IEEE

IEEE COMMUNICATIONS SOCIETY

University of Siena
Via Banchi di Sotto, 55 - Siena - Italy

2nd International Symposium on Wireless Communications Systems 2005 (ISWCS 2005)

Siena, Via Banchi di Sotto, 55,

September 5-7, 2005

Plan of Technical Sessions for the Preliminary Programme

10:30AM - 12:15PM - MIMO

Room: Aula Magna Storica

Achievable Rate Region of Multiple Access with Linearly Precoded Parallel Block-Fading MIMO Channels

Milan Knize, Jan Sykora (Czech Technical University in Prague)

A Threshold-Based Adaptive Encoding for Achieving the Diversity-Multiplexing Tradeoff

Zouheir Rezki (École Polytechnique de Montréal), David Haccoun (Ecole Polytechnique de Montréal), Francois Gagnon (Ecole de Technologie Superieure)

Suboptimal Decoders for Coded Multiple-Input Multiple-Output Systems

Pansop Kim, Keith Chugg (University of Southern California)

Performance Evaluation of the V-BLAST Coset Detector

Maurizio Magarini (Politecnico di Milano), Arnaldo Spalvieri (Politecnic of Milan)

Joint Estimation of Channel Parameters for MIMO Communication Systems

Ji Li (École Polytechnique de Montréal)

Minimum Symbol Error Rate Transmitter and Receiver FIR MIMO Filters for Multilevel PSK Signaling

Are Hjørungnes (Unversity of Oslo)

Comparaison of coherent and non-coherent space time schemes for frequency selective fast-varying channels

Benoît LE SAUX (France Telecom R&D), Maryline Hélard (France Telecom R&D, DMR/DDH), Pierre-jean Bouvet (France Telecom R&D)

10:30AM - 12:15PM - UMTS

Room: Aula Magna

On the Impact of Multimode Terminals in Heterogeneous Wireless Access Networks

Xavier Gelabert (Universitat Politècnica de Catalunya (UPC)), Jordi Perez-Romero (Universitat Politécnica de Catalunya), Oriol Sallent, Ramon Agusti (Universitat Politècnica de Catalunya)

Performance Study on the Effects of Cell-Breathing in WCDMA

Kay Leong Thng (National University of Singapore), Boon Sain Yeo, Yong Huat Chew (Institute for Infocomm Research)

Cell Reselection Parameter Optimization in UMTS

Dino Flore (Qualcomm Inc.), Christopher Brunner, Francesco Grilli (QUALCOMM INC.), Vieri Vanghi (QUALCOMM Inc.)

Statistical Properties of Fading Processes in WCDMA Systems

Marc Necker (University of Stuttgart)

Hybrid ARQ Transmission for Multiple-Input Multiple-Output Systems

Mikael Gidlund (Royal Institute of Technology)

Performance Analysis of a Type-II Hybrid-ARQ in a TDMA System with Correlated Arrival over a Non-Stationary Channel

Jun Bae Seo (Electronics and Telecommunication Research Institute), Yong Seouk Choi, Seung-Que Lee, Nam-Hoon Park (ETRI), Hyong Woo Lee (Korea University)

On the Statistics of Delay Terms in SR ARQ on Markov Channels

Leonardo Badia, Michele Rossi (University of Ferrara), Michele Zorzi (Università degli Studi di Padova)

10:30AM - 12:15PM - Issues in Wireless Networks

Room: Sala del Consiglio

VTBM a Novel Distributed MAC Approach for Wireless Networks

Tamás Radvánszki (Budapest University of Technology and Economics), Sándor Imre (Technical University of Budapest)

Gaps in Wireless Ad-hoc Lattice Computers

Philippe Moore, Anil Shende (Roanoke College)
Performance Evaluation of Movement Detection in MIPv6
Giuseppe De Marco (University of Salerno), Leonard Barolli (Fukuoka Institure of Technology), Maurizio Longo (Salerno University), Salvatore Loreto (University of Napoli, Federico II)

Designing & Verifying Secure Protocols of the Digital Marketplace

Swee Goo, James Irvine (University of Strathclyde), Allan Tomlinson, Scarlet Schwiderski-Grosche (Royal Holloway, University of London)

Efficiently Managing Location Information with Privacy Requirements in Wi-Fi Networks: a Middleware Approach

Paolo Bellavista (Università degli Studi di Bologna), A. Corradi (Univ of Bologne), Carlo Giannelli (DEIS - University of Bologna)

Strong Mobile Authentication

Marko Hassinen, Konstantin Hyppönen (University of Kuopio)

XML Compression Stack For Wireless Networks

Marius Roets (University of Pretoria)

1:30PM - 3:15PM - Equalization

Room: Aula Magna Storica

Pre-equalization techniques for MC-CDMA systems without cyclic prefix
Federico Boccardi, Nevio Benvenuto, Paola Bisaglia (University of Padova)

Enhancing Data efficiency in IEEE802.11a using Equalization
Vijay Kumar Chakka (Dhirubhai Ambani Institute of Information and communication Technology)

Doubly Iterative MMSE Equalization of Binary Continuous Phase Modulation
Baris Ozgul, Mutlu Koca, Hakan Delic (Bogazici University)

Frequency Hopping 16-QAM LMMSE Turbo Equalizer with Trellis Coded Modulation Precoder
Asgeir Nysaeter (UniK -University Graduate Center), Roald Otnes (Norwegian Defence Research Establishment (FFI))

Low-Complexity MMSE Turbo Equalization with Successive Interference Cancellation for MIMO-ISI Channels
Tarik Ait Idir (ENST Bretagne), Samir Saoudi (ENST-Bretagne)

Block Processing Engine for High-Throughput Wireless Communications
Daniele Lo Iacono, Julien Zory, Ettore Messina, Nicolo Piazzese (STMicroelectronics)

1:30PM - 3:15PM - Routing in Ad-Hoc Networks

Room: Aula Magna

SiFT: An efficient method for Trajectory Based Forwarding
Antonio Capone (Politecnico di Milano), Miguel Angel Garcia De La Fuente (ROBOTIKER - TECNALIA), Luca Pizziniaco (Politecnico di Milano)

Hybrid Landmark Routing in Ad Hoc Networks with Heterogeneous Group Mobility
Yeng-Zhong Lee (University of California at Los Angeles), Kaixin Xu (UCLA), Xiaoyan Hong (University of Alabama), Mario Gerla (University of California at Los Angeles)

E-ODMRP: Enhanced ODMRP with Motion Adaptive Refresh
Soon Oh, Joon-Sang Park (University of California, Los Angeles), Mario Gerla (University of California at Los Angeles)

OLSR Routing Protocol Tested Through Emulation
Alessandra Giovanardi, Gianluca Mazzini (University of Ferrara)
Multi-Meshed Tree Routing for Internet MANETs
Nirmala Shenoy (Rochester Institute of Technology)

1:30PM - 3:15PM - Wireless Video

Room: Sala del Consiglio

Finite-state Models for Simulating the DVB-H Link Layer Transport Stream Performance
Jussi Poikonen, Jarkko Paavola (University of Turku)

Scalable and Adaptive Multicast Video Streaming for Heterogenous and Mobile Users
Li Lao (UCLA), Jun-Hong Cui (University of Connecticut), Mario Gerla (University of California at Los Angeles)

Forward Information -- A General Approach for Scalable Audiovisual Service Delivery
Attila Takács (Budapest University of Technology and Economics)

An Error Protection Technique for the Wireless Transmission of Digital Cinema Streams
Fabrizio Frescura (University of Perugia), Andrea Betti, Michele Massarelli (DIEI, University of Perugia), Giuseppe Baruffa (University of Perugia)

Utilizing Perceptual Image Quality Metrics for Link Adaptation Based on Region of Interest
Tubagus Maulana Kusuma (Western Australian Telecommunications Research Institute (WATRI)), Manora Caldera (WATRI), Hans-Juergen Zepernick (Blekinge Institute of Technology)

Audiovisual Quality Estimation for Mobile Streaming Services
Michal Ries (Vienna University of Technology), Olivia Nemethova (Technical University Vienna)

3:45PM - 5:30PM - Performance Evaluation in Fading Channels

Room: Aula Magna Storica

The N*Nakagami Fading Channel Model
George Karagiannidis (Aristotle University of Thessaloniki), Nikos Sagias (University of Athens), Mathiopoulos Panayiotis (Institute for Space Applications & Remote Sensing)

Error Rate Performance of BPSK Diversity Systems in the Presence of Intersymbol Interference and Carrier Phase Error
Mahmoud Smadi (University of Texas at Arlington)

A low-complexity DQPSK detection algorithm for fading channel
Gianluigi Ferrari, Michele Franceschini, Massimiliano Bellini, Riccardo Raheli (University of Parma)

Performance of Rotated Phase Shift Keying Modulation over Ricean Fading Channels
Serdar Ozyurt (Gebze Institute of Technology), Oguz Kucur (Gebze Yüksek Teknoloji Enstitüsü), Ibrahim Altunbas (Istanbul Technical University)

A New Partial-Band Noise Jamming Model for Frequency-Hopped MFSK Systems
Jhih-Jhong Liang (Chung Yuan Christian University), Li-Der Jeng (Department of Electronic Engineering, Chung Yuan Christian University), Chung-Hsuan Wang (National Chiao Tung University)

A Channel Model of Optical Wireless Communications during Rainfall
Naoyuki Araki (Tokyo University of Sience), Hiroyuki Yashima (Tokyo University of Science)

3:45PM - 5:30PM - 3G and Beyond

Room: Aula Magna

Innovative Services and Architectures for 4G Wireless Mobile Communication Systems
Simone Frattasi (University of Aalborg), Mauro De Sanctis (University of Rome "Tor Vergata"), Rasmus Olsen, Frank H.P. Fitzek, Ramjee Prasad (Aalborg University)

Telecommunication Services Exchange Architecture for 3G and Beyond Mobile Communication Systems
Donna Griffin, Dirk Pesch (Cork Institute of Technology)

3G Wireless Core Network Dimensioning in the presence of Self Similar Traffic
Giovanni Giambene (University of Siena), Claudio Tommasi (Dipartimento di Ingegneria dell'Informazione, University of Siena)

QoS Monitoring for Professional Short-Message-Services in Mobile Networks
Guido Bruck (Universität Duisburg-Essen, Kommunikationstechnik), Peter Jung (Universität Duisburg-Essen)

Parameter Selection of HSDPA Flow Control
Marc Necker (University of Stuttgart), Andreas Weber (Alcatel)

Providing Fairness and Minimum Throughput Guarantees for HSDPA Users
Nidal Nasser (University of Guelph), Bader Al-Manthari (Queen's University), Hossam Hassanein (Queens University)

3:45PM - 5:30PM - Wideband Receivers and UWB

Room: Sala del Consiglio

Early-Stopping for RAKE Receivers
Sung-Chul Han, Rohit Negi (Carnegie Mellon University)

On the Timing Placement in the G-Rake Detector
Nicolo Piazzese (STMicroelectronics), Giuseppe Avellone (STmicroelectronics), Ettore Messina (STMicroelectronics)
Ultrawideband (UWB) RF Signal Source
Ulrich Rohde (Synergy Microwave Corp.), Ajay Poddar (Synergy Microwave Corporation)

On the Inter-Symbol-Interference in several UWB systems
Lorenzo Piazzo (Universita' di Roma "La Sapienza"), Fabrizio Ameli (University of Rome)

Space-Time Orthogonal M-ary PPM (STOMP) Coding for Coverage Extension of UWB-IR Systems
Enzo Baccarelli (University of Rome ""La Sapienza""), Mauro Biagi, Cristian Pelizzoni (University of Rome "La Sapienza"), Nicola Cordeschi (Infocom Dept. University of Rome "La Sapienza"), Fabio Garzia (ICMMPM Dept. University of Rome "La Sapienza")

Synchronization Using an Adaptive Early-Late Algorithm for IR-TH-UWB Transmission in Multipath Scenarios
Faten Salem (ENST Bretagne)

UWB Spatial Multiplexing by Multiple Antennas and RAKE Decorrelation
Van Phuong Tran (ENSTA/UEI), Alain Sibille (ENSTA)

Room: Aula Magna and related corridor

Terminal-Controlled Access Network Selection in Heterogeneous Networks
Artemis Koutsorodi, Evgenia Adamopoulou, Konstantinos Demestichas (National Technical University of Athens)

Interference Rejection and Equalization for DS/CDMA Multiuser Communication
Shin-Jang Chen (Chung Yuan Christian University), Li-Der Jeng (Department of Electronic Engineering, Chung Yuan Christian University), Chung-Hsuan Wang (National Chiao Tung University)

Preventing malicious nodes in ad hoc networks using reinforcement learning
Wipawee Usaha (Suranaree University of Technology)
A Peer-to-Peer Architecture for Mobile Communications
Eren Gonen (Motorola), Hua Xu (Motorola, Inc.), Pranav Joshi (Motorola)

An Admission Control Scheme for Opportunistic Scheduling
Mohammed Al Rawi, Riku Jantti (University of Vaasa)
Congestion Control in a Wireless ATM Network over a Markovian Channel
Jun Bae Seo (Electronics and Telecommunication Research Institute), Seung-Que Lee, Nam-Hoon Park (ETRI), Hyong Woo Lee (Korea University)

Performance of Channel Inversion Schemes for Multi-User OFDMA
Merouane Debbah (Institut Eurecom), Nicolas Bonneau (INRIA), Are Hjørungnes (Unversity of Oslo)

Analysis of Reed-Solomon Coding Combined with Cyclic Redundancy Check in DVB-H link layer
Heidi Joki, Jarkko Paavola, Valery Ipatov (University of Turku)

On the QoS-capable transport in the IP-based UTRAN}
Abed Ellatif Samhat (Institut National des Telecommunications), Tijani Chahed (Institut National des Télécommunications)

Improved Robust Multiuser Detection in Flat Fading Asynchronous Non-Gaussian Channels
Tipparti Kumar (Kakatiya Institute of Technology and Science)

Performance Evaluation of MANETs Using Smart Antennas in Multipath Fading Environment
Fulvio Babich, Massimiliano Comisso, Marco D'Orlando, Lucio Mania (University of Trieste)
Single Antenna Interference Cancellation for GSM by Enhanced Maximum SNR Filter
Luigi Mattellini (Nokia Technology Platform)

Analisys and Performance Evaluation of Wireless Lan Handover
Maria Stella Iacobucci (TILS), Giuliano Paris, Gabriella Zitti, Dante Simboli (Telecom Italia Learning Services)

Transmission Power Measurements for Wireless Sensor Network Devices and their Implications on Power Saving Algorithms
Sebastiaan Blom (University of Twente), Carlo Bellettini, Anna Sinigalliesi, Luca Stabellini, Michele Rossi, Gianluca Mazzini (University of Ferrara)

The Performance Comparison between HSDPA and WiBro
Simon Shin (SK Telecom)

Compact and Dual Band Diversity Antenna for Mobile Handsets
Ali Khaleghi (Electromagnetics Department)

Directional Time-based Location Management Method in PCS Networks
Saeed Masajedian (Iran Telecommunication Research Center)

A Novel Approach to Track Mobile Hosts in Cellular IP Networks
Saeed Masajedian (Iran Telecommunication Research Center)

DASCA: A Degree and Size based Clustering Approach for Wireless Sensor Networks
Gayathri Venkataraman, Sabu Emmanuel, Srikanthan Thambipillai (Nanyang Technological University)

Study on MIMO System Capacity of Low-Rank Channel Based on Antennas Selection
Yu Zhi (Beijing University of Posts and Telecommunications)

Algebraic Relationship between Amicable Orthogonal Design and Quasi-Orthogonal STBC with Minimum Decoding Complexity
Chau Yuen, Yong Guan (Nanyang Technological University), Tjeng Thiang Tjhung (Institute for Infocomm Research)

Space Diversity Schemes for STBC based SC-FDE Systems and SC-Pre-FDE Systems
Xin Xu, Yueming Cai (Nanjing Institute of Communications Engineering)

MoViTo: a Generic Visualization Tool for Mobility Analysis
Fares Benayoune (France Telecom R&D), Luigi Lancieri (France Telecom)

An innovative approach to E-government geo-based services on packet-switched mobile networks
Giuliano Benelli (Dipartimento di Ingegneria dell'Informazione, University of Siena), Bernardo Marzucchi, Igor Piroli, Giovanni Pratelli (University of Siena)

UWB Transmissions : A New Efficient Pulse Shape and the Corresponding Simple Transceiver
Balwant Godara (Université Bordeaux 1), Guillaume Blamon (ENSEIRB), Alain Fabre (Université Bordeaux 1)

A Fast Hopping Frequency Synthesizer for UWB Systems in a CMOS Technology
Hyunsu Chae, Eun-Chul Park, Choong-Yul Cha, Jung-Eun Lee, Chun-Deok Suh, Jeongwook Koh, Hanseung Lee, Hoon-Tae Kim (Samsung Advanced Institute of Technology)

Controlling TCP Fairness in WLAN access networks using a Rate Limiter approach
Nicola Blefari-Melazzi (University of Roma Tor Vergata (Italy)), Andrea Detti, Alessandro Ordine, Stefano Salsano (University of Rome "Tor Vergata")

A Compact and Broadband Diversity Antenna for Wireless LAN Applications

Ali Khaleghi (Electromagnetics Department)

Performance Analysis of Multiuser TH-PPM UWB System and Its Coded Scheme
Zhiquan Bai (Inha University)

Simplified Model of the Channel Estimation Error in UMTS Link Level Simulations
José Monserrat del Río (Polytechnic University of Valencia), Lorenzo Rubio (Universidad Politecnica de Valencia), Oscar Lázaro (Universidad Politécnica de Valencia)

Towards UWB Self-Positioning Systems for Indoor Environments Based on Electric Field Polarization, Signal Strength and Multiple Antennas- Part A
Amr Eltaher (University of Duisburg-Essen-)
Performance of Heterogeneous Traffic in Roaming Based Sharing Multi Operator 4G WCDMA Networks
Yaser Al-Jarbou (King Fahd University of Petroleum and Minerals), Uthman Baroudi (King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia)

Derivation of the Transmission Power Optimizing the Lifetime of a Sensor Network: an Analytical Approach
Mario Barbera (University of Catania), Salvatore Incardona (DIIT - University of Catania), Giovanni Schembra (University of Catania)

Distortionless PAPR reduction method for exsisting OFDM systems
Masato Saito, Akihiro Okuda, Minoru Okada, Heiicni Yamamo (Nara Institute of Science and Technology)
Preliminary results on measuring SSL-based secure data transfer in Personal Area Networks over IrDA channels
Diana Berbecaru (Politecnico di Torino)

Providing VHE features to a multi-purpose secure service platform
Alessandro Andreadis, Giuliano Benelli, Giovanni Luca Daino (Dipartimento di Ingegneria dell'Informazione, University of Siena)

1:30PM - 3:15PM - Coding Techniques

Room: Aula Magna Storica

Complex Linear STBC with Multiple Rates
Pansop Kim, Keith Chugg (University of Southern California)

A new hybrid beamforming/space-time block coding technique for moving source
Sun-Hee Hwang (Gwangju Institue of Science and Technology), Kiseon Kim (KJIST), Dongsoo Har (GIST)

Space-Time Coding for Wireless Channels with Multitone Jammers
Hung-shien Lin (Chung Yuan Christian University), Chung-Hsuan Wang (National Chiao Tung University), Li-Der Jeng (Department of Electronic Engineering, Chung Yuan Christian University)

APP Decoding of Binary Linear Block Codes on Gilbert-Elliott Channels
Hans-Juergen Zepernick (Blekinge Institute of Technology), Wayne Griffiths, Manora Caldera (WATRI)
Hardware Aware eIRA LDPC Code Generation
Jesús Pérez, Víctor Fernández (University of Cantabria)

Synchronous CDMA based on cyclical translations of a CAZAC sequence
Arnaldo Spalvieri (Politecnic of Milan)

Array Processors for Viterbi Decoder
Appaya Devaraj Swaminathan, Nastooh Avessta (University of Turku)

1:30PM - 3:15PM - Radio Resource Management

Room: Aula Magna

Multiuser Scheduling with Multi Radio Access Selection
Riccardo Veronesi (University of Ferrara)

Effect of Shadowing Correlation Modeling on the System Level Performance of Adaptive Radio Resource Management Techniques
José Monserrat del Río (Polytechnic University of Valencia), Javier Gozalvez (Universidad Miguel Hernandez), Rubén Fraile Muñoz (Polytechnic University of Valencia), Narcis Cardona (Universidad Politecnica Valencia)

Performance of Joint Power Control and Beamforming in WCDMA considering real Multiple Access Interferences
Carmen Botella (Universidad Politécnica de Valencia), Gema Piñero, Alberto Gonzalez (Universidad Politecnica de Valencia), María De Diego (Universidad Politécnica de Valencia), Narcis Cardona (Universidad Politecnica Valencia)

Joint SNR target and Rate Adaptation Based on Bit Error Rate Estimation
Lay Ong (King's College London), Mohammad Shikh-Bahaei (Kings college London)

An Efficient Multiple Access Scheme for Dynamic Subband Allocation in OFDMA System
Jianfeng Qiang (Beijing University of Posts and Telecommunications), Hiroshi HARADA (National Institute of Information & Communications Technology), Ping Zhang (BUPT)

Greedy algorithm for dynamic resource allocation in downlink of OFDMA system
Sameh Najeh (Institut Supérieur d'Informatique et des techniques de communication), Hichem Besbes (Ecole Superieure de Communications de Tunis, Sup'Com TUNISIA), Ammar Bouallegue (SysCom Lab, ENIT)

A Novel Tri-angle Cellular Architecture Based on OFDMA and Related Interference Resolving Algorithm
Peter Zhu (Beijing University of Post and Telecommunications)

1:30PM - 3:15PM - Wireless Sensor Networks

Room: Sala del Consiglio

Multicarrier MIMO in Arrayed Wireless Sensor Networks
Georgios Elissaios, Athanassios Manikas (Imperial College London)

Energy-efficient Multihop Communication with Coding and Node Cooperation in Wireless Sensor Networks
Velio Tralli (University of Ferrara - Italy)

Distance Estimation in Wireless Sensor Networks by means of Power and Error Measurements
Nicola Bui, Nicola Baldo, Andrea Odorizzi, Michele Rossi (University of Ferrara), Michele Zorzi (Università degli Studi di Padova)

Collaborative Event Region Detection in Wireless Sensor Networks Using Markov Random Fields
Tsang-Yi Wang (National Chi Nan University)
The Probability Distribution of the Carrier-to-Interference Ratio (CIR) of a CSMA/CA Ad Hoc Multi-Hop Wireless Network
Sajjad Qasmi, Kainam Thomas Wong (University of Waterloo)

A Cross-layer Approach to Enhance TCP Fairness in Wireless Ad-hoc Networks
Gennaro Boggia, Pietro Camarda, Luigi Grieco (Politecnico di Bari), Tommaso Mastrocristino, Girolamo Tesoriere (DEE - Politecnico di Bari - Italy)

Quality of Service Management for MANETs connected to the Internet
Andreas J. Kassler (Karlstad University), ShanShan Chen (NTU)

3:45PM - 5:30PM - OFDM and Synchronization

Room: Aula Magna Storica

A Novel Wireless Filter Bank OFDMA Systems
Jianfeng Qiang (Beijing University of Posts and Telecommunications), Hiroshi HARADA (National Institute of Information & Communications Technology), Ping Zhang (BUPT)

Inter-symbol Interference Suppression employing Sub-carrier Group Selection for OFDM-TDD Transmit Diversity
Fumiaki Maehara, Takeshi Ikenaga, Fumio Takahata, Satoshi Goto (Waseda University)

A Two-Stage Direct Symbol Recovery Method for Zero Padding OFDM System
Huang He, Hongxing Zou, Yuhang Wang (Tsinghua University)

Non-Linear Detection for Joint Space-Frequency Block Coding and Spatial Multiplexing in OFDM-MIMO Systems
Muhammad Imadur Rahman, Nicola Marchetti, Frank H.P. Fitzek (Aalborg University), Ramjee Prasad (Center for TeleInFrastruktur (CTiF), Aalborg University, Denmark)

On optimum linear beamforming strategies for downlink TDD MC-CDMA systems
Federico Boccardi, Paola Bisaglia, Nevio Benvenuto (University of Padova)

Channel Estimation for BFDM/OQAM System with Dispersive Time-Varying Channels
Bayarpurev Mongol, Hiraku Okada, Takaya Yamazato, Masaaki Katayama (Nagoya University)
Low-Complexity Iterative Frame Synchronization
Ayman Abdel-Samad (MIMOS Berhad)

Iterative Synchronization for Multiuser Filtered Multitone Systems
Andrea Tonello, Francesco Pecile (University of Udine)

3:45PM - 5:30PM - WLAN and Bluetooth

Room: Aula Magna

Soft Handovers over 802.11b with Multiple Interfaces
Emil Ivov (Louis Pasteur University), Thomas Noel (Louis Pasteur University, Strasbourg)

Improving TCP Throughput in 802.11 WLANs with High Delay Variability
Georgios Fotiadis (University of Crete), Vasilios Siris (Institute of Computer Science, FORTH / University of Crete)

WIFE: WiFi Architecture for Ferrara Campus
Chiara Taddia, Gianluca Mazzini, Enrico Ardizzoni (University of Ferrara)

A Dual Authentication Protocol for IEEE 802.11 Wireless LANs
Xinliang Zheng, Chuming Chen, Chin-Tser Huang, Manton Matthews, Naveen Kumar Santhapuri (University of South Carolina)

Modeling Packet Collision Probability in Personal Area Networks over Bluetooth
Jose Valenzuela (Universitat Politecnica de Catalunya), Angela Hernández-Solana, Antonio Valdovinos (University of Zaragoza)
Rapid Refinable SDR Design
Petri Isomäki, Nastooh Avessta (University of Turku)

3:45PM - 5:30PM - Antennas and Transmitters

Room: Sala del Consiglio

Employing Directional Antennas in Double-Directional Radio Channel
Chen Sun (ATR, Wave Engineering Laboratories), Thomas Hunziker (Advanced Telecommunications Research Institute International (ATR)), Makoto Taromaru (ATR Wave Engineering Laboratories)

Analytical Approach for MIMO Performance and Electromagnetic Coupling in Linear Dipole Arrays
Oliver Klemp, Hermann Eul (University of Hannover)

Performance Analysis of a Multiple Antenna Concatenated DMT-FMT Scheme in the Uplink
Andrea Tonello (University of Udine)

Design and Hardware Implementation of A Novel Smart Antenna Algorithm Using TI DSPs
Kerem Kucuk, Mustafa Karakoc (Kocaeli University, Electronics-Computer Ed. Dept.), Adnan Kavak (Kocaeli University)

Dual-Frequency Ring Patch Antennas for GPS
Shoichi Kumagai, Yasuhiro Kazama (Japan Radio Co., Ltd.), Naohisa Goto (Takushoku University)

Nonlinear Distortion Cancellation in a LINC Transmitter using Genetic Algorithms
Paloma Garcia, Jesús de Mingo, Antonio Valdovinos (University of Zaragoza)

A Pattern Diversity Antenna with Parasitic Switching Elements for Wireless LAN Communications
Ali Khaleghi (Electromagnetics Department)