, Magister Solutions OY; Chen Tao, Nokia Technology Platforms; Karri Ranta-aho, Nokia Siemens Networks; Tapani Ristaniemi, Jyväskylä University
- 74556 Securing VoIP Services in Multi-Hop Wireless Mesh Networks
Yi Xian, Chin-Tser Huang, University of South Carolina
- 61533 Secure Priority Based Inter-Vehicle Communication MAC Protocol for Highway Safety Messaging
Chakkaphong Suthaputchakun, Aura Ganz, University of Massachussets
- 20177 A Hashing-Based Anti-Collision Algorithm for RFID Tag Identification
Giulio Binetti, Gennaro Boggia, Luigi Alfredo Grieco, Pietro Camarda, Politecnico di Bari
- 32537 A Novel Extraction Technique of Long Term Memory Effects in Solid State Amplifiers Based on Compound DynamicVolterra Models Structure
Zhour Madini, Abderazzak Bennadji, Edouard Ngoya, University of Limoges

Poster Presentation Sessions

PS 1A – Transmission Technologies I

- 11087 Error Rate Estimation for DS-IR and DS-UWB over Frequency Selective Channels
Lorenzo Piazza, Francesco Nuzzolo, University of Rome
- 19766 Asymptotically Optimal Sum-Rate of Random Unitary Beamforming with Double Thresholds
Hyung-Ki Sung, Jinhee Lee, Young-Chai Ko, Korea University
- 20967 Capacity-Based Link Design of MIMO Radio Systems
Akiyo Yoshimoto, Takeshi Hattori, Sophia University
- 22611 Analysis of the Achievable Rate for a Multiuser System with Multiple Antennas
Alberto Zanella, IEIT-CNR; Enrica Salbaroli, University of Bologna
- 23063 Frame-Synchronization for OFDM-Transmission with Sectorized Antenna Reception over Rapidly Fading Channels
Peter Klenner, Karl-Dirk Kammeyer, University of Bremen
- 26338 A Novel Low-Complexity Dynamic Frequency Selection Algorithm for Cognitive Radios
Sara Bahramian, Babak H. Khalaj, Sharif University of Technology
- 32068 Availability of Channel Reciprocity for Antenna Selection in OFDM TDD Systems
Yuan Zhu, Beijing University of Posts and Telecommunications; Nokia; Chunye Wang, Nokia Networks; Dacheng Yang, Beijing University of Posts and Telecommunications
- 52784 Performance Enhancement of Multiuser Time Reversal UWB Communication System
Ijaz Haider Naqvi, Ali Khaleghi, Ghais El Zein, IETR/INSA de Rennes
- 62031 An Efficient Fixed Complexity QRD-M Algorithm for MIMO-OFDM Using Per-Survivor Slicing
Thorben Detert, Rohde & Schwarz

- 48280 Acquisition of an Unknown Hopping Code in an Ultra-Wideband FH-OFDM System
Paavo Hahtola, VTT Technical Research Centre of Finland; Antti Anttonen, VTT Electronics;
Arne Mämmelä, VTT Technical Research Centre of Finland
- 95398 An Adaptive Cooperative Spectrum Sensing Scheme Based on the Optimal Data Fusion Rule
Lei Chen, Jun Wang, Shaoqian Li, University of Electronic Science and Technology of China

PS 1B – Wireless Networks I

- 16614 Security and AAA Architecture for WiFi-WiMAX Mesh Network
Abed Samhat, France Telecom R&D; Miloud Abdi, T&T Consulting
- 17144 Trust Integrated Cooperation Model for Mobile Ad Hoc Networks
Venkat Balakrishnan, Vijay Varadharajan, Uday K Tupakula, Phillip Lucs, Macquarie University
- 31140 HSDPA Link Adaptation Improvement Based on Node-B CQI Processing
David Martin-Sacristan, Jose F. Monserrat, Polytechnic University of Valencia; Daniel Calabuig,
Narcis Cardona, Technical University of Valencia
- 34022 Load-Balanced Cluster-Based Cooperative MIMO Transmission for Wireless Sensor Networks
Tianshi Gao, Lin Zhang, Yi Gai, Xiuming Shan, Tsinghua University
- 40349 Coverage Estimations in a WLAN-Based Open Broadband Access Network (OBAN)
Per H. Lehne, Terje Ormhaug, Telenor R&D; Olav Østerbø, Telenor R&I
- 44750 Genetic Algorithm to Optimize Node Placement and Configuration for WLAN Planning
Timo Vanhatupa, Marko Hännikäinen, Timo D. Hämäläinen, Tampere University of Technology
- 50593 A Distributed Probability Collectives Optimization Method for Multicast in CDMA
Wireless Data Networks
Mohammad Hossein Ameri Mehr, Babak H. Khalaj, Sharif University of Technology
- 55821 A Threshold-Based Hybrid Routing Protocol for MANET
Jing Xie, Luis Girones Quesada, Yuming Jiang, Norwegian University of Science and Technology
- 72931 EK-DYMOv6: Implementation of DYMO with PacketBB Conformance in IPv6
Environment
Sutaek Oh, Dongkyun Kim, Hong-Jong Jeong, Kyungpook National University
- 75169 Enhanced Operation of DQMAN Based Wireless Ad Hoc Networks
Jesus Alonso, CTTC; Elli Kartsakli, Universitat Politècnica de Catalunya; Alex Cateura, UPC;
Christos Verikoukis, CTTC; Luis Alonso, UPC
- 86474 Interference Aware Routing Protocols over Ad Hoc UWB Networks
Floriano De Rango, Peppino Fazio, Fiore Veltri, Salvatore Marano, University of Calabria

PS 2A – Transmission Technologies II

- 11127 Soft Versus Hard Interference Cancellation in MMSE OSIC MIMO Detector: A Comparative Study
Jun Wang, Shaoqian Li, University of Electronic Science and Technology of China
- 63896 Space-Time Adaptive MMSE Multiuser Decision Feedback Detectors with Multiple
Feedback Interference Cancellation for CDMA Systems
Yunlong Cai, Rodrigo de Lamare, University of York
- 71756 Multiple Antennas Bluetooth System for RSSI Stabilization
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- 54307 Constrained Constant Modulus RLS-Based Blind Adaptive Beamforming Algorithm for Smart Antennas
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- 90848 Linear Pre-Whitening Detector for Space-Time Block Codes over Time-Selective Fading Channels
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- 92827 Power Consumption Model for Linear RF Power Amplifiers with Rectangular M-QAM Modulation
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- 96926 A Detect-And-Avoid Method for Single-Carrier UWB Systems
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- 21373 On Improving Perceived User Throughput in Heterogeneous HSPA, GERAN and WLAN Scenarios
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- 44654 QoS-CROMA: An On-Demand Time-Slotted MAC Protocol with QoS Support for Wireless Ad Hoc Networks
Floriano De Rango, Annalisa Perrotta, Salvatore Marano, University of Calabria
- 53230 Performance Analysis of Location-Based Loading Control for Downlink FH-OFDMA Systems
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- 59647 Multipath Routing Using Isochronous Medium Access Control with Multi Wakeup Period for Wireless Sensor Networks
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- 65415 Tracking a Mobile Target with a Selected Pair of Sensors
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- 76172 Unnecessary Competition in Multi-Hop Wireless Networks
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- 79933 Multiple-Access Relay Channel with Network Coding and Non-Ideal Source-Relay Channels
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- 80036 Supervisory and Notification Aggregator Service Enabler in a Fixed Mobile Convergent Architecture
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- 86414 MDRP: A Content-Aware Data Exchange Protocol for Mobile Ad Hoc Networks
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- 95642 A Smart Antenna Module Using OMNeT++ for Wireless Sensor Network Simulation
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Tero Jokela, Eero Lehtonen, University of Turku
- 64521 Error Correction and Concealment for JPEG 2000 Video Transmitted over Wireless Networks
Giuseppe Baruffa, Paolo Micanti, Fabrizio Frescura, University of Perugia
- 44372 Performance Comparison of Space-Time Coded MIMO-OFDM Systems Using Different Wideband MIMO Channel Models
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- 89862 Blind Adaptive Constrained Reduced-Rank Estimation Algorithms for Constant Modulus Signals Applied to CDMA Interference Suppression
Rodrigo de Lamare, University of York; Raimundo Sampaio-Neto, PUC-RIO; Martin Haardt, TU Ilmenau
- 76066 Iterative Joint Channel Estimation and Multiuser Detection for Wireless MIMO-OFDM Systems: Performance in a Real Indoor Scenario
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- 83055 On the Impact of the Pilot Density in the Channel Estimation of MC-CDMA Systems
Carlos Ribeiro, Polytechnic Institute of Leiria; Atilio Gameiro, Instituto de Telecomunicações / University of Aveiro
- 10864 EMOS Platform: Real-Time Capacity Estimation of MIMO Channels in the UMTS- TDD Band
Raul de Lacerda, Leonardo Sampaio, Raymond Knopp, David Gesbert, Mérouane Debbah, Institut Eurecom
- 24380 Novel Joint Blind Channel and Carrier Offset Estimation Method for CDMA Systems
Dimitris Vlachos, National Technical University of Athens; Sivos Stamatis, University of Athens, Greece; M. G. Hadjinicolaou, School of Engineering and Design, Brunel University
- 55027 A MIMO Mobile-To-Mobile Channel Model Derived from a Geometric Street Scattering Model
Ali Chelli, Matthias Pätzold, Agder University College
- 99847 Terrain and Clutter Impact on Joint Statistical Properties of Azimuth Spread and Delay Spread in Macro-Cell Bad Urban Environment
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- 18014 Strategies for Effective Frequency Allocations for Satellite Communications
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- 21610 Habitual Behavior-Based Opportunistic Data Forwarding in Wildlife Tracking
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- 39382 On Optimal Slot Allocation for Reservation TDMA MAC Protocol in Shadow Fading Environment
James Gadze, Niki Pissinou, Garth Crosby, Florida International University
- 81168 A Fair Scheduling Algorithm to Improve Stability Region with Zero-Forcing Beamforming for a Multiuser MIMO Wireless Systems
Augusto Foronda, Chikara Ohta, Hisashi Tamaki, Kobe University
- 58871 A Predictive Scheduler for FDD Systems Based on the Windowed Empirical CDF
Stefano Sorrentino, Nokia Siemens Networks S.p.A.; Umberto Spagnolini, Politecnico di Milano
- 77249 Enhancement of MBMS Through Macro Diversity Schemes in a Microcell Environment
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- 94214 Throughput Performance of Two-Way Relaying in IEEE 802.11 Networks
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- 96396 Evaluation of Uplink Performance for WiMAX Broadband System Using High Altitude Platforms
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- 72588 Analysis of Cross-Layer Optimization Between Application and Link Layer
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