## 2011 IEEE 22nd International Symposium on Personal, Indoor and Mobile Radio Communications Program

### Sunday, September 11

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<tr>
<th>Time</th>
<th>Frontenac</th>
<th>Harbour A</th>
<th>Harbour B</th>
<th>Harbour C</th>
<th>Marine</th>
<th>Pier 2</th>
<th>Pier 3</th>
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<tr>
<td>09:00</td>
<td>Workshop 4-1: International Workshop on Wireless Distributed Networks (Sensing)</td>
<td>Workshop 3-1: W-Green 1: The 'Key' to Next Generation of Mobile Radio Access and Networks Technologies</td>
<td>Tutorial 1: Interference Management in Femtocell Networks</td>
<td>Tutorial 2: Interference Alignment: A New Look at Signal Dimensions in Interference Networks</td>
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<td>15:30</td>
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<td>16:00</td>
<td>Welcome Reception</td>
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### Monday, September 12

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<th>Time</th>
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<tr>
<td>08:30</td>
<td>PL-1: Conference Opening and Plenary Talks - David Belanger and Victor Bahl</td>
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<td>10:00</td>
<td>Panel 1: Femtocells &amp; WiFi: Towards Cost efficient Ubiquitous Broadband Lunch: Will be served in Frontenac</td>
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<td>12:00</td>
<td>Keynote 1: P. R. Kumar (University of Illinois, Urbana-Champaign)</td>
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<td>13:30</td>
<td>Keynote 2: Ted Rappaport (University of Texas at Austin)</td>
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<td>14:15</td>
<td>Panel 2: Standardization, Technology, and Channel Modeling</td>
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Challenge For Body Area Network

Estimation and Equalization - I
Sharing and Allocation Systems

Appl & Sen

Machine to Machine Communications: Trends, Challenges, Design Principles and Research Directions

Applications & Services

16:00

Coffee Break

WWRF Special Session 1: Machine to Machine Communications: Trends, Challenges, Design Principles and Research Directions

Tuesday, September 13

PL-2: Plenary Talks - Henri Tirri and Wen Tong

10:00

Panel 3: Which will be the Winning Technologies for the Networks of the Future?

WACC-08: Diversity Techniques - I
WACC-09: Cross Layer Design - I
WACC-10: Energy Efficient Design
CRSM-6: Interference Management

SL-3: RSS-Based Localization Methods

16:30

WACC-08: Diversity Techniques - I
WACC-09: Cross Layer Design - I
WACC-10: Energy Efficient Design
CRSM-6: Interference Management
WACC-11: Smart Antenna Systems

SL-3: RSS-Based Localization Methods

Tuesday, September 13

Panel 3: Which will be the Winning Technologies for the Networks of the Future?

WACC-12: Cooperative Communications - I
WACC-13: Radio resource management - II
WACC-14: OFDM - II
CRSM-8: Radio Resource Allocation and Management

WACC-11: Smart Antenna Systems

16:30

WACC-08: Diversity Techniques - I
WACC-09: Cross Layer Design - I
WACC-10: Energy Efficient Design
CRSM-6: Interference Management
WACC-11: Smart Antenna Systems

SL-3: RSS-Based Localization Methods

Wednesday, September 14

PL-3: Plenary Talks - Jalal Matar and Ruiji Kohno

10:00

Panel 5: How to make Mobile Cellular Communications even Greener?

WACC-16: Channel Modeling, Estimation and Equalization - II
WACC-17: Relay Assisted Communications - II
WACC-18: MIMO Techniques - II
CRSM-8: Radio Resource Allocation and Management

WACC-11: Smart Antenna Systems

16:30

WACC-20: Diversity Techniques - II
WACC-21: Cross Layer Design - II
WACC-22: Multiple Access Techniques - I
CRSM-12: Opportunistic Spectrum Access

ITN-2: Field Operational Tests, Applications, Intelligent Transportation Systems

SL-6: Secrecy Capacity of Wireless Communications

WACC-28: Routing and Scheduling - II

AID-8: MAC and Higher Layer Communications

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Sunday, September 11

09:00 - 10:30
Tutorial 1: Interference Management in Femtocell Networks
Presenters: Ekram Hossain, Long Bao Le

Tutorial 3: Localization and Communication - Theory, Algorithms and Benefits of Localization in Wireless Networks
Presenters: Giuseppe Abreu, Giuseppe Destino, Davide Macagnano

Workshop 3-1: W-Green 1: The ‘Key’ to Next Generation of Mobile Radio Access and Networks Technologies

Invited Speaker Session

Workshop 4-1: International Workshop on Wireless Distributed Networks (Sensing)

New Vision for the World of Wireless Communications Enabled with Cognition
S. Haykin

Cyclostationary spectrum sensing under four-level hypothesis for spectrum sharing
K. Umebayashi, J. Lehtomäki, S. Hatakeyama and Y. Suzuki

Spectrum Metrics for 2.4 GHz ISM Band Cognitive Radio Applications
S. Hanna and J. Sydor

10:30 - 11:00
Coffee Break

11:00 - 12:30
Tutorial 1: Interference Management in Femtocell Networks
Presenters: Ekram Hossain, and Long Bao Le

Tutorial 3: Localization and Communication - Theory, Algorithms and Benefits of Localization in Wireless Networks
Presenters: Giuseppe Abreu, Giuseppe Destino, Davide Macagnano

Workshop 3-2: W-Green 2: The ‘Key’ to Next Generation of Mobile Radio Access and Networks Technologies

Opportunities for Energy Savings in Mobile Devices
P. Ljung

Energy-Aware Adaptive Sectorisation in LTE Systems
Y. Qi, M. A. Imran and R. Tafazolli

Trade-off between Energy Efficiency and Spectral Efficiency in the Uplink of a Linear Cellular System with Uniformly Distributed User Terminals
O. Onireti, F. Héliot and M. A. Imran

Power Saving Potential in Heterogeneous Cellular Mobile Networks
A. Vidíč and I. Góbor

Workshop 4-2: International Workshop on Wireless Distributed Networks (Network)

Two-Level Channel Coding for Cooperative Wireless Networks Based on WiMAX LDPC codes
R. Mones-Czarapata and N. D’Souza

Cross-Layer Designed Adaptive Packet Length Control for Wireless Networks
S. Mori, K. Ishii and S. Ogose

Distributed Self-Optimization for Efficient Reconfiguration in Overlapping Homogeneous Wireless Access Networks
D. Fan, X. Wang and P. Mi

Fundamental Study on Adaptive ACK Link Control for Downloading based on TCP Connection in Mobile Wireless Communication
O. Takyu, Y. Seki, T. Yamasaki, T. Fujii, Y. Umeda, X. Wang and S. Konishi

14:00 - 15:30
Tutorial 2: Interference Alignment: A New Look at Signal Dimensions in Interference Networks

Presenters: Syed Ali Jafar

Tutorial 4: Mobile Radio Channel Sounding, Data Analysis and Radio Channel Modelling

Presenters Robert Bultitude, Sana Salous


Presenters: Claudio da Silva, Marina Petrova

Workshop 2-1: ICT-ACROPOLIS Network of Excellence Workshop on "Cognitive Radio and Networking: Challenges and Solutions Ahead"

Spectrum Sensing in Cognitive Femto Base Stations Using Welch Periodogram
I. Harjula and A. Hekkala

Statistical Models of Spectrum Opportunities for Cognitive Radio
K. Arshad and K. Moessner

Multiband Time-of-Arrival positioning technique for Cognitive radio systems
R. Thomas, B. Zayen, R. Knopp and B. Maharaj

Scenario-based Regulatory Requirements for Cognitive Radio
M. Barrie, S. Delaere and P. Ballon

Optimal Resource Allocation in Multi-Relay Cognitive Networks Using Dual Decomposition
M. Shaaf and F. Bader

Workshop 3-3: W-Green 3: The ‘Key’ to Next Generation of Mobile Radio Access and Networks Technologies

Power Savings in Mobile Networks by Dynamic Base Station Sectorization
L. Hévizi and I. Gódor

Energy saving potential of integrated hardware and resource management solutions for wireless base stations
A. Ambrosy, O. Blume, H. Klessig and W. Wajda

Green Scheduling to minimize Base station Transmit power and UE circuit power consumption
R. Gupta and E. Calvanese Strinati

Minimal Average Consumption Downlink Base Station Power Control Strategy
H. Holtkamp, G. Auer and H. Haas

Workshop 4-3: International Workshop on Wireless Distributed Networks (Cooperation)

Vision for Beyond 4G Broadband Radio Systems

A Study on Beam Tilt Angle of Base Station Antennas for Base Station Cooperation Systems
D. Sugimura, M. Arai, K. Sakaguchi, K. Araki and T. Sotoyama

A Bit Interleaved Repetition Coded Base Station Cooperation for Downlink OFDM Signaling
B. Yuan, S. Ibi and S. Sampei

15:30 - 16:00
Coffee Break

16:00 - 17:30
Tutorial 2: Interference Alignment: A New Look at Signal Dimensions in Interference Networks

Presenter: Syed Ali Jafar

Tutorial 4: Mobile Radio Channel Sounding, Data Analysis and Radio Channel Modelling

Presenters Robert Bultitude, Sana Salous


Presenters: Claudio da Silva, Marina Petrova


High-Level Scenarios for the Future of Cognitive Radio Business
A. Medeisis and S. Delaere

Workshop 3-4: W-Green 4: The ‘Key’ to Next Generation of Mobile Radio Access and Networks Technologies

A panel discussion on the issues related to Green Communications

16:00 - 17:00
Workshop 4-4: International Workshop on Wireless Distributed Networks (Sensor Network)

Cooperative Transmission Scheme with Inactive Node Reactivation Condition for Solar-Powered Wireless Sensor Networks
K. Ota, K. Kobayashi, T. Yamazato and M. Katayama

Disjoint Trajectory in Wireless Sensor Networks with Two Mobile Sinks
Y. Kato and F. Ono

18:30 - 20:30
Welcome Reception

Monday, September 12

08:30 - 10:00
PL-1: Conference Opening and Plenary Talks - David Belanger and Victor Bahl

10:00 - 10:30
Coffee Break

10:30 - 12:00
AID-1: Femtocell Systems I

Network Listening based Synchronization techniques for Femtocell Systems
P. Amin and O. Tirkkonen

Facilitating Active Hand-in using Out-of-Band Link at Femtocell
S. Das, P. Tinnakornsrisuphap, D. Ott and S. Soliman

Throughput-Based Incentives for Residential Femtocells
R. Di Taranto and C. Rosenberg

Uplink Interference Management Techniques for 3G Femtocells
Y. Zhou, F. Meshkati, V. Makh, Y. Tokgoz and M. Yavuz

Utilizing Femtocells for Peer-to-Peer File Sharing in Cellular Networks
M. Macuha, Y. Y. Li and T. Sato

AID-2: Traffic Management/Resource Allocation

A Semantic Agglomerative Traffic Management Framework for Ubiquitous Public Safety Networks
N. Ahmed Surobhi, Y. Ma and A. Jamalipour

Resource Allocation Using Shapley Value in LTE
M. Iturralde, T. Ali Yahia, A. Wei and A. L. Beylot

Towards a Fair Non-convex Resource Allocation in Wireless Networks
G. Tychogiorgos, A. Gkelias and K. K. Leung

Adaptive Traffic Load-Balancing for Green Cellular Networks
L. Xiang, F. Pantano, R. Verdone, X. Ge and M. Chen

Transmission Power Adaptation According to the Message Length for Wireless Sensor Networks
D. Dessales

CRSM-1: Wideband Spectrum Sensing

Optimized Bases Compressive Spectrum Sensing for Wideband Cognitive Radio
M. Farrag, M. El-Khamy and M. El-Sharkawy

Optimal Wideband Spectrum Sensing Based on MTM with Adaptive Number of Sensors
L. Huang, Li Li, J. Zhang and J. Liu

Novel Spectrum Edge Detection Techniques in Wideband Spectrum Sensing of Cognitive Radio
Y. Miar and C. D’Amours

Reduced Complexity Multiband Multi-Sensor Spectrum Sensing
C. K. Liang and S. Biosten

Optimal Energy Tradeoff for Active Sensing in Cognitive Radio Networks
T. V. Nguyen, H. Shin, T. Q. S. Quek and M. Win

CRSM-2: Cooperative Spectrum Sensing

Convex Sensing-Reporting Optimization for Cooperative Spectrum Sensing
A. Noel and R. Schober

Performance Limitations for Cooperative Spectrum Sensing with Reporting Channel Errors
S. Chaudhuri, J. Lundén and V. Koivunen
Collaborative Channel Search in Cognitive Radio Networks
S. Fazeli Dehkordy, K. Plataniotis and S. Pasupathy

A Low Complexity Multi-Threshold Centralized Detection Strategy for Cooperative Spectrum Sensing
B. Abbasi Bastami and E. Saberinia

A Weighted Fusion Scheme for Cooperative Spectrum Sensing based on Past Decisions
L. Khalid and A. Anpalagan

LPAN-1: Physical Layer Design - 1

Throughput Sensitivity to Antenna Pattern and Orientation in 802.11n Networks
Di Kong, E. Mellios, D. Halls, A. Nix and G. Hilton

Performance of Energy Detection in NLOS Frequency-selective Fading Channels
M. Bober, R. Moorfeld and E. Jorswieck

Time and Frequency Synchronisation in Optical Wireless OFDM Networks
B. Ghiemire, I. Stefan, H. Elgala and H. Haas

Indoor-to-outdoor path-loss models for Femtocell predictions
Y. Corre, J. Stephan and Y. Lostanlen

Blind Estimation and Mitigation of Nonlinear Channels
J. Dohl and G. Fettweis

LPAN-2: Medium Access Control - 1

Improving Throughput of Wireless LANs with Transmit Power Control and Slotted Channel Access

Inter-cell Interference Management in OFDMA TDD Downlink Using Sounding/Silencing Protocol
M. Criery, C. Ribero, R. Wichman and O. Tirkkonen

Channel-aware ALOHA with SINR Capture: When Is the Knowledge of Channel Not Helpful?
F. T. Hsu and H. J. Su

IEEE 802.11ac: Enhancements for Very High Throughput WLANs
E. H. Ong, J. Kneckt, O. Alanen, Z. Chang, T. Huovinen and T. Nihtila

Asynchronous Receiver-Initiated MAC Protocol with the Stair-Like Sleep in Wireless Sensor Networks
T. Wada, I. T. Lin and I. Sasase

Panel 1: Femtocells & WiFi: Towards Cost efficient Ubiquitous Broadband
Organizer: Thierry Lestable, panelist: Emilio Mino Diaz, Prabhakar Chitrapu, Rahim Tafazolli, Matti Latva-aho, Nicolas Gresset,

SL-1: Wireless Communications Security

Preemption, Fairness, and Security Dynamics in Heterogeneous DSA Environments
S. Sodagari and T. C. Clancy

Catch the Jammer in Wireless Sensor Network
S. Yanqiang, R. Molva, M. Önen, X. Wang and X. Zhou

Secure Hybrid Digital-Analog Wyner-Ziv Coding
G. Bagherikaram and K. Plataniotis

On Optimal Artificial-Noise Assisted Secure Beamforming for the Fading Eavesdropper Channel

WACC-01: Cooperative Communications - I

Improving CoMP Cluster Feasibility by Dynamic Serving Base Station Reassignment
T. Biemann, L. Scalia, C. Choi, H. Karl and W. Kellerer

Dynamic Cell Clustering Design for Realistic Coordinated Multipoint Downlink Transmission
H. Sun, X. Zhang and W. Fang

Coordinated Multipoint Multuser-MIMO Transmissions over Backhaul-Constrained Mobile Access Networks
C. Choi, L. Scalia, T. Biemann and S. Mizuta

Decentralized Beam Coordination via Sum Rate Maximization in TDD Multi-cell MIMO Systems
P. Komulainen, A. Tölli and M. Juntti

Downlink Distributed Beamforming Through Relays with Imperfect CSI
Y. Zheng and S. Blostein

WACC-02: Radio Resource Management - I

Power Efficient Resource Allocation in Uplink SC-FDMA Systems
A. Ahmad and M. Assaad
Joint BS Selection and Subcarrier Assignment for Multicell Heterogeneous OFDM Unicasting
C. Liu, P. Wang, A. Schmenik and R. Mathar

Ecological Competition based Resource Control for Sustainable Heterogeneous Wireless Networks
M. F. Hossain, K. Munasinghe and A. Jamalipour

A Parallel Bit Removal Greedy Algorithm for Multiuser 4G OFDM-based Systems
M. Cordova and L. Van Biesen

RAT Selection for Multiple Calls in Heterogeneous Wireless Networks Using Modified TOPsis Group Decision Making Technique
D. Fallowo and H. A. Chan

WACC-03: OFDM - I

A New Digital Predistorter Linearizer
A. Lozhkin and M. Nakamura

On Spectral Efficiency of Asynchronous OFDM/FBMC based Cellular Networks
Y. Medjahdi, M. Terrê, D. Le Ruyet and D. Roviras

Blind frequency-dependent IQ imbalance compensation scheme using CMA for OFDM system
M. Matsui, T. Nakagawa, R. Kudo, K. Ishihara and M. Mizoguchi

On Spatial Data Multiplexing over Coded Filter-Bank Multicarrier with ML Detection
R. Zakaria and D. Le Ruyet

Multicarrier HF Communications with Amplify-and-Forward Relaying
M. Heidarpour and M. Uysal

WACC-04: Interference Management - I

Multi-objective Optimization for Intercell Interference Management in Advanced Multihop Cellular Networks
B. Lorenzo and S. Gligic

General Iterative Algorithm to Align Interference along Spatial Dimension
Y. Du and S. Liu

Iterative OFDM Receiver with Combined Interference Suppression and Cancellation
K. Fang and G. Auer

Single-Antenna Interference Cancellation for Complex-Valued Signal Constellations with Applications to GSM/EDGE
A. Lehmann, M. Ruder, W. Gerstacker and R. Schober

User Position Aware Multicell Beamforming for a Distributed Antenna System
T. Le and M. Nakhui

WNHC-1: WNHC – Channel Modeling & PHY I

Experimental Analysis of IEEE 802.15.4 for On/Off Body Communications (invited paper)
N. Amini, W. Xu, Z. Li, M. C. Huang and M. Sarrafzadeh

Raptor Codes in Wireless Body Area Networks
J. Abouei, S. Fazeli Dehkordy, K. Plataniotis and S. Pasupathy

Interference performance of IEEE 802.15.6 Impulse-Radio Ultra-Wideband Physical Layer
I. Dotlic

Reconfigurable Subsampling Receiver Architecture For Wireless Body Area Networks
D. Zhao

12:00 - 13:30
Lunch: Will be served in Frontenac

13:30 - 14:15
Keynote 1: P. R. Kumar (University of Illinois, Urbana-Champaign)

Keynote 2: Ted Rappaport (University of Texas at Austin)

14:15 - 14:30
Break

14:30 - 16:00
WWRF Special Session - Machine to machine communications: Trends, challenges, design principles, and research directions

Introduction to the session
A joint clustering and routing scheme to maximize link performance in cooperative MIMO ad-hoc networks
B. Zafar, S. Ghorenghi and M. Haardt

Energy Efficient AF Relaying under Error Performance Constraints with Application to M2M Networks
G. Elkheir, A. Lioumpas and A. Alexiou
Optimizing background-communication of mobile devices and sensors to drive end-user services
O. Droegehorn

AID-3: Autonomous Infrastructure Networks

A. Feki and V. Capdeville

Approaches to Enhancing Autonomous Power Control at Femto under Co-channel Deployment of Macrocell and Femtocell
T. Yang and Lu Zhang

Interference Mitigation through Self-Organization in OFDMA Femtocells
Y. S. Liang, W. H. Chung, Z. Hongke and S. Y. Kuo

Self-Optimized Preceding and Power Control in Cellular Networks
V. Garcia, C. S. Chen, N. Lebedev and J. M. Gorce

A Generalized Methodology for Frequency Reuse in Autonomous Cellular Networks
B. Golkar and E. Sousa

CRSM-3: Spectrum Sensing and Resource Allocation

Dynamic Resource Allocation for Cognitive OFDMA Networks based on "two witnesses rule" for Cooperative Spectrum Sensing
R. Bourouai and H. Besbes

Antenna Selection Based Spectrum Sensing for Cognitive Radio Networks
S. L. Wang, Y. Wang, J. Coon and A. Doufexi

Cross-Layer Design of Multi-user Opportunistic Spectrum Access with Cooperative Sensing
Lu Ye, Z. Zhang, H. Zhang and X. Ma

Cooperative Learning for Reduced Complexity Cross-Layer Cognitive Radio
A. Kwasinski and W. Wang

History-aware Channel Search Schemes in Cognitive Radio Networks
A. Azafar, J. F. Frigon and B. Sanso

CRSM-4: Spectrum Access, Sharing and Allocation

Joint Channel Allocation and User Association for Heterogeneous Wireless Cellular Networks
D. Fooladivanda, A. Daoud and C. Rosenberg

Identification of Spectrum Sharing Opportunities for a Finite Field Secondary Network through an Exact Outage Expression under Rayleigh Fading
A. Kahlto, S. Szyzlikowicz, S. Perijawar and H. Yanikomeroglu

Interference-Aware Dynamic Spectrum Access in Cognitive Radio Network
R. Mahapatra and E. Calvanese Strinati

Predictive Opportunistic Spectrum Access using Learning based Hidden Markov Models
H. Ahmad, Y. H. Chew, P. K. Tang and Y. Nijsure

Spectrum Trading for Non-Identical Channel Allocation in Cognitive Radio Networks
M. Nader Tehrani and M. Uysal

ITN-1: Networking

Speed Adaptive Probabilistic Flooding for Vehicular Ad-Hoc Networks
Y. Mylonas, M. Lestas, A. Pitsillides and P. Ioannou

Handshaking vs. Instant Broadcast in VANET Safety Message Routing
F. Khan, Y. Chang, S. J. Park and J. Copeland

Local Density Estimation for Contention Window Adaptation in Vehicular Networks
R. Stanica, E. Chaput and A. L. Beylot

Characterizing Broadcast Packet Losses in IEEE 802.11p/WAVE Vehicular Networks
C. Campoleti, Y. Koucheryavy, A. Molinaro and A. Vinel

On non-saturation regime in IEEE 802.11p based VANET with mobile nodes
S. Ozturk and J. Milic

LPAN-3: Hardware Design

Frequency-Domain Timing Synchronization for IEEE 802.11n Communications Systems
H. H. Peh, S. Sun, P. H. W. Fung and C. K. Ho

Energy Detection based Blind Synchronization for Pulse Shape Modulated IR-UWB Systems
R. Akbar, E. Radio and S. Azou

Wake-up Radio using IEEE 802.11 Frame Length Modulation for Radio-On-Demand Wireless LAN
A Low-Cost 2.45-GHz Frequency Synthesizer with Open-Loop Modulation for WPAN Applications
L. Zaid, J. Bouloc, A. Sangiovanni, F. Haddad, W. Rahajandraibe, V. Cheynet de Beaupré and R. Scalli

OFDM-UWB MIMO Transceiver Implementation in Realistic Fading Channels
M. AlJerjawi, Y. Xu, R. Bossio and C. Nerguizian

LPAN-4: Relaying and Cooperative Communication - I

Performance Analysis of a Cooperative MAC
D. T. C. Wong, A. T. Hoang, Y. C. Liang and F. Chin

Cooperative Communication Design with Distributed Code Allocation in a Clustered Network
X. He and F. Li

Investigations on the Effects of Co-channel Interference on Dual-Hop Transmission in Nakagami-m Fading
S. Ikki and S. Alissa

Cooperative MS-Grouping Schemes Based on Three Cost Metrics for Improving Battery Lifetime and Energy Efficiency
H. Leem, B. H. Jurg and D. K. Sung

A low-complexity power allocation for cooperative bit-interleaved coded modulation systems with adaptive decode-and-forward relaying

Panel 2: Standardization, Technology, and Challenge For Body Area Network
Chair: Huan-Bang Li, Panelists: David Davenport, Arthur Astrin, Anuj Batra, Leif Hanlen,

SL-2: TOA-Based Localization Systems

Fast and Accurate Tracking in Wireless Networks
M. Hedley, R. Liu and X. Yang

A New Perspective on the Impact of Diffraction in Proximity of Micro-Metals for Indoor Geolocation
F. Askarzadeh, Y. Ye, K. Ghaboosi, S. Makarov and K. Pahlavan

A practical indoor TOA ranging error model for localization algorithm
J. He, Q. Wang, Q. Zhang, B. Liu and Y. Yu

UWB Localization Algorithm to Improve Accuracy under NLOS Environment
K. Enda and R. Kohno

Concatenated Spectrum Multi-Band TOA Estimation
M. Pourkhaatoun and S. Zekavat

WACC-05: Channel Modeling, Estimation and Equalization - I

Prediction of Frequency Selective SIMO Channels
N. Palleit and T. Weber

Cramer-Rao Lower Bound for Channel Estimation in a MUROS/VAMOS Downlink Transmission
M. Ruder, R. Schober and W. Gerstacker

Iterative Channel Estimation and Data Detection in Fast Fading Channels
M. McGuire

Low Complexity Semi-Blind Channel Estimation Algorithm in Two-Way Relay Networks
Q. Zhao, Z. Zhou and B. Vuetic

Diversity Analysis of Optimal SC-FDE MIMO Systems and Comparison with OFDM Based Transmission
G. Güvensen and A. D. Yilmaz

WACC-06: Relay Assisted Communications - I

Lattice-based coding scheme for MIMO bi-directional relaying with three nodes
M. Pischella and L. R. Didier

Network Coding Noise Reduction via Relay Power Allocation in a Two-unicast Wireless System
Z. Mobini, P. Sadeghi and S. Zokaei

Generalized Bidirectional Multi-pair Multi-antenna Wireless Network Coding
T. Datta, A. Kumar and A. Chockalingam

Out of Group Interference Aware Precoding for CoMP: A Maximum Eigenmode Based Approach
Y. Fang and J. Thompson

Precoder optimization for user fairness in shared relay channels with interference
N. Gresset

WACC-07: MIMO Techniques - I

Space Time Interleaving Code in Frequency Selective Channels
P. Sun and D. Li
An Efficient Feed-forward Method for Lattice Reduction MIMO Schemes
M. Hunukumbure, L. Sarperi and S. Vadgama

Optimizing Energy for Training vs. Data in Linearly Precoded Multuser Sum-Rate Maximization
A. Tenenbaum and R. Adve

Enhanced Iterative Max-Sum-Rate Algorithm for Linear MU-MIMO Precoding
C. Na, X. Hou and A. Harada

Joint Compensation of Multiple RF Impairments in MIMO STBC Systems
J. Qi and S. Aissa

WNHC-2: WNHC – Technology, Applications & Services I

Localization Algorithm Performance in Ultra Low Power Active RFID Based Patient Tracking (invited paper)
W. Cully, S. Cotton, W. Scanlon and J. McQuiston

An Intelligent Multi-modal Affect Recognition System for Persistent and Non-invasive Personal Health Monitoring
X. Liu, L. Zhang and J. Yadegar

Markov Modeling of Energy Harvesting Body Sensor Networks
J. Ventura and K. Chowdhury

On the accuracy of RF positioning in multi-Capsule endoscopy
Y. Ye, U. Khan, N. Alaindi, R. Fu and K. Pahlavan

WWRF Special Session 1: Machine to Machine Communications: Trends, Challenges, Design Principles and Research Directions
16:00 - 16:30
Coffee Break
16:30 - 17:30
WWRF Special Session - Continued

Improving Battery Life and Performance of Mobile Devices with Cyber Foraging
J. Parkkila and J. Porras

Overall discussion

AID-4: Energy Efficient Approaches

Energy Efficient OFDMA: Trade-off between Computation and Transmission Energy
F. S. Chu and K. C. Chen

Iterative Tracking the Minimum of Overall Energy Consumption in OFDMA Systems
F. S. Chu and K. C. Chen

Energy Efficiency and Performance in mobile networks deployments with femtocells
E. Mino

CRSM-5: Spectrum Access and Management

A Stackelberg Game for Cooperative Transmission and Random Access in Cognitive Radio Networks
X. Hao, M. H. Cheung, V. Wong and V. Leung

A Novel Spectrum Selection Strategy for Matching Multi-Service Secondary Traffic to Heterogeneous Primary Spectrum Opportunities
F. Bouali, O. Sallent, J. Pérez-Romero and R. Agustí

An Access Technique for Secondary Network in Downlink Channels
W. Ahmed, J. Gao, S. Saleem and M. Faulkner

CRSM-6: Interference Management

Aggregate interference from Secondary Users with Heterogeneous Density
M. Tercero, K. W. Sung and J. Zander

Model for computing aggregate interference from secondary cellular network in presence of correlated shadow fading
K. Ruttik, K. Koufos and R. Jäntti

Grid-based Channel Mapping in Cognitive Radio Ad hoc Networks
S. Romaszko and P. Mähönen

LPAN-5: Sensor Networks - 1

Nodes Placement for reducing Energy Consumption in Multimedia Transmissions
P. Pace, V. Loscrí, E. Natalizio and T. Razafindralambo

Stochastic Coverage in Event-Driven Sensor Networks
DA-MAC: Density Aware MAC for Dynamic Wireless Sensor Networks
G. Corbellini, E. Calvanesi Strinati, E. Ben Hamida and A. Duda

O. Odejide and A. Aramamalai

On Efficient Airtime-based Fair Link Scheduling in IEEE 802.11-based Wireless Networks
K. Gomez, R. Riggio, T. Rashheed and I. Chlamtac

Distributed Optimal TXOP Control for Throughput Requirements in IEEE 802.11e Wireless LAN

Improving the Accuracy of Connectivity-based Positioning for Mobile Sensor Networks
S. Maclean and S. Datta

Fingerprinting-Based Radio Localization in Indoor Environments Using Multiple Wireless Technologies
M. Rodrigues, L. Vieira and M. Campos

Impact of the Human Motion on the Variance of the Received Signal Strength of Wireless Links
K. El-Kafrawy, M. Youssef and A. El-Keyi

Maximum-Likelihood MIMO Detection Using Adaptive Hybrid Tree Search
K. C. Lai, J. J. Jia and L. W. Lin

Performance Analysis for Coded Cooperative Multiple-Relay in Distributed Turbo Channels
C. Li, Y. Wang, W. Xiang and D. Yang

Error-rate Performance Analysis of Opportunistic Regenerative Relaying
K. Touki, H. C. Yang and M. S. Alouini

Early-Drop based Hybrid ARQ in a Cross-layer context
S. Marcille, P. Ciblat and C. J. Le Martret

Throughput-Optimal Cross-layer Resource Allocation in DS-CDMA Systems with Nakagami Multipath Fading
A. Shojaeifard and M. Shikh-Bahaei

Power Allocation Algorithm for OFDM Distributed Antenna Systems
W. P. Chen

SINR Balancing and Beamforming for the MISO Interference Channel
F. Negro, M. Cardone, I. Ghauri and D. Slock

Single-Port MMSE Beamforming
B. Lawrence and I. Psaromiligkos

Superframe-Level Time-hopping System with Variable Contention Access Period for Wireless Body Area Communications
J. Zhang, L. Hanlen, A. Wang and X. Huang

A Cyclic MAC Layer Synchronisation Approach for Time-critical Low-power Body Sensor Networks
C. Beck, P. Hevesi, J. Nagel, G. Breitmaier and R. Guthoff

Action-based scheduling technique for 802.15.4/ZigBee wireless body area networks
P. Abouzar, K. Shafrans, D. Michelson and V. Leung
Tuesday, September 13

09:00 - 10:00
PL-2: Plenary Talks - Henri Tirri and Wen Tong

10:00 - 10:30
Coffee Break

10:30 - 12:00
AID-5: Femtocell Systems II

A Simple Equalization Technique to Minimize ICI in OFDMA-Based Femtocell Networks
T. G. Amila Pradeep Kumara and N. Rajatheva

Downlink Interference Management Techniques for Residential Femtocells
C. Patel, V. Khaitan, S. Nagaraja, F. Meshkati, Y. Tokgoz and M. Yavuz

On the Analysis of Co-Tier Interference in Femtocells
E. Pateromichelakis, M. Shariat, A. Quddus and R. Tafazolli

Coverage Extension with Hybrid-Access Femtocells
S. Sadr and R. Adve

AID-6: Receiver Issues

Interference Rejection Combining in Two-Tier Femtocell Networks
Y. Jeong, H. Shin and M. Win

Uplink femto-macro ICIC with semi-centralized power control
J. Guillet, L. Brunel and N. Gresset

Periodic Variation Method for Blind Symbol Rate Estimation
A. Guner and I. Kaya

Channel Equalization in Wavelet Packet Modulation by Minimization of Peak Distortion
A. Bajpai, M. K. Lakshmanan and H. Nikookar

Successive Interference Cancellation for Two-group Resource Allocation
M. Gurcan, H. Ab Ghani and I. Ma

CRSM-7: Advanced Spectrum Sensing

Adaptive Spectrum Sensing of Wireless Microphones with Noise Uncertainty
M. Hassan and O. Nasr

Primary-User Mobility Impact on Spectrum Sensing in Cognitive Radio Networks
A. S. Cacacapouti, I. Alykldiz and L. Paura

Analysis of Detection Performance in Spectrum Sensing Optimisation for Long Sensing Periods
K. Chang, B. Senadji and V. Chandran

On the Performance of Dimension Estimation-based Spectrum Sensing for Cognitive Radio
B. Zayen

An energy detector for spectrum sensing in impulsive noise environment
T. Trump and I. Mürsepp

CRSM-8: Radio Resource Allocation and Management

Optimal Power Allocation in Multi-Hop Cognitive Radio Networks
M. Gimyk, M. Xiao and L. K. Rasmus sen

Optimal and Suboptimal Resource Allocation For Two-Hop OFDM-Based Multi-Relay Cognitive Networks
M. Shaah and F. Bader

Power Allocation in Delay-QoS Constrained Multiband Cognitive Radios
I. Musavian and S. Alissa

TDD cognitive radio femtocell network (CRFN)
R. Barangi, S. Saleem, M. Faulkner and W. Ahmed

Distributed Cognitive Two-Way Relay Beamformer Designs under Perfect and Imperfect CSI
P Ubaidulla and S. Alissa

LPAN-7: MIMO Channel Modeling and Transmission Design
Extracting specular-diffuse clusters from MIMO channel measurements
F. Quitin, C. Oestges, F. Bellens, S. van Roy, F. Horlin and P. De Doncker

Empirical Investigation of Multi-Link Separation for Indoor MIMO Channels
C. Oestges and N. Czink

A Performance Evaluation of 60 GHz MIMO Systems for IEEE 802.11ad WPANs
X. Zhu, A. Doufexi and T. Kocak

Asymptotic analysis of the outage probability for MIMO ad-hoc networks
H. Keshavarz and J. Ahmadi-Shokouh

Iterative Intercarrier Interference Mitigation for Mobile MIMO-OFDM Systems
Y. Zhang, J. Li, L. Pang and Z. Ding

LPAN-8: Multihop Cooperative Communication

ECAR: an Energy/Channel Aware Routing Protocol For Cooperative Wireless Sensor Networks
A. Ben Nacef, S. M. Senouci, Y. Ghamri-Doudane and A. L. Beylot

M. Kakitani, G. Brante, R. Demo Souza and A. Munaretto

Femto-Relays: A Power Efficient Coverage Extension Mechanism for Femtocells
P. Jacobs and A Madhukumar

A Study on Outage Probability of Collaborative Multi-Hop Transmissions with Non-Uniformly Distributed Networks
T. Kobayashi, K. Ishibashi and T. Wada

An Experimental Study of Fractional Cooperation in Wireless Mesh Networks
A. Calce, N. Farsad and A. Eckford

Panel 3: Which will be the Winning Technologies for the Networks of the Future?
Chair: Luis M. Correia, Panelists: Marcus Brunner, Hamid Aghvami, Dipankar Raychaudhuri, Henry Tirri

SL-4: Wireless Network Security

Location-based Anonymous Authentication for Vehicular Communications
S. Biswas and J. Mišić

On the resiliency of sensor networks under the pairwise key distribution scheme
O. Yagan and A. Makowski

Efficient Solution to Decrease the Effect of DoS Attack against IP Address Ownership Proof in Mobile IPv6
K. Toyoda, Y. Kamijuchi, S. Inoue and I. Sasase

Limitations of Trust Management Schemes in VANET and Countermeasures
Z. Huang, S. Ruj, M. Cavenaghi and A. Nayak

Neural Network Based PHY-Layer Key Exchange for Wireless Communications
D. Karas, G. Karagiannidis and R. Schober

WACC-12: Cooperative Communications - II

Information Theoretic Performance of Cooperative Underwater Acoustic Communications
B. Al-Dharrab and M. Uysal

A Game Theoretic Approach for Content Distribution over Wireless Networks with Mobile-to-Mobile Cooperation
L. Al-Karj, W. Saad and Z. Dawy

A Novel Optimization Approach for Packet-wise Selective Relaying in CDMA Uplink Communications
N. Debbabi, I. Kammoun and M. Siala

Cooperative Broadcast Channels with Hybrid ARQ
R. Narasimhan

DMT Analysis and Optimization for Cooperative Multiuser OFDMA systems
W. Yang, C. Yueming and Y. Wang

WACC-13: Radio resource management - II

A Dynamic TDD Inter-Cell Interference Coordination scheme for Long Term Evolution Networks
M. Al-Rawi and R. Jantti

A Novel Distributed Inter-cell Interference Coordination Scheme based on Projected Subgradient and Network Flow Optimization
A. Bin Sediq, R. Schoenen, H. Yanikomeroglu, G. Senarath and Z. Chao

Resource Allocation with Sum Throughput Improvement for Uplink Transmission in LTE Systems
C. H. Chang and H. L. Chao

Comparison of Different Network Densification Alternatives from the LTE Uplink Point of View
K. Hiltunen

Dynamic Fractional Power Control for LTE Uplink
S. Essassi, M. Siala and S. Cherif

**WACC-14: OFDM - II**

- **A Low Complexity Receiver for T-transform based OFDM Systems**  
  I. Ali, A. Potlak, L. Luo and L. Davis

- **Near-Optimal Linear Precoding for Multi-Point Cooperative Transmission with Frequency--Selective Channel**  
  Q. Shi and J. Wu

- **A Novel Link Adaptive Transmission Scheme in Higher-Order MIMO Systems**  
  M. Hu, S. Jin and X. Gao

- **Enhanced Alamouti Decoding Scheme for DVB-T2 Systems in SFN Channels**  
  A. Omri, R. Hamila, A. Hazmi, R. Bouallegue and A. Al-Dweik

- **Sensitivity Analysis of Interleaved OFDMA System Uplink to Carrier Frequency Offset**  
  S. K. Hashemizadeh, H. Saeedi-Sourck and M. Omidi

**WACC-15: Analysis, Simulation and Performance Evaluation - I**

- **Analytical Evaluation of LTE Uplink Performance in the IMT-Advanced Indoor Hotspot Scenario**  
  M. Mühliesen and B. Walle

- **A Study on Design of Spatial Fading Emulator Based on Clarke's Model**  
  D. Matsuo, M. Arai, K. Sakaguchi and K. Araki

- **A Handover Optimization Algorithm with Mobility Robustness for LTE systems**  
  K. Kitagawa, T. Komine, T. Yamamoto and S. Konishi

- **Throughput Analysis of TDD LTE Random Access Channel**  
  I. Vukovic and I. Filipovich

- **Hybrid Space-Time Diversity and Spatial-Multiplexing MIMO Cooperative Scheme for Wireless Communication Systems**  
  D. Furtado, F. M. Caldas and W. Freitas

**WNHC-4: WNHC - Channel Modeling & PHY II**

- **Interference Mitigation for Body Area Networks**  
  W. B. Yang and K. Sayrafian

- **Performance and Transmission Power Bound Analysis for Optical Wireless based Mobile Healthcare Applications**  
  S. S. Torkestani, N. Barbot, S. Sahuguede, A. Julien-Vergonjanne and J. P. Cances

- **Dynamic Power Control in Wireless Body Area Networks Using Reinforcement Learning with Approximation**  
  R. Kazemi, R. Vesilo, E. Dutkiewicz and R. Liu

- **Doppler Spread Analysis of Human Motions for Body Area Network Applications**  
  R. Fu, Y. Ye, N. Yang and K. Pahlavan

- **A Statistical Analysis of the Influence of the Human Body on the Radiation Pattern of Wearable Antennas**  
  M. Mackowiak, C. Oliveira, C. Lopes and L. Correa

12:00 - 13:30  
**Lunch**

13:30 - 14:15  
**Keynote 3: Dipankar Raychaudhuri (WINLab)**  
**Keynote 4: Sergio Verdu (Princeton University)**

14:15 - 14:30  
**Break**

14:30 - 16:00  
**AID-7: LTE Networks**

- **Performance of LTE SON Uplink Load Balancing in Non-Regular Networks**  
  J. Tunkka, T. Nhtila and I. Viering

- **Interference Coordination Based on Hybrid Resource Allocation for Overlaying LTE Macrocell and Femtocell**  
  B. Li, Y. Zhang, G. Cui, W. Wang, J. Duan and W. Chen

- **Design of Layered Radio Environment Maps for RAN Optimization in Heterogeneous LTE Systems**  
  T. Cai, J. van de Beek, B. Sayrac, S. Grimoud, J. Nasreddine, J. Riihijarvi and P. Måhlsten

- **How femtocells impact the capacity and the energy efficiency of LTE-Advanced networks**  
  L. Saker, S. E. Elayoubi and T. Chahed

- **E3F based assessment of energy efficiency of Relay Nodes in LTE-Advanced networks**
CRSM-10: Estimation and Detection Techniques

Multiband Joint Detection Framework for Complex Gaussian Signals in Cognitive Radios
S. Farooq and A. Ghafoor

A Multiband MIMO Receiver with Ordered Successive Detection for Cognitive Radio
T. Ohta, S. Danno, M. Morikura and T. Furuno

Estimating Transmitter Activity Patterns: an Empirical Study in the Indoor Environment

An Adaptive Energy Detection Technique Applied to Cognitive Radio Networks
A. Vakili and B. Champagne

A Wideband Interference Power Estimator using a 1-bit Quantizer
S. Dwivedi, A. De Angelis and P. Händel

CRSM-9: Cognitive Radio: Applications and Operations

A short feasibility study of a cognitive TV black space system
Y. Sielen, R. Baldemair and J. Sachs

Feasibility evaluations for secondary LTE usage in 2.7-2.9GHz radar bands
M. I. Rahman and J. Karlsson

Cognitive radio implementation in ISM bands with Microsoft SORA
J. Bajaj, W. Kim, S. Oh and M. Gerla

An analysis of radio fingerprints behavior in the context of RSS-based location fingerprinting systems
A. Arya and P. Godlewski

Reporting Effort for Cooperative Systems Applying Interference Floor Shaping
W. Mennerich and W. Zirwas

ITN-2: Field Operational Tests, Applications, Intelligent Transportation Systems

Experimental Analysis of Beamforming in High-Speed Railway Communication
H. H. Wang and H. A. Hou

CVI: Connected Vehicle Infrastructure for ITS
A. Koulakezian and A. Leon-Garcia

Efficient Secure Service Discovery Protocol for Intelligent Transportation Systems
K. Abrougui and A. Boukerche

Exploiting Trunked Radio to Support ITS Network Expansion and Redundancy
E. Vorakitolan, J. Havlicek, M. Atiquzzaman and R. Barnes

Sharing Vehicle and Infrastructure Intelligence for Assisted Intersection Safety
S. Datta Gupta, Y. P. Fallah and S. Shladover

LPAN-10: Sensor Networks - 2

Energy-Efficient Beacon-less Protocol for WSN
I. Amadou, G. Chelius and F. Valois

Overflow of Fountain Codes in Multi-hop Wireless Sensor Networks
A. Apavatjut, K. Jaffrès-Runser, C. Goursaud and C. Lauradoux

An Efficient Event Detecting Protocol in Event-driven Wireless Sensor Networks
L. Liang, D. Gao, Z. Hongke and O. Yang

Efficient and Reliable Breadcrumb Systems via Coordination among Multiple First Responders
H. Liu, Z. Xie, J. Li, K. Whitehouse, J. Stankovic, S. Lin and D. Siu

Sensor Context Information for Energy-Efficient Optimization of Wireless Procedures
D. Conjo, M. Lebre, D. Gomes and R. Aguiar

LPAN-9: Emerging Applications

Exploiting Radio Irregularity in the Internet of Things for Automated People Counting
W. C. Lin, W. Seah and W. Li

Enhancing the Capability and Energy Efficiency of Smartphones using WPAN
R. Palit, A. Singh and K. Naik

i-LightHouse: a Visible Light Communication System for the Visually Impaired
A. Funahashi, K. Kobayashi, H. Okada and M. Katayama

Exploring Terabit Wireless Potential of Wavelength Division Multiplexing
C. Y. Shen, F. S. Chu and K. C. Chen
Web Services for Indoor Energy Management in a Smart Grid Environment
A. Khan and H. Mouftah

Panel 4: Heterogeneous Networks
Chair: Laurent Roullet, Panelists: Pantelis Monogioudis, Ekram Hossain, Laurent Roullet, Yves Lostanlen

SL-5: INS, Dead-Reckoning, and Vehicular Localization

Zigbee as a Means to Reduce the Number of Blind Spot Incidents of a Truck

Performance analysis of a novel pedestrian dead-reckoning method
B. Pricope and H. Haas

A Walking Velocity Update Technique for Pedestrian Dead-Reckoning Applications
C. C. Lo, C. P. Chiu, Y. C. Tseng, S. A. Chang and L. C. Kuo

Usability of Apple iPhones for Inertial Navigation Systems
C. Schindhelm, F. Gschwandtner and M. Banholzer

A Nearest Transmitter Classification Method for VLC Based Positioning System
C. Sertthin, T. Ohtsuki, O. Takyu, T. Fuji and Y. Umeda

WACC-16: Channel Modeling, Estimation and Equalization - II

Low-complexity frequency offset and phase noise estimation for burst-mode digital transmission
J. Bhatti, N. Noels and M. Moeneclaey

Second-Order Statistics of 2D Non Isotropic Mobile-to-Mobile Wireless Channels
P. Samarasinghe, T. Ahlayapala, T. Lamahewa and R. Kennedy

Widely Linear vs. Conventional Subspace-Based Estimation of SIMO Flat-Fading Channels
S. Abdallah and I. Psaromiligkos

Performance Evaluation of Downlink Beamforming over Non-Stationary Channels with Interference
A. Ispas, C. Schneider, G. Ascheid and R. Thomà

Bayesian and Deterministic CRBs for Semi-Blind Channel Estimation in SIMO Single Carrier Cyclic Prefix Systems
S. Omar, D. Slock and O. Bazzi

WACC-17: Relay Assisted Communications - II

Energy-Efficient Techniques Allowing Intra-link Errors for Block-Fading Multiple Access Relaying
P. S. Lu and T. Matsumoto

Joint Power Allocation and Beamforming for Multiuser MIMO Two-way Relay Networks
M. Khafagy, A. El-Keyi, T. ElBatt and M. Nafie

Energy Efficiency Using Cooperative Relaying
T. u. R. Ahsin and S. Ben Slimane

Joint Optimization of Power Allocation and Relay Position for Regenerative Relaying in the Presence of Co-Channel Interference
S. Iki and S. Aissa

Power Allocation for Two-Way Amplify-Forward Relaying with Receive Channel Knowledge
H. Bagheri, M. Andakani and C. Tellambura

WACC-18: MIMO Techniques - II

A computationally efficient multimode antenna selection algorithm for MIMO V-BLAST systems
C. E. Chen and S. H. Huang

Low Complexity Soft-Output Signal Detector for Spatial-Multiplexing MIMO System
L. Liu, J. Löfgren and P. Nilsson

Modified Partial Euclidean Distance for Iterative Tree-Search MIMO Detection
T. Wiegand, N. Heidmann and S. Paul

Scale Effects Oriented MIMO Detector
R. Qian, Y. Qi and W. Wang

Near-Capacity MIMO Subspace Detection
Y. Chen and S. ten Brink

WACC-19: Modulation and Coding - I

Proposal of Cross-Carrier Precoding for Carrier Aggregation Enhancement
Y. Ikeda, I. Kanno, T. Kitayabu and H. Ishikawa

Peak power reduction techniques for multi-channel SC-OFDM
F. Hasegawa, A. Okazaki and H. Kubo
Performance Degradation of Turbo Coded Physical Layer Network Coding on the Two-Way Relay Channel
D. Fang and A. Burr

Performance Analysis of Variable-Rate Adaptive Modulation for AF Opportunistic Relaying under Outdated CSI
M. Torabi, J. F. Frigon and D. Haccoun

Cooperative Detection over Multiple Parallel Channels: a Principle Inspired by Nature
R. Mathar and A. Schmeink

WNHC-5: WNHC - Technology, Applications & Services II

Remote Elderly Assisted Living System- A preliminary research, development and evaluation
M. Ghassemian, S. Auckburaully, M. Pretorius and D. Jai-Persad

Classifier Fusion Framework using Genetic Algorithms
T. Tamminedi, P. Ganapathy, L. Zhang and J. Yadegar

A State Classification Method Based on Space-Time Signal Processing Using SVM for Wireless Monitoring Systems
J. Hong and T. Ohtsuki

Ranging Based on Maximum Likelihood Techniques for Ultra Wideband Medical Implants
M. Kanaan

A Cooperative Medical Traffic Delivery Mechanism for Multi-hop Body Area Networks
K. Ghaboosi, K. Pahlavan and C. Pomalaza-Ráez

16:00 - 16:30
Coffee Break

16:30 - 17:30
AID-8: MAC and Higher Layer

Virtual Wireless Network Mapping: An Approach To Housing MVNOs On Wireless Meshes
G. Bhanage, Y. Zhang and D. Raychaudhuri

Enhancement of Packetised-Preamble Based MAC Protocols: A Solution to Hidden-Node Problem in WSNs
S. Choobkar and R. Dilbaghani

An Efficient Measurement Report Mechanism for Long Term Evolution Networks
S. F. Chou, H. L. Chao and C. I. Liu

CRSM-11: Signal Processing for Cognitive Radio

GSM Downlink Spectrum Occupancy Modeling
L. Mendes, L. Gonçalves and A. Gameiro

UEP Framework in Multiresolution Modulation for Robust Image Broadcasting
H. Datta and J. Ikow

CRSM-12: Opportunistic Spectrum Access

On Discretizing the Exponential on-off Primary Radio Activities in Simulations
Z. Wang, Y. H. Chew and C. Yuen

Multi-rate Opportunistic Spectrum Access in Multi-hop Ad Hoc Networks
Ari Rapino H. M. Bandai and T. Watanabe

Decentralized Coordinated Downlink Beamforming for Cognitive Radio Networks
H. Pennanen, A. Tölli and M. Latva-aho

ITN-3: ITS Networks and Networking Technologies

On the Optimal MAC Layer Capacity of Delay Tolerant Mobile Ad Hoc Networks with a Finite Number of Nodes
S. Vassilaras and I. Christou

Using a symmetric game based in Volunteer’s Dilemma to improve Vanets multihop broadcast communication
F. Roberto, J. Celestino Júnior and H. Schulzinne

Opportunistic Trajectory-based Routing for V2V Communications
H. N. Dau and H. Labiod

LPAN-11: Physical Layer Design - 2

Mutual-Information Based Rate-Adaptation for Multi-User TH-IR-UWB coded system
G. Boccolini and C. Poulliat

A Space-Time Precoded Hybrid Beamforming Architecture for Broadband Transmissions in 60GHz Radio
Y. H. Yin, L. K. Chiu and S. H. Wu
Computationally Efficient Implementation for Incremental Redundancy within Wireless Networks
T. Elshabrawy and M. Elsharkawy

LPAN-12: Medium Access Control - 3

Efficient mm-Wave Beamforming Protocol for Group Environments
J. Haapola and S. Kato

Resource Allocation in Optical Wireless Networks
B. Ghimire and H. Haas

Throughput of CSMA in eta-mu Fading Channels
E. Leonardo and M. D. Yacoub

SL-6: Secrecy Capacity of Wireless Communications

On the Ergodic Secrecy Rate of Multiple-Antenna Wiretap Channels Using Artificial Noise and Finite-Rate Feedback
L. Sun and S. Jin

Closed-form Approximations for Secrecy Capacity in Rayleigh-fading Multi-antenna Systems
R. Qian, Y. Qi, W. Wang and J. Yang

Increasing Secrecy Capacity via Joint Design of Cooperative Beamforming and Jamming
X. Guan, C. Yueming, Y. Wang and W. Yang

WACC-20: Diversity Techniques - II

Myopic Multi-Hop Transmission Strategies in Layered Wireless Networks
M. Girnyk and L. K. Rasmussen

A simple optimal solution for relay assignment in cooperative systems based on the max-min criterion
A. Minayi Jalil, V. Meghdadi, A. Ghrayeb and J. P. Cances

Outage Analysis of Hybrid-ARQ Protocols in Coherent Free-Space Optical Communications
S. Molla Aghajanzadeh and M. Uysal

WACC-21: Cross Layer Design – II

Four-Level UEP of H.264 Scalable Video Coding using Discrete Wavelet Transform
A. Morcos and T. Elshabrawy

Cross-Layer Dynamic Subcarrier Allocation in Multiuser OFDM System with MAC Layer Diverse QoS Constraints
P. Mi and X. Wang

Cross-layer Dynamic Route Selection in Wireless Multiuser Two-hop Networks
K. Rahimi Malekshan and F. Lahouti

WACC-22: Multiple Access Techniques - I

Successive Interference Cancellation Techniques for LTE Downlink
J. Axnäs, Y. P. E. Wang, M. Kamuf and N. Andgart

Impact of Receiver Interference Cancellation Techniques on the Base Station Power Consumption in MIMO Systems with Inter-Cell Interference
I. Ku, C. Wang, J. Thompson and P. Grant

WACC-23: Routing and Scheduling - I

Towards Distributed and Dynamic Backpressure Routing for Wireless Mesh Networks
J. Núñez-Martínez, J. Mangues-Bafalluy and M. Portoles-Comeras

Analysis of Deficit Round Robin Scheduling for Future Aeronautical Data Link
S. Ayaz, F. Hoffmann, R. German and F. Dressler

Efficient Scheduling for Relay-Aided Broadcasting with Random Network Codes
Li Lu, M. Xiao, L. K. Rasmussen and M. Skoglund

WNHC-6: WNHC - MAC & Cross Layer Design II

A Power Efficient Pulsed MAC Protocol for Body Area Networks
D. Layerte and A. Kwinski

Performance Benchmarking for Wireless Body Area Networks at 2.4 GHz
Yu Ge, J. W. Kwan, J. S. Pathmasuntharam, Z. Di, T. See, W. Ni, C. W. Kim, T. M. Chiamb and M. Ma

A Cooperative Transmission Scheme for Real-Time Data Gathering in a Wireless Body Area Network
S. Hara, D. Anzai, K. Yanagihara, K. Takizawa and K. Hamaguchi
Wednesday, September 14

09:00 - 10:00
PL-3: Plenary Talks - Jalal Mapar and Riuji Kohno

10:00 - 10:30
Coffee Break

10:30 - 12:00
AID-9: Femtocell Systems III

Throughput and Fairness of Femtocell Users in OFDM Macrocell-Femtocell Networks
P. Tarasak and T. Q. S. Quek

Optimization of Power Control Algorithm for Femtocells Based on Frame Utilization
P. Mach and Z. Becvar

Downlink Femto-Macro ICIC with Blind Long-Term Power Setting
J. Gulliet, L. Brunel and N. Gresset

User-vote Assisted Self-organizing Load Balancing for OFDMA Cellular Systems
L. Xu, Y. Chen, J. Schormans, L. Cuthbert and T. Zhang

Distributed Pareto-Optimal Power Control in Femtocell Networks
D. Ngo, L. Le and T. Le-Ngoc

CRSM-13: Cognitive and Cooperative Radio Networks

A Novel Spectrum Aware Routing Scheme for Multi-hop Cognitive Radio Mesh Networks
P. Shamsad and T. Fuji

Cognitive Relaying with Time Incentive: Protocol Design for Multiple Primary Users
T. Nadkar, V. Thumar, K. Shenoy, U. Desai and P. Merchant

An Efficient Pre-scanning Scheme for Handoff in Cooperative Vehicular Networks
T. Y. Wu, W. T. Lee, F. H. Liu, H. L. Chan and T. H. Lin

Outage in a Cellular Network Overlaid with an Ad hoc Network: The Uplink Case
A. Kahlon, S. Periyalwar, H. Yanikomeroglu and S. Szyszkowicz

Trust Computation Through Anomaly Monitoring in Distributed Cognitive Radio Networks
S. Bhattacharjee, S. Debroy and M. Chatterjee

CRSM-14: Performance Modeling and Analysis

Modeling and Performance Analysis of Cooperative Communications in Cognitive Radio Networks
M. Khabbazian and S. Aissa

Further Results On the Performance of Energy Detector over Generalized Fading Channels
G. Gokhali and A. Annamalai

Performance of Cognitive Radio Networks under ON/OFF and Poisson Primary Arrival Models
S. L. Castellanos-Lopez, F. Cruz-Pérez and G. Hernandez-Valdez

Capacity of Cognitive Radio under Imperfect Secondary and Cross Link Channel State Information
L. Shou, Z. Rezki and M. S. Alouini

Performance based Channel Allocation in IEEE 802.22 Networks
S. Debroy, S. Bhattacharjee and M. Chatterjee

LPAN-13: Mobility and Resource Management

Channel Ranking Algorithm and Ranking Error Bounds: A Two Channel Case
A. Mahmood, K. Koufos and R. Jäntti

Mobile WiMAX Video Quality and Transmission Efficiency
V. Sgardoni, D. Halls, S. M. M. Bokhari, D. Bull and A. Nix

Cross-Layer Interference Minimization-Oriented Channel Assignment in IEEE 802.11 WLANs
D. Fan, X. Wang and P. Mi

Femtocell wireless time-variant stochastic channel modelling related to indoor human activity
Y. Corre, M. Brau and Y. Lostanlen

Mobility Diversity in Mobile Wireless Networks
V. Havary-Nassab, S. Shahbazpanahi and S. Valaee

LPAN-14: Relaying and Cooperative Communication - 2

Throughput Optimal Resource Management of Cooperative Networks with Mobile Clouds
M. Kangas and S. Glisic
Performance Analysis of Cooperative Communication with Heterogeneous Relays
M. Jeong, S. Hwang, D. K. Kim and J. Yang
Joint Optimization of HD Video Coding Rates and Unicast Flow Control for IEEE 802.11ad Relaying
J. Kim, Y. Tian, A. Molisch and S. Mangold
Exact BEP of Cooperative MC-CDMA Systems using Selective Threshold Digital Relaying
H. Hakim, H. Boujemaa and W. Ajib
Joint Relay Selection and Scheduling Algorithm for Inter-Piconet Communications in Millimeter Wave Wireless Personal Area Networks
J. H. Liu and H. L. Chao

Panel 5: How to make Mobile Cellular Communications even Greener?
Chair: Luis M. Correia. Panelists: Mohamed Cheriet, Magnus Olsson, Matti Latva-aho, Roberto Fantini

SL-7: Localization
Estimation of Prior Positioning Method Performance in LTE
T. Wigren, I. Siomina and M. Anderson
Anchorless Localization with Local Manifold Flattening
D. Popescu, M. Hedley and T. Sathyam
AOA/AOA/TOA-based 3D Positioning in NLOS Multipath Environments
X. Wei, N. Pallett and T. Weber
Precoder Design for Improving the Performance of MUSIC-based Angle-of-Arrival Estimator
Li Zhang, Y. H. Chew and W. C. Wong
High Performance Non-Line-of-Sight Identification using MIMO-OFDM Space Frequency Correlation Statistics
W. Xu and S. Zekavat

WACC-24: Cooperative Communication - III
In-band and out-band relaying configurations for dual-carrier LTE-Advanced system
J. Gora and S. Redana
Dynamic Decode and Forward for the Multi-Access Relay Channel with Finite Block Length
C. P. Lee and H. J. Su
Symbol-Asynchronous Compute-and-Forward
H. Najafi, M. O. Damen and A. Hjørungnes
Optimization of Random Selection and Forwarding for Multiple-Relay Networks
I. Chatzigeorgiou and A. Tarable
A Performance Study of Energy Detection for Dual-Hop Transmission with Fixed Gain Relays: Area under ROC Curve (AUC) Approach
S. Alam, O. Olabiyi, O. Odejide and A. Annamalai

WACC-25: Radio Resource Management - III
Wireless Mesh Networks: Energy - Capacity Tradeoff and Physical Layer Parameters
A. Ouni, H. Rivano and F. Valois
Network-Power-Saving Resource Allocation Algorithm with Hybrid Communication Mode for OFDMA Relay Networks
J. Joung and S. Sun
Distributed Antenna Systems With Frequency Reuse
H. Osman, H. Zhu and T. Alade
Full Reuse Resource Partition for Multihop Relay Networks with Tree and Mesh Structures
B. Fan and A. Saadani
EVM Considerations for Convergent Multi-Standard Cellular Base-Station Transmitters
S. Kowlgi, P. Mattheijssen, B. Corinne and T. Ridgers

WACC-26: Interference Management - II
MSE-Based Orthogonal Beamformer Design for Interference Alignment in a MU-MIMO Cellular Network
M. A. Torabi, J. F. Frigon and C. Cardinal
Optimal Degree of Freedom for MIMO Interference Channels with Constant Channel Coefficients
S. Jung and J. Lee
Capacity Region of K-User Discrete Memoryless Interference Channels with a Mixed Strong-Very Strong Interference
A. Ganeshan and B. S. Rajan
Generalized Precoder Design for MIMO Interference Channel Based on Interference Alignment
H. Sun and W. Fang
A Divide-and-Conquer Approach to Mitigate Relay-to-Relay Interference
A. Bou Saleh, Ö. Bulakci, S. Redana, B. Raaf and J. Hämäläinen
WACC-27: Analysis, Simulation and Performance Evaluation - II

Symbol Error Rate Analysis of Relay-based Wireless Systems
I. Abualhaol

On the Performance Analysis of Cooperative Non-Regenerative Relay Systems over Generalized Fading Channels
O. Okaiyi and A. Annamalai

Outage Performance in Cooperative CDMA Systems over Nakagami-m Fading Channels
A. M. A. Mehemed and W. Hamouda

Performance Analysis of Opportunistic Relaying Over Imperfect Non-identical Log-normal Fading Channels
A. Kalantari, M. Mohammadi and M. Ardebilipour

WACC-28: Routing and Scheduling - II

Utility-based Joint Routing and Spectrum Partitioning in Relay LTE-Advanced Networks
T. Liu and M. Rong

LTE Frequency Selective Scheduling Performance and Improvements
P. Ökvist, A. Simonsson and H. Asplund

User Scheduling Scheme for Network MIMO System with Feedback Reduction
W. Chunyan, Z. Zhang, R. Yin and C. Wang

Cell-Grouping Based Distributed Beamforming and Scheduling for Multi-cell Cooperative Transmission
X. Hou, E. Björnson, C. Yang and M. Bengtsson

Multi-user Hybrid Switched-Selection Diversity Systems
M. Shaqleh, H. Alnuweiri and M. S. Alouini

WNHC-7: WNHC - Wireless Sensor Networks & MANET

X-Geocasting: Data Dissemination to Mobile Sink Groups in Wireless Sensor Networks
S. Park, E. Lee, Y. Yim, F. Yu and S. H. Kim

Data Dissemination Protocol based on Independent Grid Structure in Wireless Sensor Networks
E. Lee, S. Park, H. Park, Y. Yim and S. H. Kim

Energy Efficient Data Dissemination Protocol for a Mobile Sink Group in WSNs
H. S. Mo

Weighted Sum-Rate Maximization in Singlecast and Multicast Wireless Networks - Global Optimum via Branch and Bound
M. Codreanu, P. Weeraddana, M. Latva-aho and A. Ephremides

Social Mobility Models using Ant Colony Systems
L. Harfouche, H. Costantini and S. Boumerdassi

12:00 - 13:30
Lunch

13:30 - 15:00
AID-10: Self-Configuration Techniques

Self-organized Network Management functions for Relay enhanced LTE-Advanced Systems
K. Samdanis and M. Brunner

L. Ferrera and L. Correa

Self-Configuring Switched Multi-Element Antenna System for Interference Mitigation in Femtocell Networks
R. Razavi and H. Claussen

Base Station distributed Handover Optimization in LTE Self-Organizing Networks
L. Ewe and H. Bakker

Cost and Feasibility Analysis of Self-deployed Cellular Network
D. H. Kang, K. W. Sung and J. Zander

AID-11: Frequency Re-Use/Cellular System Techniques

Adaptive Flexible Spectrum Usage Algorithms in Heterogeneous Cell Deployment
J. Mestre, N. Pratas, N. Prasad, A. Rodrigues and R. Prasad

A Spatial Study of Mixed Wireless and Wireline Heterogeneous Networks
H. Y. Chen and C. h. Lee

A Performance Evaluation Framework for Control Loop Interaction in Self Organizing Networks
X. Gelbert, B. Sayrac and S. Ben Jemaa

Efficiency of Partial Frequency Reuse in Power Used Depending on User's Selection for Cellular Networks
B. Krasniqi and C. Mecklenbräuker
Adaptive Handoff Initiation Method for Improving Throughput in Data-Oriented Communications Networks
H. W. Chang and L. C. Wang

CRSM-15: Cognitive Radio Performance

On Adaptive Modulation and Power Control for Cognitive Radios with Primary User Outage Constraint
C. C. Chai and Y. H. Chew

Performance of a Sensor Network Aided Cognitive Radio System
P. Grønsund and O. Grøndalen

Performance of Cooperative Spectrum Sensing with Correlated Cognitive Users’ Decisions
L. Khalid and A. Anpalagan

Aggregate Interference and System Performance in Finite Area Cognitive Radio Networks
L. Vijayadran, P. Dharmawansa, T. Ekman and C. Tellambura

Controlling the interference from multiple secondary systems at the TV cell border
K. Koufos, K. Ruttik and R. Jäntti

CRSM-16: Cognitive Radio Resource Management

Spectrum Markets for Service Provider Spectrum Trading with Reinforcement Learning
N. Abji and A. Leon-Garcia

Cooperative Game Theory and Auctioning for Spectrum Allocation in Cognitive Radios
J. Rajasekharan, J. Eriksson and V. Koivunen

Weighted Sum Rate Maximization in the Underlay Cognitive MISO Interference Channel
L. Gallo, F. Negro, I. Ghaani and D. Stolk

Opportunistic Load and Spectrum Management for Mobile Communications Energy Efficiency
O. Holland, G. Cabral, F. Velez, A. Aliaj, P. Pangalos and H. Aghvami

ENPA and EBPA Models for Primary User Activity Based Power Allocation in Cognitive Systems
M. Gonenwardena, N. Rajatheva, T. Chahed and D. Zeghlache

LPAN-15: Multihop Routing

An Iterative Routing Algorithm for Energy Minimization in Coded Wireless Networks
L. Huang and C. W. Sung

A New Proposal for Reliable Unicast and Multicast Transport in Delay Tolerant Networks
A. Al, T. Chahed, E. Allman, M. Panda and L. Sassatelli

Replication Schemes for Peer-to-Peer Content in Wireless Mesh Networks with Network Support
A. Al Aasaad, S. Gopalsaririshan and V. Leung

Performance Evaluation of Wireless Multihop Communications for an Indoor Environment
P. Spachos, F. Bui, L. Song, Y. Lostanlen and D. Hatzinakos

On the Statistical Behaviors of Network-level Features within MANETs
D. Arora, E. Millman and S. Neville

Panel 6: Mobile Internet for the Emerging Economies
Chair: Sudhir Dixit, Panelists: Roch Glitho, Catherine Rosenberg, Hussein Mouftah, Matti Latvaho, Vino Vinodrai

SL-8: Cooperative Localization Methods

A Particle Filtering Algorithm for Cooperative Tracking of Nodes in Wireless Networks
T. Sathyana and M. Hedley

Cooperative TDOA Estimation with Trigger Relay
H. Lu, R. Martinez and H. Nikookar

Cooperative Network Localizability via Semidefinite Programming
H. Nouri, E. Castelain and R. Pyndiah

Cooperative Geo-location in Underground Mines: A Novel Fingerprint Positioning Technique Exploiting Spatio-Temporal Diversity
S. Deyukh, S. Affes, N. Kandil and C. Nerguizian

WACC-29: Channel Modeling, Estimation and Equalization - III

Robust Training Sequence Design for Spatially Correlated MIMO Channels and Arbitrary Colored Disturbance
N. Shariati and M. Bengtsson

Second-Order Moment-Based Direction Finding of a Single Source for ULA systems
F. Bellili, S. Affes and A. Stephenne

Hybrid Time/Frequency Domain Compensator for RF Impairments in OFDM Systems
A. Kiyani, L. Antilla, Y. Zou and M. Valkama
Channel Reciprocity of Compact Antenna Array and the Calibration
J. Shi, Luo and H. Sun

Wideband MIMO Channel Diagonalization in the Time Domain
R. Brandt and M. Bengtsson

WACC-30: Relay Assisted Communications - III

Error Probability Analysis of Two-Way Amplify-and-Forward Relaying in the Presence of Imperfect Channel Estimations
S. Iki and S. Aisica

Outage Probability of Dual-Hop Partial Relay Selection with Feedback Delay in the Presence of Interference
F. Al-Qahtani, R. Rastaydeh and H. Alnuweiri

Bounds on the Throughput Performance of PU2RC
A. Sattarzadeh and A. Olfat

Performance Analysis of SC-FDMA in the Presence of Receiver Phase Noise
G. Sridharan and T. J. Lim

Fairness Analysis in Cellular Networks using Stochastic Petri Nets
R. Schoenen, A. Bin Sedig, H. Yanikomeroglu, G. Senarath and Z. Chao

WACC-31: MIMO Techniques - III

On Optimum End-to-End Distortion in Delay-Constrained Wideband MIMO Systems
J. Chen and D. Stokk

Adaptive Beamforming Algorithms for Wireless Link Layer Multicasting
M. Khojastepour, A. Khajehnejad, K. Sundaresan and S. Rangarajan

SCSI Aided Multi-Beam Selection for Transmit Correlated Channels
Q. Sun, R. Liu, Y. Zhang, J. Wang and X. Gao

Performance of LTE in Rural Areas - Benefits of Opportunistic Multi-User MIMO
I. Latif, F. Kaltenberger, R. Ghaffar, D. Nussbaum, H. Callewaert and G. Scot

Improving Downlink Multiuser MIMO Throughput in LTE-Advanced Cellular Systems
G. Yue, N. Prasad, M. Jiang, M. Khojastepour and S. Rangarajan

WACC-32: Modulation and Coding - II

On the Performance of Hybrid-ARQ with Code Combining over Double Rayleigh Fading Channels
A. Chelli and M. Pätzold

I. Gutman and D. Wulich

Completion Delay Reduction in Lossy Feedback Scenarios for Instantly Decodable Network Coding
S. Sorour and S. Valaee

Novel Approximation for the Gaussian $Q$-Function and Related Applications
Q. Shi

WACC-38: Multiuser and Cooperation

Reverse Link Sum Rate for Multi-Cell Multi-User Cellular Systems with Successive Interference Cancelation
Q. Huang, X. Liu and H. Yang

Multi-User Cross-Layer Optimization for Delay-Sensitive Applications Over Wireless Multihop Mesh Networks
A. Awad, O. Nasr and M. Khairy

Joint Cooperative Scheduling and Power Control for Interference-Limited Wireless Networks
L. Le and T. Le-Ngoc

Controlling Variability of Dynamic RRM in Relay Enhanced OFDMA-Based Networks
M. Pilipietakis, P. Kofidis, J. Zhang and H. Zhuang

15:00 - 15:30
Coffee Break
15:30 - 17:00

AID-12: Cooperative Techniques

Metrics for Optimal Relay Selection in Cooperative Wireless Networks
R. Sadeghi, J. P. Barraca and R. Aguiar

Cooperation and Competition between Wireless Networks in Shared Spectrum
D. H. Kang, K. W. Sung and J. Zander

M. P. Sousa, W. Lopes and M. Alencar

Energy Efficient Cooperative Strategies in Hybrid Aerial-Terrestrial Networks for Emergencies
S. Kandeepan, K. Gomez, T. Rasheed and L. Reynaud

Consensus-based decentralization of interior point methods for heterogeneous networks energy saving
M. Khanfouci and N. Gresset

CRSM-17: Cognitive Radio and HetNet Performance

Interference and Performance Analysis for Cognitive Adhoc Network with Relay Assisted Primary Link
U. Wijewardhana, N. Rajatheva and M. Latva-aho

Symbol Error Rate Analysis in Multiuser Underlay Cognitive Radio Systems
L. Li, P. I. Derwin and M. Pesavento

Experimental and Analytical Study regarding Transmission Quality of Wireless LAN System - for implementation of heterogeneous wireless network -
K. Kashiki and A. Yamaguchi

Performance of Neural Network Based Distributed Radio Resource Usage Optimization Algorithms in Realistic Heterogeneous Wireless Networks
M. Hasegawa, K. Ishizu, H. Murakami and H. Harada

15:30 - 17:20

CRSM-18: Spectrum Sensing, Access and Management

Distributed Compressed Sensing for Block-sparse Signals
X. Wang, G. Werbin, Y. Lu and W. Wang

A Primary Traffic Aware Opportunistic Spectrum Sensing for Cognitive Radio Networks
F. Zhang, W. Wang and Z. Zhang

An Autoregressive Approach for Spectrum Occupancy Modeling and Prediction Based on Synchronous Measurements
A. Goroch, H. Celebi, K. Garage and H. Arslan

Performance Evaluation of Secondary Users in Dynamic Spectrum Access System
H. Qing, S. Xu and X. Jin

Dynamic Spectrum Sharing for Two-Layer Cellular Networks
R. T. Juang, K. P. Yar, P. Ting, H. P. Lin and D. B. Lin

15:30 - 17:00

ITN-4: Radio Technologies, ITS Communications

NEMO Route Optimization with Strong Authentication for Aeronautical Communications
C. Bauer

On the Single-Target Accuracy of OFDM Radar Algorithms
M. Braun, C. Sturm and F. Jondral

Extending the DSRC's Control Channel using Cognitive Networking Concepts and Fuzzy Logic
A. J. Ghandour, K. Fawaz, H. Artail and R. Hamade

Infrastructure-to-Vehicle Cooperative Communications with Decode-and-Forward Relaying
M. Feteiha and M. Uysal

WACC-33: Multiple Access Techniques - II

Sum MSE Optimization for Downlink Multiuser MIMO Systems with per Antenna Power Constraint: Downlink-Uplink Duality Approach
T. Bogale and L. Vandendorpe

Application of Telser's Safety-First Criterion to Adaptive Power Control
A. Kotela and A. Männelä

Adaptive Bit Allocation Methods for Multi-cell Joint Processing Systems with Limited Feedback
S. Yu, Y. T. Kim, S. H. Park and I. Lee

A Constellation Power Allocation Scheme for Two-User Gaussian MAC
J. Harshan and B. S. Raja

Adaptive Differential Feedback in Time-Varying Multiuser MIMO Channels
M. N. Islam and R. Adve

WACC-34: Antenna and Propagation

Controlling Coupling Between Two Transmitting Antennas for MIMO Handset Applications
S. Ali and J. Warden

Modelling, Measurement and Analysis of Narrowband Fast Fading on Relay Channels
G. Levin, R. Bultitude and H. Zhu

Design of RF/Microwave Efficient Buildings Using Frequency Selective Surface
I. Ullah  
Spectral Efficiency Analysis of Distributed Antenna System for In-Building Wireless Communication  
T. Alade, H. Zhu and H. Osman

WACC-35: Modulation and Coding - III

Heuristic Approach to Construct Three-Dimensional Codes for Feedback-Based MIMO-CDMA  
Y. Hayashi and M. Hamamura

FPGA Design of a Truncated SVD Based Receiver for the detection of SEFDM Signals  
R. Grammenos, S. Isam and I. Darwazeh

Linear Dispersion Codes Design for Asynchronous Cooperative Communications  
W. Wang and F. C. Zheng

Cyclic Prefix and Intra-fix Insertion for Multi-h CPM based on Tilted Phase Transformation  
S. Saleem and G. Stüber

WACC-36: Field Tests and Measurements

Large Scale Field Trial Results on Time Domain Compression for Uplink Joint Detection  
M. Grieger and G. Fettweis

Radio Propagation Measurements and Channel Characterisation Pertinent to Urban Microcellular Communications Systems Incorporating Relay Links  
R. Bultitude, G. Levin and H. Zhu

Field Trial Results for Integrated WiMAX and Radio-over-Fiber Systems on High Speed Rail  

WACC-37: Wireless IP and Multimedia Services

Optimization of rateless-coded asynchronous multimedia multicast  
Yu Cao, S. Blostein and W. Y. G. Chan

CSoS Voice Capacity in HSPA networks with realistic overhead channel modeling  
P. K. Vitthaladevuni, R. Kapoor, O. Ozturk and W. Zeng

Application-centric Content Delivery Schemes for Future Wireless Networks  
P. Lungaro and Z. Segall

Dynamic Power Allocation for Multicast/Broadcast Services with Cooperative Distributed Antenna Systems  
P. H. Kuo and P. Ting