Wednesday, April 9 2014  09:00 - 10:30  
Room:  Emirgan 1

**PHY27: Cognitive Relay Networks**  
**Chair:** TBA

*Energy-Efficient Cooperative Spectrum Sensing using Rateless Coded Relaying*  
Ali Aziz (Lahore University of Management Sciences, Pakistan); Momin Uppal (Lahore University of Management Sciences, Pakistan)

*Distributed Beamforming for Spectrum-Sharing Relay Networks under Mutual Primary-Secondary Interference*  
Ali Afana (Concordia University, Canada); Ali Ghrayeb (Texas A&M University at Qatar, Qatar); Vahid Asghari (McGill University, Canada); Sofiene Affes (INRS-EMT, Canada)

*Performance Analysis of Cognitive Relay Networks with Imperfect Channel Knowledge over Nakagami-m Fading Channels*  
Jia Xing (Beijing University of Posts and Telecommunications, P.R. China); Xing Zhang (Beijing University of Posts and Telecommunications, P.R. China); Jiewu Wang (BUPT, P.R. China); Zhenhai Zhang (BUPT, P.R. China); Wenbo Wang (Beijing University of Posts and Telecommunications, P.R. China)

*Performance of Spectrum-Sharing Constrained Two-Way Relaying*  
Kais Ben Fredj (INRS-EMT, University of Quebec, Canada); Sonia Aïssa (INRS, University of Quebec, Canada)

*Outage Analysis of Incremental Opportunistic Regenerative Relaying with Outdated CSI under Spectrum Sharing Constraints*  
Kamel Tourki (Texas A&M University at Qatar, Qatar); Khalid A. Qaraqe (Texas A&M University at Qatar, USA); Mohamed M. Abdallah (Texas A&M University at Qatar & Cairo University, Cairo, Qatar)
Wednesday, April 9 2014  09:00 - 10:30  
Room:  Emirgan 2

**PHY28: Delayed CSI**  
Chair: TBA  

*Outage Performance of Nth-Best Antenna Selection Diversity Systems with Co-Channel Interference and Outdated Channel Information*  
Anas M. Salhab (King Fahd University of Petroleum & Minerals, Saudi Arabia); Salam A. Zummo (KFUPM, Saudi Arabia)

*Degrees of Freedom Region of MIMO Interference Channel with Imperfect Current and Delayed CSIT*  
Yi Luo (University of Edinburgh, United Kingdom); Anastasios Papazafeiropoulos (University of Edinburgh, United Kingdom); Tharmalingam Ratnarajah (The University of Edinburgh, United Kingdom)

*Asymptotic Analysis for Dual-Hop Communication Networks with PSK and Imperfect CSI*  
Nikos C. Sagias (University of Peloponnese, Greece); Ranjan K. Mallik (Indian Institute of Technology - Delhi, India); Nikolaos D. Tselikas (University of Peloponnese, Greece)

*Delay Constrained Buffer-Aided Relaying with Outdated CSI*  
Toufiqul Islam (University of British Columbia, Canada); Diomidis S. Michalopoulos (University of Erlangen-Nuremberg & Institute for Digital Communications, Germany); Robert Schober (University of British Columbia, Canada); Vijay Bhargava (University of British Columbia, Canada)

*Selection Relaying in Coded Cooperation with Delayed CSI over Rayleigh Fading Channels*  
Jules Merlin Mouatcho Moualeu (University of the Witwatersrand, South Africa); Walaa Hamouda (Concordia University, Canada); Fambirai Takawira (University of the Witwatersrand, South Africa)

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Wednesday, April 9 2014  09:00 - 10:30  
Room:  Üsküdar 3

**PHY29: Beamforming 1**  
Chair: TBA  

*Application of Compressive Sensing in Sparse Spatial Channel Recovery for Beamforming in mmWave Outdoor Systems*  
Djamal Eddine Berraki (University of Bristol, United Kingdom); Simon Armour (University of Bristol, United Kingdom); Andrew Nix (University of Bristol, United Kingdom)
**Opportunistic Distributed Beamforming in Cognitive Radio Networks with Limited Feedback**
Chao Zhang (Beijing University of Posts and Telecommunications, P.R. China); Li Guo (Beijing University of Posts and Telecommunications, P.R. China); Ranjie Hu (Beijing University of Posts and Telecommunications, P.R. China); Jiaru Lin (Beijing University of Posts and Telecommunications, P.R. China)

**Beamforming Enhanced Multiflow HSDPA with Interference Cancellation**
Hamdi Joudeh (Imperial College London, United Kingdom); Mustafa Kubilay Gurcan (MKGSYS LTD, United Kingdom)

**Distributed Robust Beamforming in Multi-User Relay Network**
Mohammad Amin Maleki Sadr (Khaje nasir University of Technology, Iran); Sadjad Mehrizi (Khaje Nasir University Of Technology, Iran); Mahmood Ahmadian (Khaje Nasir University Of Technology, Iran)

**Coordinated Beamforming with Mixed SINR-Balancing and SINR-Target-Constraints for Multicell Wireless Networks**
Yu Wu (Loughborough University, United Kingdom); Bournaka (Loughborough University, United Kingdom); Sangarapillai Lambotharan (Loughborough University, United Kingdom)

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**Wednesday, April 9 2014  09:00 - 10:30**
**Room:  Foyer**

**PHY30: Poster 5**
**Chair: TBA**

**DFT based spatial multiplexing and maximum ratio transmission for mm-wave large MIMO**
Dinh-Thuy Phan-Huy (Orange-France Telecom, France); Antti Tölli (University of Oulu, Finland); Nandana Rajatheva (University of Oulu, Finland); Elisabeth de Carvalho (Aalborg University, Denmark)

**Performance of BICM-T Transceivers over Gaussian Mixture Noise Channels**
Muhammad Talha Malik (University of British Columbia, Canada); Md. Jahangir Hossain (Universtiy of British Columbia, Okanagan, Canada); Mohamed-Slim Alouini (King Abdullah University of Science and Technology (KAUST), Saudi Arabia)
Performance of linear precoding and user selection in IEEE 802.11ac downlink MU-MIMO system
Woochang Lim (Korea Advanced Institute of Science and Technology, Korea); Gibum Kim (Korea Advanced Institute of Science and Technology (KAIST), Korea); Jinwoo Kim (Korea Advanced Institute of Science and Technology, Korea); Hyunchol Park (KAIST, Korea); Keunmoo Lee (XRONet Corporation, Korea); Jang Hanyoung (XRONet Corporation, Korea)

Caching Gain in Wireless Networks with Fading: A Multi-User Diversity Perspective
Seyed Pooya Shariatpanahi (Institute for Research in Fundamental Sciences (IPM), Iran); Hamed Shah-Mansouri (University of British Columbia, Canada); Babak Hossein Khalaj (Sharif University of Technology, Iran)

Multiuser Pilot Pattern for Uplink Multicarrier Systems With Frequency-Dependent IQ Imbalance
Aamir Ishaque (RWTH, Aachen University Germany, Germany); Pranav K Sakulkar (RWTH Aachen, Germany); Gerd H. Ascheid (RWTH Aachen University, Germany)

A Rate Adaptive Physical Layer Network Coding Scheme: Joint Network Coding and Modulation
YiJun Guo (Beijing University of Post and Telecommunication, P.R. China); Hao Jianjun (Beijing University of Posts and Telecommunications, P.R. China); Yue Guangxin (Beijing University of Posts and Telecommunications, P.R. China)

A Constructive Interference Based Cooperative Diversity for Asynchronous Uplink OFDMA
Wahyu Pramudito (University of Manchester, United Kingdom); Emad Alsusa (Manchester University, United Kingdom)

SOA nonlinear amplification: A promising fade mitigation technique for optical wireless systems
Konstantinos Yiannopoulos (University of Peloponnese, Greece); Nikos C. Sagias (University of Peloponnese, Greece); Anthony Boucouvalas (University of Peloponnese, Greece)

Wednesday, April 9 2014  09:00 - 10:30
Room: Beylerbeyi 1

MAC13: Small Cell Networks II
Chair: TBA

Dynamic Channel Allocation and Power Control for OFDMA Femtocell Networks
Sing-Han Chen (National Chung Cheng University, Taiwan); Ting-Chao Hou (National Chung Cheng University, Taiwan)
Cross-Layer Performance of Channel Scheduling Mechanisms in Small-Cell Networks
Abdulaziz Alorainy (University of British Columbia, Canada); S Shahrear Tanzil (The University of British Columbia, Canada); Md. Jahangir Hossain (University of British Columbia, Okanagan, Canada)

Interference Mitigation in Mobile Environment through Power Adjustment in Macro and Femto cell Systems
Reben Kurda (University of Paris-Sud 11, France); Lila Boukhatem (University Paris Sud XI, France); Tara Ali Yahiya (University Paris Sud 11, France)

Exploiting Frequency and Spatial Dimensions in Small Cell Wireless Networks
Stelios Stefanatos (University of Piraeus, Greece); Angeliki Alexiou (University of Piraeus, Greece)

Energy-Efficient Capacity Offload to Smallcells with Interference Compensation
Chungang Yang (Xidian University, P.R. China); Kun Guo (Xidian University, P.R. China); Min Sheng (Xidian University, P.R. China); Jiandong Li (Xidian University, P.R. China); Yue Jian (Xidian University, P.R. China)

Wednesday, April 9 2014  09:00 - 10:30
Room:  Beylerbeyi 2

MAC14: MAC Protocols II
Chair: TBA

3M: A Multi-Group Multi-Pipeline Multi-Channel MAC Protocol for Wireless Ad Hoc Networks
Yen-Da Chen (Lunghwa University of Science and Technology, Taiwan); Shang Hui Wang (Tamkang University, Taiwan); Kuei-Ping Shih (Tamkang University, Taiwan)

Performance of Visible Light Communications with Dimming Controls
Zi Feng (University of California, Riverside, USA); George Papageorgiou (UC Riverside, USA); Qian Gao (University of California, Riverside, USA); Ahmed Fathy Atya (University of California, Riverside, USA); Srikanth V. Krishnamurthy (University of California, Riverside, USA); Gang Chen (University of California Riverside, USA)

Exploiting Capture Effect in Frameless ALOHA for Massive Wireless Random Access
Čedomir Stefanović (Aalborg University & University of Novi Sad, Denmark); Miyu Momoda (Osaka City University, Japan); Petar Popovski (Aalborg University, Denmark)
A Random Access Scheme Based on a Special Preamble for Supporting Emergency Alarms
Taehoon Kim (Korea Advanced Institute of Science and Technology, Korea); Kab Seok Ko (KAIST, Korea); Inkyu Bang (Korea Advanced Institute of Science and Technology, Korea); Dan Keun Sung (Korea Advanced Institute of Science and Technology, Korea)

A Random Access and Multiuser Detection Approach for Massive Access of Low-Complexity Machine Communications in Cellular Networks
HUsain Nizamudin (Alcatel-Lucent, Germany); André Fonseca dos Santos (Bell Labs, Alcatel-Lucent, Germany); Thorsten Wild (Alcatel-Lucent Bell Labs, Germany)

Wednesday, April 9 2014  09:00 - 10:30
Room:  Foyer

MAC15: Poster Session III
Chair: TBA

Traffic-pairing Scheme Based on Particle Swarm Optimization in Downlink CoMP-MU-MIMO System
Jian Liu (Beijing University of Posts and Telecommunications, P.R. China); Xi Li (Beijing University of Posts and Telecommunications, P.R. China); Hong Ji (Beijing University of Posts and Telecommunications, P.R. China); Yiwen Tang (Beijing University of Posts and Telecommunications, P.R. China)

Low-Complexity QoS-Aware Frequency Provisioning in Downlink Multi-User Multicarrier Systems
Amir Helmy (McGill University, Canada); Tho Le-Ngoc (McGill University, Canada)

Effect of Control and Data Frame Overheads on the Capacity Scaling of a Hierarchical Cooperation Scheme
Taehoon Kim (Korea Advanced Institute of Science and Technology, Korea); Eunmi Chu (Korea Advanced Institute of Science and Technology, Korea); Inkyu Bang (Korea Advanced Institute of Science and Technology, Korea); Seong Hwan Kim (McGill University, Canada); Dan Keun Sung (Korea Advanced Institute of Science and Technology, Korea)

Efficient Packet Recovery in Wireless Networks
Muhammad Aman (FAST-National University of Computer and Emerging Sciences, Pakistan); Biplab Sikdar (Rensselaer Polytechnic Institute, USA); Wai Chan (Rensselaer Polytechnic Institute, USA)
Inter-cell Interference Mitigation with Coordinated Resource Allocation and Adaptive Power Control
Yichao Jin (Toshiba Research Europe Ltd, United Kingdom); Fengming Cao (Toshiba Europe Research Telecommunication Lab, United Kingdom); Rudzidatul Dzuyaddin (Universiti Teknologi Malaysia, Malaysia)

Opportunistic Spectrum Sharing for Wireless Virtualization
Yang Mao (Tsinghua University, P.R. China); Yong Li (Tsinghua University, P.R. China); Jiaqiang Liu (Tsinghua University, P.R. China); Depeng Jin (Tsinghua University, P.R. China); Jian Yuan (Tsinghua University, P.R. China); Lieguang Zeng (Tsinghua University, P.R. China)

Joint Subcarrier and Power Allocation for Reciprocally-Benefited Spectrum Sharing in Cognitive Radio Networks
Dawei Wang (Xi’an Jiaotong University, P.R. China); Pinyi Ren (Xi’an Jiaotong University, P.R. China); Yichen Wang (Xi’an Jiaotong University, P.R. China)

Autonomous Uplink Intercell Interference Coordination in LTE Systems with Adaptively-tuned Interference Limits
Mai Kafafy (Cairo University, Egypt); Khaled Elsayed (Cairo University, Egypt)

Wednesday, April 9 2014  09:00 - 10:30
Room: Maçka

NET23: Sensor Networks IV
Chair: TBA

The Impact of Bandwidth Constraints on the Energy Consumption of Wireless Sensor Networks
Huseyin Cotuk (TUBITAK ULAKBIM & TOBB University of Economics and Technology, Turkey); Bulent Tavli (TOBB University of Economics and Technology, Turkey); Kemal Bicakci (TOBB University of Economics and Technology, Turkey); Mehmet Burak Akgun (University of Nevada Reno, USA)

A Mobile Anchor Assisted Localization Mechanism for Wireless Sensor Networks
Chih-Yung Chang (Tamkang University, Taiwan); Tzu-Lin Wang (Tamkang University, Taiwan); Chun-Yi Tung (Tamkang University, Taiwan)

End-to-End Delay Analysis in Wireless Sensor Networks with Service Vacation
Ibrahim Alabdulmohsin (KAUST, Saudi Arabia); Amal Hyadi (King Abdullah University of Science and Technology, Saudi Arabia); Laila Affy (King Abdullah University of Science and Technology (KAUST), Saudi Arabia); Basem Shihada (KAUST, Saudi Arabia)
Range-Free Localization Algorithm for Heterogeneous Wireless Sensor Networks
Ahmad El Assaf (INRS, Canada); Slim Zaidi (University of Quebec, INRS-EMT, Canada); Sofiene Affes (INRS-EMT, Canada); Nahi Kandil (Université du Québec en Abitibi-Temiscamingue, Canada)

Data aggregation in Wireless Sensor Networks: Compressing or Forecasting?
Jin Cui (Institut National des Sciences Appliquées de Lyon, France); Fabrice Valois (INSA Lyon, France)

Wednesday, April 9 2014 09:00 - 10:30
Room: Hamidiye

NET24: Heterogeneous Networks
Chair: TBA

Database-aided Energy Savings in Next Generation Dual Connectivity Heterogeneous Networks
Emmanuel Ternon (DOCOMO Euro-Labs, Germany); Patrick Agyapong (DOCOMO Euro-Labs, Germany); Liang Hu (DOCOMO Euro-Labs, Germany); Armin Dekorsy (University of Bremen & Institute for Telecommunications and High-Frequency Techniques, Germany)

A Decentralized Network Selection Algorithm for Group Vertical Handover in Heterogeneous Networks
Abdellaziz Walid (ENSIAS, University Mohmmed V-Souissi, Morocco); Mohamed El Kamili (LIM, Sidi Mohammed Ben Abdellah University, Fez, Morocco); Abdellatif Kobbane (ENSIAS, University Mohammed V-Souissi & ENSIAS, Morocco); Abdelfettah Mabrouk (ENSIAS, University Mohmmed V-Souissi, Morocco); Essaid Sabir (ENSEM/GREENTIC UH2C & ENSEM, Morocco); Mohammed El Koutbi (University Mohamed V - Souissi & ENSIAS, Morocco)

Classification-based Approach for Cell Outage Detection in Self-healing Heterogeneous Networks
Wenqian Xue (Beijing University of Posts and Telecommunications, P.R. China); Mugen Peng (Beijing University of Posts & Telecommunications, P.R. China); Yu Ma (Beijing University of Posts and Telecommunications, P.R. China); Hengzhi Zhang (Beijing University of Posts & Telecommunications, P.R. China)

SDoff: A Software-Defined Offloading Controller for Heterogeneous Networks
Zemre Arslan (Istanbul Technical University, Turkey); Müge Erel (Istanbul Technical University, Turkey); Yusuf Özçevik (Istanbul Technical University, Turkey); Berk Canberk (Istanbul Technical University, Turkey)
Traffic Offloading with Rate-Based Cell Range Expansion Offsets in Heterogeneous Networks  
Shi-Sheng Sun (National Taiwan University, Taiwan); Wanjiun Liao (National Taiwan University, Taiwan); Wen-Tsuen Chen (Academia Sinica, Taiwan)

Wednesday, April 9 2014 09:00 - 10:30  
Room: Yıldız 1

NET25: Network Coding  
Chair: TBA

Reliability-Constrained Broadcast using Network Coding without Feedback  
Peng Wang (University of Sydney, Australia); Guoqiang Mao (The University of Technology, Sydney, Australia); Zihui Lin (University of Sydney, Australia)

Efficient Concurrent Multipath Transfer using Network Coding in Wireless Networks  
Zhuofeng Li (Beijing University of Posts and Telecommunications, P.R. China); Changqiao Xu (Beijing University of Posts and Telecommunications, P.R. China); Jianfeng Guan (Beijing University of Posts and Telecommunications, P.R. China); Hongke Zhang (Beijing University of Posts and Telecommunications, P.R. China); Gabriel-Miro Muntean (Dublin City University, Ireland)

Compressed Network Coding: Overcome All-or-Nothing Problem in Finite Fields  
Minhae Kwon (Ewha Womans University, Korea); Hyunggon Park (Ewha Womans University, Korea); Pascal Frossard (EPFL, Switzerland)

Node Recovery Schemes for Minimizing Repair Time in Distributed Storage System with Network Coding  
Kaikai Chi (Zhejiang University of Technology, P.R. China); Zhijian Tian (Zhejiang University of Technology, P.R. China); Yi-hua Zhu (Zhejiang University of Technology, P.R. China)

A Generalized Distributed Rateless Coding Scheme for Non-Cooperative Multi-Source Transmissions  
JongHyun Baik (Korea University, Korea); Jun Heo (Korea University, Korea)
SAB07: Cognitive Radio and Sensor-Based Applications
Chair: TBA

Social Discovery using Longitudinal Spatial Smartphone Sensing
Udayan Kumar (University of Florida, USA); Ahmed Helmy (University of Florida, USA)

Incentive Mechanism for Participatory Sensing under Budget Constraints
Zheng Song (Beijing University of Posts and Telecommunications, P.R. China); Edith C.-H. Ngai (Uppsala University & Division of Computer Systems, Sweden); Jian Ma (Beijing University of Posts and Telecommunications, P.R. China); Gong Xiangyang (Beijing University of Posts and Telecommunications P.R. China, P.R. China); Yazhi Liu (Hebei United University, P.R. China); Wang Wendong (Beijing University of Posts and Telecommunications, P.R. China)

A Small Size Spectrum Sensing Prototype with Improved Robustness to Interference
Chunyi Song (National Institute of Information and Communications Technology, Japan); Kentaro Ishizu (National Institute of Information and Communications Technology, Japan); Hiroshi Harada (National Institute of Information & Communications Technology (NICT), Japan)

Sparse Dimensionality Reduction Based on Compressed Sensing
Yufang Tang (Beijing University of Posts and Telecommunications, P.R. China); Xueming Li (Beijing University of Posts and Telecommunications, P.R. China); Yan Xu (Shandong Normal University, P.R. China); Yang Liu (Beijing University of Posts and Telecommunications, P.R. China); Jizhe Wang (Beijing University of Posts and Telecommunications, P.R. China)

Sensing user selection based on energy constraints in cognitive radio networks
Maryam Monemian (Isfahan University of Technology, Iran); Mehdi Mahdavi (Isfahan University of Technology, Iran)
Wednesday, April 9 2014  11:00 - 12:30  
Room: Emirgan 1

**PHY31: Distributed and Collaborative Sensing**  
Chair: TBA

*Transient Analysis in Cognitive Radio Collaborative Spectrum Sensing*  
Seyed A Mousavifar (University of British Columbia, Canada); Cyril Leung (University of British Columbia, Canada)

*Lp -Norm Energy Combining-Based Collaborative Spectrum Sensing of Correlated Observations in Cognitive Radio Networks*  
Zahra Pourgharehkhan (Imam Khomeini International University, Iran); Abbas Taherpour (Imam Khomeini International University, Iran); Saeed Gazor (Queens University, Canada)

*Spectrum Sensing Via Reconfigurable Antennas: Is Cooperation of Secondary Users Indispensable?*  
Ahmed Alaa (Cairo University, Egypt); Mahmoud H. Ismail (Cairo University, Egypt); Hazim Tawfik (Cairo University, Egypt)

*Distributed estimation of macroscopic channel parameters in dense cooperative wireless networks*  
Monica Nicoli (Politecnico di Milano, Italy); Gloria Soatti (Politecnico di Milano, Italy); Stefano Savazzi (CNR - National Research Council of Italy & Politecnico di Milano, Italy)

*Optimum Quantization Intervals by Chernoff Information and Deflection Criterion in Distributed Sensing*  
Can Altay (Bogazici University, Turkey); Hakan Deliç (Bogazici University, Turkey)

Wednesday, April 9 2014  11:00 - 12:30  
Room: Emirgan 2

**PHY32: Resource Allocation in Relay Networks**  
Chair: TBA

Rong Ou (Beijing University of Posts and Telecommunications, P.R. China); Wenjun Xu (Beijing University of Posts and Telecommunications, P.R. China); Shengyu Li (Beijing University of Posts and Telecommunications, P.R. China); Jiaru Lin (Beijing University of Posts and Telecommunications, P.R. China)
**Power Allocation for a Hybrid Energy Harvesting Relay System with Imperfect Channel and Energy State Information**
Imtiaz Ahmed (University of British Columbia, Canada); Aissa Ikhlef (Toshiba Research Europe Limited, United Kingdom); Derrick Wing Kwan Ng (University Erlangen-Nürnberg, Germany); Robert Schober (University of British Columbia, Canada)

**Efficient Relaying Strategy Selection and Signal Combining using Error Estimation Codes**
Mohammad Taha Khan (Lahore University of Management Sciences, Pakistan); Talha Anwar (Lahore University of Management Sciences, Pakistan); Muhammad Haider (Rice University, Pakistan); Momin Uppal (Lahore University of Management Sciences, Pakistan)

**Power Optimal Allocation in Decode-and-Forward Opportunistic Relaying**
Wei Jiang (University of Duisburg-Essen, Germany); Hanwen Cao (Universität Duisburg-Essen, Germany); Thomas Kaiser (Universität Duisburg-Essen, Germany)

**Energy Efficient Design for MIMO Two-Way AF Multiple Relay Networks**
Ahmad Alsharoa (King Abdullah University of Science and Technology (KAUST), Saudi Arabia); Hakim Ghazzai (King Abdullah University of Science and Technology (KAUST) & KAUST, Saudi Arabia); Mohamed-Slim Alouini (King Abdullah University of Science and Technology (KAUST), Saudi Arabia)

**Wednesday, April 9 2014  11:00 - 12:30**
**Room: Üsküdar 3**

**PHY33: Resource Allocation in Cognitive Networks**
**Chair: TBA**

**Sum Energy-Efficiency Maximization for Cognitive Uplink Networks with Imperfect CSI**
Rindranirina Ramamonjison (University of British Columbia, Canada); Vijay Bhargava (University of British Columbia, Canada)

**Stochastic Resource Allocation for OFDMA-Based Cognitive Radios with Hybrid Spectrum Access**
Hadi Saki (King's College London & Centre for Telecommunications Research, United Kingdom); Arman Shojaeifard (University of Manchester, United Kingdom); Mohammad Shikh-Bahaei (Kings college London, United Kingdom)
Throughput Maximization for Cognitive Radio Networks Using Active Cooperation and Superposition Coding
Doha Hamza Mohamed (KAUST, Saudi Arabia); Ki-Hong Park (King Abdullah University of Science and Technology (KAUST), Saudi Arabia); Mohamed-Slim Alouini (King Abdullah University of Science and Technology (KAUST), Saudi Arabia); Sonia Aïssa (INRS, University of Quebec, Canada)

Spectrum sharing via HARQ feedback and adaptive power allocation
Behrooz Makki (Chalmers University of Technology, Sweden); Thomas Eriksson (Chalmers University of Technology, Sweden); Tommy Svensson (Chalmers University of Technology, Sweden)

Adaptive Modulation and Coding and Cooperative ARQ in a Cognitive Radio System
Jiwon Hwang (King’s College London, United Kingdom); Hadi Saki (King's College London & Centre for Telecommunications Research, United Kingdom); Mohammad Shikh-Bahaei (Kings college London, United Kingdom)

Wednesday, April 9 2014  11:00 - 12:30
Room:  Beylerbeyi 1
PHY34: Synchronization and Estimation
Chair: TBA

Interference Localization for Uplink OFDMA Systems in Presence of CFOs
Arman Farhang (CTVR Trinity College, Ireland); Arslan Majid (University of Utah, USA); Nicola Marchetti (CTVR Trinity College, Ireland); Linda Doyle (Trinity College Dublin, Ireland); Behrouz Farhang-Boroujeny (University of Utah, USA)

Blind Iterative Singular Vectors Estimation and Adaptive Spatial Loading in a Reciprocal MIMO Channel
Silvio Mandelli (Politecnico Di Milano, Italy); Maurizio Magarini (Politecnico di Milano, Italy)

A Novel Multi-Resolution Based PSD Estimation Method Based on Expectation Maximization Algorithm
Yasin Miar (University of Ottawa, Canada); Claude D’Amours (University of Ottawa, Canada); Tyseer Aboulnasr (University of British Columbia, Canada)

Light Wiener Filters for Estimation of Slowly Varying Wireless Channels
Elena Uchiteleva (The University of Western Ontario, Canada); Serguei L. Primak (The University of Western Ontario, Canada)
Scattered-Pilot Channel Estimation for GFDM
Usa Vilaipornsawai (Huawei Technologies Canada, Co. Ltd, Canada); Ming Jia (Huawei Technologies Canada Co., Ltd., Canada)

Wednesday, April 9 2014  11:00 - 12:30
Room: Foyer

PHY35: Poster 6
Chair: TBA

Regularized zero-forcing precoding with non-homogeneous user conditions
Duy H. N. Nguyen (McGill University, Canada); Tho Le-Ngoc (McGill University, Canada)

Rate-aware three phase analog network coding with low-complexity multi-antenna relay processing
Jin Soo Wang (Kyung Hee University, Korea); Seong-Ro Lee (Mokpo National University, Korea); Yun Hee Kim (Kyung Hee University, Korea)

Relay Cooperation Schemes for the Multiple Access Relay Channel: Compute-and-Forward and Successive Interference Cancellation
Zeeshan Sattar (The Hong Kong Polytechnic University, Pakistan); Jiang Yunxiang (The Hong Kong Polytechnic University & Beijing Jiaotong University, Hong Kong); Francis C.M. Lau (The Hong Kong Polytechnic University, Hong Kong)

Performance of an Asymmetric and Asynchronous Decode-and-Forward FBMC Relay System
Samantha Sriyananda (University of Jyväskylä, Finland); Nandana Rajatheva (University of Oulu, Finland)

Doppler Compensation for AF Two Way Relaying over Time Varying UWA Channels
Saed Daoud (Concordia University, Canada); Bahattin Karakaya (Qatar University & Istanbul University, Qatar); Ali Ghayeb (Texas A&M University at Qatar, Qatar)

Which is Better: One-way or Two-way Relaying with an Amplify-and-Forward Relay?
Jiachun Liao (Beijing Jiaotong University, P.R. China); Fanggang Wang (Beijing Jiaotong University, P.R. China); Dongping Yao (Beijing Jiaotong University, P.R. China); Miao Wang (Beijing Jiaotong University, P.R. China)
Dynamic Transmit-Power Control for WiFi Access Points Based on Wireless Link Occupancy
Carlos Gandarillas (Telefonica Research and Development, Spain); Carlos Martín-Engeños Pascual-Muerte (Telefonica I+D, Spain); Hector López Pombo (Quantenna Communications, Spain); Antonio G. Marques (Universidad Rey Juan Carlos, Spain)

Worst Case SINR Guarantees for Secrecy using Relay Beamforming with Imperfect CSI
Agepati Sujana (Indian Institute of Science, Bangalore, India); Sanjay Vishwakarma (Indian Institute of Science, Bangalore, India); A. Chockalingam (Indian Institute of Science, India)

Wednesday, April 9 2014 11:00 - 12:30
Room: Beylerbeyi 2

MAC16: Cognitive Radio III
Chair: TBA

Resource Allocation based on the Message Passing Algorithm in Underlay Cognitive Networks
Hossein Mani (Tarbiat Modares University, Iran); Nader Mokari (Tarbiat Modares University, Iran); Mohammad Khoshkholgh (Simula Research Laboratory, Norway); Hamid Saeedi (Tarbiat Modares University, Iran)

Performance Analysis of General Order Selection in Decentralized Cognitive Radio Networks
Mahmoud Elsaadany (University of Alberta, Canada); Tamer Khattab (Qatar University, Qatar)

Traffic Demand-based Cooperation Strategy in Cognitive Radio Networks
Zhiyu Dai (University of British Columbia, Canada); Vincent W.S. Wong (University of British Columbia, Canada)

Power Allocation for Joint Interweave and Underlay Cognitive Radio Systems with Arbitrary Input Distributions
Ahmed Sohail (University of Surrey, United Kingdom); Mohammed Al-Imari (University of Surrey, United Kingdom); Pei Xiao (University of Surrey, United Kingdom); Barry Evans (University of Surrey, United Kingdom)

Efficient Power-Aware Multi-Channel Selection for Dynamic Cognitive Radio Networks
Luca Zappaterra (The George Washington University, USA); Hyeong-Ah Choi (The George Washington University, USA)
Wednesday, April 9 2014 11:00 - 12:30
Room: Maçka

**MAC17: Cellular Networks**  
Chair: TBA

*Cell Outage Compensation for Irregular Cellular Networks*
Levent Kayili (University of Toronto, Canada); Elvino Silveira Sousa (University of Toronto, Canada)

*Energy-Efficient Power Allocation for Distributed Large-Scale MIMO Cloud Radio Access Networks*
Pei-Rong Li (National Chiao Tung University, Taiwan); Tain-Sao Chang (National Chiao Tung University, Taiwan); Kai-Ten Feng (National Chiao Tung University, Taiwan)

*Cooperative Transmission in Cloud RAN Considering Fronthaul Capacity and Cloud Processing Constraints*
Vu Nguyen Ha (INRS, University of Quebec, Canada); Long Bao Le (INRS, University of Quebec, Canada); Ngo. c-Dzung Dao (Huawei Technologies Canada Co., Ltd., Canada)

*An Effective Dynamic Programming Offloading Algorithm in Mobile Cloud Computing System*
Yanchen Liu (City University of New York, City College, USA); Myung Lee (City University of New York, City College, USA)

*Throughput and Delay Analysis of Wireless Multicast in Distributed Mobile Social Networks Based on Geographic Social Relationships*
Jie Hu (University of Southampton, United Kingdom); Lie-Liang Yang (University of Southampton, United Kingdom); Lajos Hanzo (University of Southampton, United Kingdom)

Wednesday, April 9 2014 11:00 - 12:30
Room: Hamidiye

**NET26: Sensor Networks V**  
Chair: TBA

*Cost Effective Node Deployment Strategy for Energy-Balanced and Delay-Efficient Data Collection in Wireless Sensor Networks*
Messaoud Doudou (Centre de Recherche sur l'Information Scientifique et Technique (CERIST), Algeria); Djamel Djenouri (CERIST Research Center, Algeria); Jose M. Barcelo-Ordinas (Universitat Politècnica de Catalunya (UPC), Spain); Nadjib Badache (Centre de Recherche sur l'Information Scientifique et Technique (CERIST), Algeria)
**DINAS: a Distributed NAming Service for All-IP Wireless Sensor Networks**  
Michele Amoretti (University of Parma, Italy); Olivier Alphand (Grenoble Institute of Technology, France); Gianluigi Ferrari (University of Parma, Italy); Franck Rousseau (Grenoble INP / LIG & University of Grenoble / Grenoble Informatics Laboratory, France); Andrzej Duda (Grenoble Institute of Technology, France)

**Lifetime of Asynchronous Wireless Sensor Networks with Multiple Channels and Power Control**  
Asis Nasipuri (University of North Carolina at Charlotte, USA); Amitangshu Pal (The University of North Carolina at Charlotte, USA)

**OSAP: Optimal-cluster-based Source Anonymity Protocol in Delay-sensitive Wireless Sensor Networks**  
Xiaoguang Niu (Wuhan University, P.R. China); Weijiang Feng (Wuhan University, P.R. China); Chuanbo Wei (Computer School, Wuhan University, P.R. China); Qianyuan Chen (Wuhan University, P.R. China)

**Coverage-Based Lossy Node Localization in Wireless Sensor Networks Using Chi-Square Test**  
Forrest Sheng Bao (University of Akron, USA); Wu-Jün Zhou (California State University, Fullerton, USA); Wu Jiang (Truveris Inc., USA); Chen Qian (University of Kentucky, USA)

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**Wednesday, April 9 2014  11:00 - 12:30**  
**Room:  Yıldız 1**

**NET27: Wireless Networks I**  
**Chair: TBA**

**Channel Uncertainty for AF Wireless Distributed Relay Networks under Power Constraint**  
Kanghee Lee (Wichita State University, USA); Hyuck Kwon (Wichita State University, USA); Jie Yang (Wichita State University, USA); Edwin Sawan (Wichita State University, USA); Hyuncheol Park (KAIST, Korea)

**Reliable Positioning with Hybrid Antenna Model for Aerial Wireless Sensor and Actor Networks**  
Kai Li (University of New South Wales, Australia); Mustafa İ Akbaş (University of Central Florida, USA); Damla Turgut (University of Central Florida, USA); Salil Kanhere (The University of New South Wales, Australia); Sanjay Jha (University of NSW, Australia)

**Learning Dictionary and Compressive Sensing for WLAN Localization**  
Giang Kien Nguyen (Kyung Hee University, Korea); Thang Van Nguyen (Kyung Hee University, Korea); Hyundong Shin (Kyung Hee University, Korea)
**eDOAS: Energy-Aware Device-Oriented Adaptive Multimedia Scheme for Wi-Fi Offload**
Longhao Zou (Dublin City University & Lero-The Irish Software Engineering Research Centre, Ireland); Ramona Trestian (Middlesex University, United Kingdom); Gabriel-Miro Muntean (Dublin City University, Ireland)

**Adjacent Channel Interference Aware Channel Selection for Wireless Local Area Networks**
Sarper Gokturk (AirTies Wireless Networks, Turkey); Gulden Ferazoglu (AirTies Wireless Networks, Turkey)

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**Wednesday, April 9 2014  11:00 - 12:30**
**Room: Foyer**

**NET28: Mobile and Wireless Networks Posters**
**Chair: TBA**

**A Novel Name-Based Security Mechanism for Information-Centric Networking**
Balkis Hamdane (Télécom ParisTech, France); Sihem Guemara El Fatmi (University of Cathage, Tunisia); Ahmed Serhrouchni (ENST, France)

**Designing Content-Centric Multi-hop Networking over Wi-Fi Direct on Smartphones**
Woo-Sung Jung (Ajou University, Korea); Hyochun Ahn (Ajou, Korea); Young-Bae Ko (Ajou University, Korea)

**Dynamic secret key generation for joint error control and security coding**
Trang Thi Huyen Nguyen (École Normale Supérieure de Cachan, France); Jean-Pierre Barbot (Ecole Normale Superieure de Cachan, France)

**A Comparative Cost Analysis of Identifier/Locator Split Approaches**
Nahla Abid (Orange Labs, France); Philippe Bertin (Orange Labs, France); Jean-Marie Bonnin (Institut Mines Telecom / Telecom Bretagne & IRISA, France)

**Indoor Localization using Unsupervised Manifold Alignment with Geometry Perturbation**
Khaqan Majeed (King Fahd University of Petroleum and Minerals, Saudi Arabia); Sameh Sorour (King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia); Tareq Y. Al-Naffouri (King Abdullah University of Science and Technology, USA); Shahrokh Valaee (University of Toronto, Canada)

**A Population Theory Inspired Solution to the Optimal Bandwidth Allocation for Smart Grid Applications**
Robert Webster (University of Sydney, Australia); Kumudu S Munasinghe (University of Canberra, Australia); Abbas Jamalipour (University of Sydney, Australia)
ToA Ranging using Subsample Peak Estimation and Equalizer-based Multipath Reduction
Reinhard Exel (Danube University Krems, Austria); Thomas Bigler (Danube University Krems, Austria)

Context Aware Network-Assisted Hand-off Management and Interference Mitigation Scheme for Heterogeneous Networks
Chuadhry Mujeeb Ahmed (HITEC University Taxila, Pakistan); JongWon Kim (GIST (Gwangju Institute of Science & Technology), Korea)

Optimized Super-Resolution Ranging over ToA Measurements
Omotayo O Oshiga (Jacobs University Bremen, Germany); Stefano Severi (Jacobs University Bremen, Germany); Giuseppe Abreu (Jacobs University Bremen, Germany)

Wednesday, April 9 2014  11:00 - 12:30
Room:  Yıldız 2

SAB08: Algorithms and Methods for Applications
Chair: TBA

A Path Tracking Search Algorithm Based on the Credibility of Node Service Ability
Mei Hongyan (Beijing University of Posts and Telecommunications & Liaoning University of Technology, P.R. China); Yujie Zhang (Beijing University of Posts and Telecommunications, P.R. China); Meng Xiangwu (Beijing University of Posts and Telecommunications, P.R. China)

Reinforcement Learning Method for QoE-aware Optimization of Content Delivery
Faqir Zarrar Yousaf (NEC Laboratories, Europe, Germany); Olli Mämmelä (VTT Technical Research Centre of Finland, Finland); Petteri Mannersalo (VTT Technical Research Centre of Finland, Finland)

On Common Profile Matching among Multiparty Users in Mobile D2D Social Networks
Yan-Ann Chen (National Chiao Tung University, Taiwan); Wan-Hsuan Lin (National Chiao Tung University, Taiwan); Yu-Chee Tseng (National Chiao-Tung University, Taiwan)

Predicting the Influencers on Wireless Subscriber Churn
Sara Motahari (Sprint, USA); Taeho Jung (Illinois Institute of Technology, USA); Hui Zang (Sprint, USA); Krishna Janakiraman (BandPage, USA); Xiang-Yang Li (Illinois Institute of Technology, USA); Kevin Soo Hoo (Sprint Advanced Analytics Labs, USA)
**Improving Performance of Semantic Web Services Discovery with a Hybrid Matchmaker**
Asma Adala (Sup'Com, Tunisia); Nabil Tabbane (Sup'com, Tunisia)

**Wednesday, April 9 2014  14:00 - 15:30**
**Room: Çamlıca**

**PHY36: Communication Theory**
**Chair: TBA**

**Error Exponents Analysis for Dual-hop $\eta$-$\mu$ Fading Channel with Amplify-and-Forward Relaying**
Jiang Xue (The University of Edinburgh & IDCOM, United Kingdom); Yunhan Zhang (The University of Edinburgh, United Kingdom); Md. Zahurul Islam Sarkar (The University of Edinburgh, United Kingdom); Tharmalingam Ratnarajah (The University of Edinburgh, United Kingdom)

**On the Detection of Deterministic Signals with Unknown Amplitudes over Fading Channels**
Abubakar Umar Makarfi (University of Manchester, United Kingdom); Khairi A. Hamdi (University of Manchester, United Kingdom)

**A Unified Semi-Analytical Technique to Evaluate the Distributions of Products of Non-Identically Distributed Weibull Random Variables**
Yazan H. Al-Badarneh (Texas A&M University, USA); Mahmoud A. Smadi (The Hashemite University, Jordan)

**Fundamental Properties of the EE-SE Relationship**
Zhikun Xu (China Mobile Research Institute, P.R. China); Zhengang Pan (University of Hong Kong, Hong Kong); Chih-Lin I (China Mobile Research Institute, P.R. China)

**Novel MGF-based Expressions for the Average Bit Error Probability of Binary Signalling over Generalized Fading Channels**
Ferkan Yilmaz (Vodafone Teknoloji (Oksijen Ar-Ge), Turkey); Mohamed-Slim Alouini (King Abdullah University of Science and Technology (KAUST), Saudi Arabia)
Wednesday, April 9 2014  14:00 - 15:30
Room: Emirgan 1

**PHY37: Small-cell and Multi-cell Networks**
Chair: TBA

*Cognitive Spectrum Access in Femtocell Networks Exploiting Nearest Interferer Information*
Tri Minh Nguyen (INRS-EMT, Canada); Long Bao Le (INRS, University of Quebec, Canada)

*End-to-End Downlink Power Consumption of Heterogeneous Small-Cell Networks Based on the Probabilistic Traffic Model*
Ali Riza Ekti (Texas A&M University, USA); Muhammad Zeeshan Shakir (Texas A&M University at Qatar (TAMUQ) & Dept. of Electrical and Computer Engineering, Qatar); Erchin Serpedin (Texas A&M University, USA); Khalid A. Qaraqe (Texas A&M University at Qatar, USA)

*Hierarchical Successive Stream Selection for Heterogeneous Network Interference*
Esra Aycan (İzmir Institute of Technology & İYTE, Turkey); Berna Özbek (İzmir Institute of Technology, Turkey); Didier Le Ruyet (CNAM, France)

*Energy-Efficient Power Allocation for the Downlink of a Multi-cell Multi-user MIMO System with Block Diagonalization*
Yusuf Sambo (University of Surrey & Centre for Communication Systems Research CCSR, United Kingdom); Fabien Héliot (University of Surrey, United Kingdom); Muhammad Ali Imran (University of Surrey, United Kingdom)

*On the Performance of Successive Interference Cancellation in 5G Small Cell Networks*
Nurul H. Mahmood (Aalborg University, Denmark); Luis Uzeda Garcia (Aalborg University, Denmark); Petar Popovski (Aalborg University, Denmark); Preben Mogensen (Nokia Siemens Networks, Aalborg, Denmark)

Wednesday, April 9 2014  14:00 - 15:30
Room: Emirgan 2

**PHY38: Space-time Coding for Relay Networks**
Chair: TBA

*Interference Decoding in Cellular Wireless Relay Networks with Space-Time Coding*
Antonios Argyriou (University of Thessaly & CERTH, Greece)
Distributed Space-Time Codes for Amplify-and-Forward Relaying Networks
Mohammed-Taha O. El Astal (University of Tasmania, Australia); Brian Salmon (University of Tasmania, Australia); Jan Corne Olivier (University of Tasmania, Australia)

Relay Selection on Dual Hop AF MIMO with OSTBC over Asymmetric Fading Channels
Laddu Praneeth Roshan Jayasinghe (University of Oulu, Finland); Keeth Saliya Jayasinghe Laddu (University of Oulu, Finland); Markku Juntti (University of Oulu, Finland); Matti Latva-aho (UOulu, Finland)

Distributed Space-Time Block Coding for Two-Way Wireless Relaying Networks: Improved Performance under Imperfect Synchronization
Mohammed-Taha O. El Astal (University of Tasmania, Australia); Brian Salmon (University of Tasmania, Australia); Jan Corne Olivier (University of Tasmania, Australia)

MMSE-Based Transceiver Design in Multi-user MIMO Relay Systems with Channel Correlation and Estimation Errors
Gang Liu (Beijing University of Posts and Telecommunications, P.R. China); Hong Ji (Beijing University of Posts and Telecommunications, P.R. China); F. Richard Yu (Carleton University, Canada); Yi Li (Beijing University of Posts and Telecommunications, P.R. China); Rui Wang (Beijing University of Posts and Telecommunications, P.R. China)

Wednesday, April 9 2014  14:00 - 15:30
Room: Üsküdar 3

PHY39: Beamforming 2
Chair: TBA

Downlink Beamforming Design for Cognitive Cellular Systems
Tuan Anh Le (University of Leeds, United Kingdom); Keivan Navaie (University of Leeds, United Kingdom)

Semi-dynamic Cooperative Cluster Selection for Downlink Coordinated Beamforming Systems
Dong Liu (Beihang University, P.R. China); Qian Zhang (Beihang University, P.R. China); Shengqian Han (Beihang University, P.R. China); Chenyang Yang (Beihang University, P.R. China); Gang Wang (NEC Labs, P.R. China); Ming Lei (NEC Laboratories China, P.R. China)
Cooperative Beamforming in CR Systems with Asynchronous Interferences to Multiple Primary Users
Mai Hassan (University of British Columbia, Canada); Md. Jahangir Hossain (University of British Columbia, Okanagan, Canada)

Downlink Beamforming and Power Control With Per-Antenna Power Constraints
Siduo Shen (The Chinese University of Hong Kong, Hong Kong); Tat M. Lok (The Chinese University of Hong Kong, Hong Kong)

Low-Complexity Codebook-Based Beamforming with Four Transmit Antennas and Quantized Feedback Channel
Samuel Valduga (Federal University of Santa Maria, Brazil); Dimas Alves (CPqD, Brazil); Renato Machado (Federal University of Santa Maria, Brazil); Andrei P Legg (Federal University of Santa Maria, Brazil); Murilo Bellezoni Loiola (Universidade Federal do ABC, Brazil)

Wednesday, April 9 2014 14:00 - 15:30
Room: Foyer

PHY40: Poster 7
Chair: TBA

Vector Perturbation using Signal Space Conversion Assisted Vector Ranking Algorithm
Hiromichi Tomeba (Sharp Corporation, Japan); Takashi Onodera (Sharp Corporation, Japan); Minoru Kubota (Sharp Corporation, Japan); Fumiaki Maehara (Waseda University, Japan); Fumio Takahata (Waseda University, Japan)

Optimal Spectral Efficiency for Cooperative UWB Based On-Body Area Networks
Jie Ding (Macquarie University, Australia); Eryk Dutkiewicz (Macquarie University, Australia); Xiaojing Huang (CSIRO Computational Informatics, Australia)

An Optimized First Path Detector for UWB Ranging Using Error Characteristics
Hong Cai (Beijing University of Posts and Telecommunications, P.R. China); Tiejun Lv (Beijing University of Posts and Telecommunications, P.R. China); Hui Gao (Beijing University of Posts and Telecommunications, P.R. China); Anzhong Hu (Beijing University of Posts and Telecommunications, P.R. China)

Optimization of Iterative DFE-IDMA Detection for Multipath Fading Channels
Sangar Qader (Newcastle University/UK, United Kingdom)

Distributed Recursive Energy Detection
Ahti Ainomäe (Tallinn University of Technology & KTH Royal Institute of Technology, Estonia); Tõnu Trump (Tallinn University of Technology, Estonia); Mats Bengtsson (KTH Royal Institute of Technology, Sweden)
Joint Inter-Cell Interference Coordination and Forced Cooperative Scheduling for the Downlink of LTE Systems
Ali Hooshmand (King's College London, University of London, United Kingdom); Arumugam Nallanathan (King's College London, United Kingdom); Hamid Aghvami (King's College London, United Kingdom)

An Auction Approach to Resource Allocation with Interference Coordination in LTE-A Systems
Mohammed Saad ElBamby (University of Oulu, Finland); Khaled Elsayed (Cairo University, Egypt)

Radio Resource Allocation in LTE using Utility Functions based on Moving Average Rates
Ming Li (Hamburg University of Technology, Germany); Phuong Nga Tran (Hamburg University of Technology, Germany); Dimin Wang (Hamburg University of Technology, Germany); Andreas Timm-Giel (Hamburg University of Technology, Germany)

Three Dimensional Channel Aware Scheduling in Relay-assisted Multi-cell LTE-A Downlink
Irfan Ahmed (Taif University, Saudi Arabia); Mohsin Khan (Taif University, Saudi Arabia)

Low complexity user pairing and resource allocation of heterogeneous users for uplink virtual MIMO system over LTE-A network
Jayeta Biswas (UNSW, Australia); Wei Ni (CSIRO, Australia); Ren Ping Liu (CSIRO, Australia); Iain B. Collings (CSIRO, Australia); Sanjay Jha (University of NSW, Australia)

Efficient Lookahead Resource Allocation for Stored Video Delivery in Multi-Cell Networks
Hatem Abou-zeid (Queen's University, Canada); Hossam S. Hassanein (Queen's University, Canada)
Video-Aware Relay Selection in Single-Carrier and OFDM Wireless Systems
Antonios Argyriou (University of Thessaly & CERTH, Greece); Dimitrios Kosmanos
(University of Thessaly, Greece); Leandros Tassiulas (University of Thessaly, Greece)

Utility-Based Resource Allocation for Real-Time IPTV in Wireless Networks
Sandra Scott-Hayward (Queen's University Belfast, United Kingdom); Emiliano Garcia-Palacios (Queens University Belfast, United Kingdom)

QoE Enhancement for Scalable Video over OFDMA Networks Using Interframe Scheduling
Chien-Chi Kao (National Tsing Hua University, Taiwan); Yung-Chang Lai (National Tsing Hua University, Taiwan); Shun-Ren Yang (NTHU, Taiwan)

Traffic-driven Exclusive Resource Sharing Algorithm for Mitigating Self-coexistence Problem in WRAN Systems
Haythem A. Bany Salameh (Yarmouk University, Jordan); Yaser Jararweh (Jordan University of Science and Technology, Jordan); Taimour Aldalgamouni (Jordan University of Science and Technology, Jordan); Abdallah A Khreishah (New Jersey Institute of Technology, USA)

Wednesday, April 9 2014  14:00 - 15:30
Room: Maçka

MAC20: Sensor Networks II
Chair: TBA

Fault-tolerant resource allocation in multi-hop wireless sensor networks
Jae-Seok Bang (Seoul National University, Korea); Jin-Seok Han (Seoul national university, Korea); Hyung-Sin Kim (Seoul National University, Korea); Yong-Hwan Lee (Seoul National University, Korea)

RIC-MAC: a MAC Protocol for Low-Power Cooperative Wireless Sensor Networks
Le Quang Vinh Tran (CEA/Leti - Minatec, France); Olivier Berder (IRISA, University of Rennes 1, France); Olivier Sentieys (IRISA, University of Rennes 1, France)

Network Time Synchronization for Large Multi-hop Sensor Networks using the Cooperative Analog-and-Digital (CANDI) Protocol
Yong Jun Chang (Georgia Institute of Technology, USA); Haejoon Jung (Georgia Institute of Technology, USA); Sunghwan Cho (Korea Military Academy & Republic of Korea Army, Korea); Mary Ann Weitnauer (Georgia Institute of Technology, USA)

Transmission Performance of Wireless Sensor Networks in the Presence of Co-channel Interference
Jin-Seok Han (Seoul national university, Korea); Jae-Seok Bang (Seoul National University, Korea); Yong-Hwan Lee (Seoul National University, Korea)
Cross-layer Opportunistic Forwarding to Reduce Patterned Synchronization Effect in Highly Resource Constrained WSNs
Asanka P. Sayakkara (Kyungpook National University, Korea); Dongkyun Kim (Kyungpook National University, Korea)

Wednesday, April 9 2014  14:00 - 15:30
Room: Foyer

MAC21: Poster Session IV
Chair: TBA

Scrambling Code Planning and Optimization for UMTS System
Hoda Hafez (Cairo University, Egypt); Fatama Taher (Alazhar University, Egypt); Rabie Ramadan (Cairo University, Egypt); Ayman Gaber (Vodafone, Egypt)

Compress-Forward Strategy with Non-causal Channel State Information at the Relay
Dajin Wang (Beijing Samsung Telecom R&D Center, P.R. China)

Energy-Efficient Buffer-Aided Relaying Relying on Non-Linear Channel Probability Space Division
Chen Dong (University of Southampton, United Kingdom); Jing Zuo (University of Southampton, United Kingdom); Lie-Liang Yang (University of Southampton, United Kingdom); Yongkai Huo (University of Southampton, United Kingdom); Soon Xin Ng (University of Southampton, United Kingdom); Lajos Hanzo (University of Southampton, United Kingdom)

Joint Resource Allocation in Secure Two-Way Relay Networks with QoS Guarantee and Fairness
Jun Zhao (Beijing University of Posts and Telecommunications, P.R. China); Wei Zheng (BUPT, P.R. China); Xiangming Wen (Beijing University of Posts and Telecommunications, P.R. China); Ling Zhang (BUPT, P.R. China)

Optimal Energy Allocation between Pilot and Data Symbols for Minimizing Frame Error Probability under Imperfect Fading Channel Information
Daniel Lee (Simon Fraser University, Canada); Ali Zarei Ghanavati (Simon Fraser University, Canada)
Wednesday, April 9 2014  14:00 - 15:30
Room: Hamidiye

**NET29: Mobile Networks I**
Chair: TBA

*Operator Centric Mobile Cloud Architecture*
Jacques Bou Abdo (Notre Dame University, Lebanon); Jacques Demerjian (Antonine University - UPA, Lebanon); Hakima Chaouchi (Telecom Sud Paris, France); Kablan Barbar (Lebanese University, Lebanon); Guy Pujolle (University Pierre et Marie Curie - Paris 6, France)

*Effective Transceiver Selection for Mobile Multi-Directional Free-Space-Optical Modules*
Abdullah Sevincer (University of Nevada, Reno, USA); Murat Yuksel (University of Nevada - Reno, USA)

*A Quality Driven Framework for Adaptive Video Streaming in Mobile Wireless Networks*
Mirghiasaldin Seyedebrahimi (Aston University, United Kingdom); Xiaohong Peng (Aston University, United Kingdom); Rob Harrison (Research In Motion, United Kingdom)

*Using Mobile Relays As Connectivity Catalyst for Highly Mobile Networks*
Yang Xia (Nanyang Technological University, Singapore); Chai Kiat Yeo (Nanyang Technological University, Singapore)

*Multi-parameter Decision Algorithm for Mobile Computation Offloading*
Jessica Oueis (CEA-LETI & University of Grenoble, France); Emilio Calvanese Strinati (CEA-LETI, France); Sergio Barbarossa (University of Rome, Italy)

Wednesday, April 9 2014  14:00 - 15:30
Room: Yıldız 1

**NET30: Wireless Networks II**
Chair: TBA

*Session State Aware Handover Procedure for VoIP Sessions in Heterogeneous Wireless Networks*
Mohamed Ammar Al Masri (University of Calgary, Canada); Abu B Sesay (University of Calgary, Canada); Abraham O Fapojuwo (University of Calgary, Canada)
A novel background subtraction for intelligent surveillance in wireless network
Changqing Yin (Tongji University, P.R. China); Yuanqing Luo (Tongji University, P.R. China); Daqiang Zhang (Tongji University & Department of Software Engineering, P.R. China)

Fuzzy Channel Ranking estimation in Cognitive Wireless Networks
Sylwia Romaszko (RWTH Aachen University, Germany); Petri Mähönen (RWTH Aachen University, Germany)

TCP-friendly CMT-based Multimedia Distribution over Multi-homed Wireless Networks
Yuanlong Cao (Beijing University of Posts and Telecommunications, P.R. China); Changqiao Xu (Beijing University of Posts and Telecommunications, P.R. China); Jianfeng Guan (Beijing University of Posts and Telecommunications, P.R. China); Hongke Zhang (Beijing Jiaotong University, P.R. China)

Interference-Aware Multicast for Wireless Multihop Networks
Daniel Lertpratchya (Georgia Institute of Technology, USA); Douglas Blough (Georgia Institute of Technology, USA); George Riley (Georgia Institute of Technology, USA)

Wednesday, April 9 2014  14:00 - 15:30
Room: Yıldız 2

SAB09: Applications to Smart Grid and Wireless Sensor Networks
Chair: TBA

Adaptive Low Power Detection of Sparse Events in Wireless Sensor Networks
Ahmed Al Wakeel, Eng (Port Said University, Egypt); Mohamed F. Abdelkader (Port Said University, Egypt); Karim G Seddik (American University in Cairo & Alexandria University, Egypt); Atef Ghuniem (Suez Canal University, Egypt)

Tuning Guaranteed Time Slots of IEEE 802.15.4 for Transformer Health Monitoring in the Smart Grid
Irfan S. Al-Anbagi (University of Ottawa, Canada); Melike Erol-Kantarci (University of Ottawa, Canada); Hussein T Mouftah (University of Ottawa, Canada)

An Improved Privacy Solution for the Smart Grid
Mohamad Badra (Zayed University, UAE); Sherali Zeadally (University of Kentucky, USA)

Enterprise Integration of Smart Objects using Semantic Service Descriptions
Matthias Thoma (SAP Switzerland Inc. & SAP Research, Switzerland); Torsten Ingo Braun (University of Bern, Switzerland); Carsten Magerkurth (SAP Switzerland Inc., Switzerland)
Wireless Gas Sensing in South African Underground Platinum Mines
Adnan Abu-Mahfouz (CSIR Meraka Institute, South Africa); Sherrin Isaac (CSIR Meraka Institute, South Africa); Carel Kruger (CSIR Meraka Institute, South Africa); Niels Aakvaag (SINTEF, Norway); Britta Fismen (GasSecure AS, Norway)

Wednesday, April 9 2014  16:00 - 17:30
Room: Çamlıca

PHY41: OFDM Optimization
Chair: TBA

SOCP Approaches to Joint Subcarrier Allocation and Precoder Design for Downlink OFDMA Systems
Dan Nguyen (University of Oulu & Centre for Wireless Communications, Finland); Le-Nam Tran (University of Oulu & Centre for Wireless Communications, Finland); Pekka Pirinen (University of Oulu, Finland); Matti Latva-aho (UOulu, Finland)

Coordinated Resource Allocation with Fractional Frequency Reuse for Downlink OFDMA Networks
Weidong Zhang (Beijing University of Posts and Telecommunications & Wireless Technology Innovation Institute, P.R. China); Ying Wang (Beijing University of Posts and Telecommunications, P.R. China); Peilong Li (BUPT, P.R. China)

Energy-Efficient Power Loading Algorithms for Uniform-Rate OFDM Systems
Chun-Ying Ma (National Chiao Tung University, Taiwan); Chia-chi Huang (Chiao Tung University Taiwan, Taiwan)

Joint Resource Optimization for OFDMA Cellular Networks with User Cooperation and QoS Provisioning
Roya Arab Loodaricheh (University of British Columbia, Canada); Shankhanaad Mallick (University of British Columbia, Canada); Vijay Bhargava (University of British Columbia, Canada)

Novel Algorithms for Optimal Waveforms Design in Multicarrier Systems
Fatma Abdelkafi (High School of Communications of Tunis (SUPCOM), Tunisia); Mohamed Siala (Sup‘Com, Tunisia)
Wednesday, April 9 2014  16:00 - 17:30
Room:  Emirgan 1

PHY42: MIMO Communications
Chair: TBA

**Generalized Likelihood Ratio Test Multiple-Symbol Detection for MIMO-UWB: A Semidefinite Relaxation Approach**
Chanfei Wang (Beijing University of Posts and Telecommunications, P.R. China); Tiejun Lv (Beijing University of Posts and Telecommunications, P.R. China); Hui Gao (Beijing University of Posts and Telecommunications, P.R. China); Anzhong Hu (Beijing University of Posts and Telecommunications, P.R. China)

**Low-complexity Sorted QR Decomposition for MIMO Systems Based on Pairwise Column Symmetrization**
Tae-Hwan Kim (Korea Aerospace University, Korea)

**Rate Maximization in Coupled MIMO Systems: A Generic Algorithm For Designing Single-Port Matching Networks**
Yahia Hassan (ETH Zurich, Switzerland); Armin Wittneben (ETH Zurich, Switzerland)

**Low Complexity Millimeter-Wave LOS-MIMO Precoding Systems for Uniform Circular Arrays**
Liang Zhou (Fujitsu Laboratories Ltd., Japan); Yoji Ohashi (Fujitsu, Japan)

**New Balanced Linear Transceiver Designs for a MIMO Interfering Broadcast Channel**
Chiao-En Chen (National Chung-Cheng University, Taiwan); Jia-Jang Liou (National Chung Cheng University, Taiwan)

Wednesday, April 9 2014  16:00 - 17:30
Room:  Emirgan 2

PHY43: Relay Networks
Chair: TBA

**Effect of CCI and Feedback Delay on the Multi-antenna AF Relaying over Asymmetric Fading Channels**
Laddu Praneeth Roshan Jayasinghe (University of Oulu, Finland); Keeth Saliya Jayasinghe Laddu (University of Oulu, Finland); Markku Juntti (University of Oulu, Finland); Matti Latva-aho (UOoulu, Finland)
**SNR-based Antenna Selection Schemes for Cooperative Relay Networks in Wireless Channels**
Erdoğan Aydın (University of Maltepe, Turkey); Haci Ilhan (Yildiz Technical University, Turkey); Özgür Özdemir (Selcuk University, Turkey)

**Soft Information Forwarding Design for a Two-Way Relaying Channel**
Jin Xu (ZTE, P.R. China); Jun Li (University of Sydney, Australia); Zihuai Lin (University of Sydney, Australia); Branka Vucetic (The University of Sydney, Australia)

**Hybrid Anti Error Propagation Strategies in Noncoherent Cooperative Wireless Networks**
Özgür Özdemir (Selcuk University, Turkey)

**Superposition Transmission of Layered Encoded Sources over Non-Orthogonal Amplify-Forward Relay Networks**
Payam Padidar (University of Waterloo, Canada); Pin-Han Ho (University of Waterloo, Canada); James Ho (University of Waterloo, Canada)

Wednesday, April 9 2014 16:00 - 17:30
Room: Üsküdar 3

**MAC22: Relaying in Wireless Networks**
Chair: TBA

**Efficiency and Coverage Improvement of Active RFID Two-Hop Relay Systems**
Alireza Eshraghi (University of Hawaii at Manoa, USA); Behrouz Maham (University of Tehran, Iran); Zhu Han (University of Houston, USA); Morteza Banagar (University of Tehran, Iran)

**Hierarchical Mesh Tree Protocol for Efficient Multi-hop Data Collection**
Verotiana Rabarijaona (National Institute of Information and Communication Technology, Japan); Fumihide Kojima (National Institute of Information and Communications Technology, Japan); Hiroshi Harada (National Institute of Information & Communications Technology (NICT), Japan)

**Effective Capacities of Dual-Hop Networks with Relay Selection**
Khoa Tran Phan (McGill University, Canada); Tho Le-Ngoc (McGill University, Canada)

**Load Dependent Dynamic Path Selection in Multi-Radio Hybrid Wireless Mesh Networks**
Raja Farrukh Ali (National University of Sciences and Technology, Pakistan); Dr. Adnan Kiani (School of Electrical Engineering and Computer Sciences - NUST, Pakistan); Asad Pirzada (National University of Sciences and Technology, Pakistan)
Distributed Data Aggregation in Machine-to-Machine Communication Networks Based on Coalitional Game
Siavash Bayat (University of Sydney, Australia); Yonghui Li (University of Sydney, Australia); Zhu Han (University of Houston, USA); Mischa Dohler (King’s College London, United Kingdom); Branka Vucetic (The University of Sydney, Australia)

Wednesday, April 9 2014  16:00 - 17:30
Room:  Beylerbeyi 1

MAC23: Cognitive Radio IV
Chair: TBA

Sensing-Delay Tradeoff for a Relay-Assisted Cognitive Link
Ahmed Sultan (Alexandria University, Egypt)

On the Estimation of Channel State Transitions for Cognitive Radio Systems
Ankit Kaushik (Karlsruhe Institute of Technology, Germany); Friedrich K. Jondral (Karlsruhe Institute of Technology, Germany)

AND: Asynchronous Neighborhood Discovery protocols for opportunistic Cognitive Wireless Networks
Sylwia Romaszko (RWTH Aachen University, Germany); Wim Torfs (University of Antwerp - iMinds, Belgium); Petri Mähönen (RWTH Aachen University, Germany); Chris Blondia (University of Antwerp, Belgium)

A Feedback- Soft Sensing-Based Cognitive Access Scheme with Feedback Erasures
Ahmed M. Arafa (University of Maryland College Park, USA); Karim G Seddik (American University in Cairo & Alexandria University, Egypt); Ahmed Sultan (Alexandria University, Egypt); Tamer ElBatt (Faculty of Engineering, Cairo University & WINC, Nile University, Egypt); Amr El-Sherif (Alexandria University, Egypt)

Cooperative Coarse Spectrum Sensing for Cognitive Radio Sensor Networks
Ozgur Ergul (Koc University, Turkey); Ozgur B. Akan (Koc University, Turkey)

Wednesday, April 9 2014  16:00 - 17:30
Room:  Beylerbeyi 2

NET31: Sensor Networks VI
Chair: TBA
**GDVFA: A Distributed Algorithm Based on Grid and Virtual Forces for the Redeployment of WSNs**  
Saoucene Mahfoudh (INRIA, France); Ines Khoufi (INRIA, France); Pascale Minet (INRIA, France); Anis Laouiti (TELECOM SudParis, France)

**Minimizing Transmit Power Consumption in Multi-level WSNs for Environmental Monitoring**  
Babak Behsaz (University of Alberta, Canada); Mike H. MacGregor (University of Alberta, Canada)

**Efficient User and Broadcast Authentication Scheme for WSNs**  
Amerah Alabrah (University of Central Florida, USA); Mostafa Bassiouni (University of Central Florida, USA)

**A Lightweight White-box Symmetric Encryption Algorithm against Node Capture for WSNs**  
Yang Shi (Tongji University, P.R. China); Zongjian He (Tongji University, P.R. China)

**Acoustic Sensor Network Relative Self-Calibration using Joint TDOA and DOA with Unknown Beacon Positions**  
Malik Aqeel Anwar (University of Engineering and Technology Lahore, Pakistan); Hammad Hassan (University of Engineering and Technology Lahore, Pakistan); Hasan Maqbool (University of Engineering and Technology Lahore, Pakistan); Akif Rehman (University of Engineering and Technology, Lahore, KSK Campus, Pakistan); Muhammad Tahir (University of Engineering and Technology Lahore, Pakistan)

**Wednesday, April 9 2014  16:00 - 17:30**  
**Room: Maçka**

**NET32: Wireless Networks III**  
**Chair: TBA**

**A Dynamic Load-Balancing Scheme for Heterogeneous Wireless Networks**  
Shiao-Li Tsao (National Chiao Tung University, Taiwan); Chen-Wei Wang (National Chiao Tung University, Taiwan); Yun-Ciou Lin (National Chiao Tung University, Taiwan); Ray-Guang Cheng (National Taiwan University of Science and Technology, Taiwan)

**Achievable Throughput of Wireless Networks with Local Traffic**  
Seyed Pooya Shariatpanahi (Institute for Research in Fundamental Sciences (IPM), Iran); Babak Hossein Khalaj (Sharif University of Technology, Iran); Hamed Shah-Mansouri (University of British Columbia, Canada)
**Link Quality Aware and Content Centric Data Aggregation in Lossy Wireless Networks**
Yichao Jin (Toshiba Research Europe Ltd, United Kingdom); Sedat Gormus (Toshiba Research Europe Ltd., United Kingdom); Parag Kulkarni (Toshiba Research Europe Ltd., United Kingdom); Mahesh Sooriyabandara (Toshiba Research Europe Limited, United Kingdom)

**An Empirical Evaluation of Bufferbloat in IEEE 802.11n Wireless Networks**
Ahmad Showail (KAUST, Saudi Arabia); Kamran Jamshaid (KAUST, Saudi Arabia); Basem Shihada (KAUST, Saudi Arabia)

**Adaptive Radio Resource Allocation to Optimize Throughput in Multi-cell Energy Harvesting Wireless Networks**
Lei Li (Beijing University of posts & Telecommunications, P.R. China); Mugen Peng (Beijing University of posts & Telecommunications, P.R. China); Jiamo Jiang (Beijing University of Posts and Telecommunications, P.R. China); Kecheng Zhang (Beijing University of Posts and Telecommunication, P.R. China); Hao Jin (Beijing University of Posts and Telecommunications & Wireless Signal Processing and Network Laboratory, P.R. China); Zhiguo Ding (Newcastle University, United Kingdom)

Wednesday, April 9 2014  16:00 - 17:30
Room:  Hamidiye

**NET33: Performance Analysis and Evaluation**
Chair: TBA

**QoS-Aware Data Transmission and Wireless Energy Transfer: Performance Modeling and Optimization**
Dusit Niyato (Nanyang Technological University, Singapore); Ping Wang (Nanyang Technological University, Singapore); Wai-Leong Yeow (Institute for Infocomm Research, Singapore); Hwee Pink Tan (Institute for Infocomm Research, Singapore)

**On the Performance of Asynchronous TCP Connections to Wireless Sensor Network over WiFi**
Kemal Serdaroglu (Yeditepe University & Institute of Natural Sciences, Turkey); Sebnem Baydere (Yeditepe University, Turkey)

**On the Performance of Fixed-Gain Amplify-and-Forward Dual-Hop Relaying in Wireless Networks with Beamforming**
Osamah S. Badarneh (University of Tabuk, Saudi Arabia)

**Experimental Performance Analysis of Two-Hop Aerial 802.11 Networks**
Evsen Yanmaz (University of Klagenfurt & Lakeside Labs, Austria); Samira Hayat (University of Klagenfurt & Mobile Systems Group, Austria); Juergen Scherer (University of Klagenfurt, Austria); Christian Bettstetter (University of Klagenfurt, Austria)
Performance Evaluation of an RSSI Based Localization Scheme for Wireless Sensor Networks to Mitigate Shadowing Effects
Asis Nasipuri (University of North Carolina at Charlotte, USA); Ndubueze O Chuku (The University of North Carolina at Charlotte, USA)

Wednesday, April 9 2014  16:00 - 17:30
Room: Yıldız 1

NET34: Mobile Networks II
Chair: TBA

Mobility Management in Optical Mobile Network
Qing Wei (DoCoMo Eurolabs, Germany); Mikhail Vilgelm (TUM, Germany); Matthias Lott (DOCOMO Communications Laboratories Europe GmbH, Germany); Wolfgang Kellerer (Technische Universität München, Germany)

Improved Privacy-Preserving Authentication Scheme for Roaming Service in Mobile Networks
Ding Wang (Peking University & Automobile Sergeant Institute of PLA, P.R. China); Ping Wang (Peking University, P.R. China); Jing Liu (Peking University, P.R. China)

Green Resource Sharing for Mobile Device-to-Device Communications
Yueming Cai (Institute of Communications Engineering, PLAUST, P.R. China); Dan Wu (Institute of Communications Engineering, PLAUST, P.R. China); Liang Zhou (Nanjing University of Posts and Telecommunications, P.R. China)

Self-Organizing Node Deployment Based on Virtual Spring Mesh for Mobile Wireless Sensor Network
Chika Sugimoto (Yokohama National University, Japan); Sumihiko Natsu (Yokohama National University, Japan)

Maintaining A Free-Space-Optical Communication Link Between Two Autonomous Mobiles
Mahmudur Khan (University of Nevada, Reno, USA); Murat Yuksel (University of Nevada - Reno, USA)
SAB10: Internet of Things  
Chair: TBA

MoT: A Collaborative Network Troubleshooting Platform for the Internet of Things
Kyung Hwa Kim (Columbia University, USA); Hyunwoo Nam (Columbia University, USA); Jin Hyung Park (Columbia University & Fancy, USA); Henning Schulzrinne (Columbia University, USA)

Trust Management for Service Composition in SOA-based IoT Systems
Ing-Ray Chen (Virginia Tech, USA); Jia Guo (Virginia Tech, USA); Fenye Bao (Virginia Tech, USA)

SPDY Multiplexing Approach on Long-latency Links
Ahmed Said Abdel Salam (University of Rome Tor Vergata, Italy); Michele Luglio (University of Rome Tor Vergata - Dip. Ing. Elettronica, Italy); Cesare Roseti (University of Rome Tor Vergata, Italy); Francesco Zampognaro (University of Rome Tor Vergata, Italy)

Preserving Location Privacy based on Distributed Cache Pushing
Ming Chen (Nanjing University, P.R. China); Wenzhong Li (Nanjing University, P.R. China); Zhuo Li (Nanjing University, P.R. China); Sanglu Lu (Nanjing University, P.R. China); Daoxu Chen (Nanjing University, P.R. China)

PIPeR: Impact of Power-Awareness on Social-Based Opportunistic Advertising
Soumaia A. Al Ayyat (The American University in Cairo, Egypt); Sherif Aly (American University in Cairo, Egypt); Khaled A. Harras (Carnegie Mellon University, USA)