



IEEE IWCMC 2011
Technical Program at a
Glance
Istanbul, Turkey
July 4 - 8, 2011



DATE	TIME	ROOM				
July 4, 2011 (Monday) TUTORIALS	9:00-12:00	A-101		Cinema		A-102
		T1 (IWCMC): Cognitive Radio and Adaptive Wireless Comm. Systems Presenter: Huseyin Arslan, Univ of South Florida, USA		T5 (HPCS): TBA Presenter: TBA		T2 (IWCMC): Vehicular Ad-Hoc Network Architecture and Design Issues, Protocol Standards and Future Presenter: Ty Znati, Univ. of Pittsburgh
	12:00-13:30	LUNCH BREAK (Cafeteria Room and Garden)				
	13:30-16:30	T3 (IWCMC): Vehicle to Grid (V2G) Communications Presenter: Ziyad Salameh, Univ. of Massachusetts, USA		T6 (HPCS): TBA Presenter: TBA		T4 (IWCMC): Cognitive & Cooperative Cars (CCC) Presenter: Sharokh Valaee, Univ. of Toronto, Canada
	19:00-20:00	FREE TIME				
July 5, 2011 (Tuesday) SESSIONS		Conference Hall	A-101	A-102	Cinema	A-103, A-104, A-105, A-207
	8:00-8:30	WELCOME & OPENING				
	8:30-10:00	KEYNOTE 1 (HPCS): Rick L. Stevens, University of Chicago, USA TITLE: High-Performance Computing & Biology: The Quest for A Predictive Biological Theory				
	10:00-10:30	Coffee Break (Building C, First Floor)				
	10:30-12:30	TM-1	TM-2	TM-3	TM-4	TM-5,6,7,8
	12:30-13:30	LUNCH BREAK (Cafeteria Room and Garden)				
	13:30-15:30	TA-1	TA-2	TA-3	TA-4	TA-5,6,7,8
	15:30-16:00	Coffee Break (Building C, First Floor)				
	16:00-18:00	TA-6	TA-7	TA-8	TA-9	TA-10,11,12,13,14,15,16
	19:00-21:00	WELCOME RECEPTION—Bosphorus Cruise				
July 6, 2011 (Wednesday) SESSIONS	8:30-10:00	KEYNOTE 2: Mario Gerla, University of California Los Angeles, USA TITLE: Vehicular Communications: From Urban Sensing to Traffic Control and Games				
	10:00-10:30	Coffee Break (Building C, First Floor)				
	10:30-12:30	WM-1	WM-2	WM-3	WM-4	WM-5,6,7,8
	12:30-13:30	LUNCH BREAK (Cafeteria Room and Garden)				
	13:30-15:30	WA-1	WA-2	WA-3	WA-4	WA-5,6,7,8
	15:30-16:00	Coffee Break (Building C, First Floor)				
	16:00-18:00	WA-6	WA-7	WA-8	WA-9	WA-10,11,12,13,14,15,16
	19:00-21:00	DINNER BANQUET—Garden Terrace-Bahcesehir University				
July 7, 2011 (Thursday) SESSIONS	8:30-10:00	KEYNOTE 3: Sajal Das, NSF & University of Texas at Arlington, USA TITLE: Cyber-Physical and Networked Sensor Systems: Challenges and Opportunities				
	10:00-10:30	Coffee Break (Building C, First Floor)				
	10:30-12:30	ThM-1	ThM-2	ThM-3	ThM-4	ThM-5,6,7
	12:30-13:30	LUNCH BREAK (Cafeteria Room and Garden)				
	13:30-15:30	ThA-1	ThA-2	ThA-3	ThA-4	ThA-5,6,7
	15:30-16:00	Coffee Break (Building C, First Floor)				
	16:00-18:00	ThA-6	ThA-7	ThA-8	ThA-9	ThA-10,11,12,13,14
July 8, 2011 (Friday)	Visits to Historical Sites in Istanbul (All Day)—details are given at the end of the program below					



Technical Program
IEEE IWCMC 2011
Istanbul, Turkey,
July 4 - 8, 2011
Monday, July 4, 2011



Registration: (8:30 am - 5:00 pm)

Room: Building C, First Floor

Tutorial 1 (IWCMC): (9:00-12:00)

Room: A-101

Title: Cognitive Radio and Adaptive Wireless Communication Systems

Presenter: Huseyin Arslan, University of South Florida, USA

Tutorial 2 (IWCMC): (9:00-12:00)

Room: A-102

Title: Vehicular Ad-Hoc Network (VNAT)– Architecture and Design Issues, Protocol Standards and Future

Presenter: Ty Znati, University of Pittsburgh, USA

COFFE BREAK (10:30 – 10:45) — Building C, First Floor

Tutorial (HPCS): (9:00-12:00)

Room: TBA

Title: TBA

Presenter: TBA

LUNCH (12:00 – 13:30) — Cafeteria Room and Garden (Ground Floor)

Tutorial 3 (IWCMC): (13:30-16:30)

Room: A-101

Title: Vehicle to Grid (V2G) Communications

Presenter: Ziyad Salameh, University of Massachusetts, USA

Tutorial 4 (IWCMC): (13:30-16:30)

Room: A-102

Title: Cognitive & Cooperative Cars (CCC)

Presenter: Sharokh Valaee, University of Toronto, Canada

COFFE BREAK (15:15 – 15:30) — Building C, First Floor

Tutorial (HPCS): (13:30-16:30)

Room: TBA

Title: TBA

Presenter: TBA

19:00 —FREE EVENING

Open Time: Ortakoy Disctrict

Hosts: Nizamettin Aydin (Yildiz Technical University, Istanbul, Turkey)

Yalcin Cekic (Bahcesehir University, Istanbul, Turkey)



Technical Program
IEEE IWCMC 2011
Istanbul, Turkey,
July 4 - 8, 2011
Tuesday, July 5, 2011



Registration: (7:30 am - 5:00 pm)

Room: Building C, First Floor

Opening Session: (8:00-8:30)

Room: Fazil Say Conference Hall

Speaker: Conference Chairs

KEYNOTE 1—HPCS (8:30-10:00)

Room: Fazil Say Conference Hall

Speaker: Rick L. Stevens, University of Chicago, USA

Title: High-Performance Computing & Biology: The Quest for a Predictive Biological Theory

Chair: Okan Erdogan, UYBHM and Istanbul Teknik University, Istanbul, Turkey

COFFE BREAK (10:00 – 10:30) — Building C, First Floor

Tuesday Morning Sessions (TM)—(10:30 - 12:30)

TM-1: Room: A-202

Session Title: Invited Papers

Session Chair: Hamid Sadjadpour, University of California, Santa Cruz, USA

1569400309: Outage Optimum Routing for Wireless Networks,

B. Amiri; H. Sadjadpour; J. Garcia-Luna-Aceves (University of California at Santa Cruz, USA)

1569391591: Localized Delay-bounded and Energy-efficient Data Aggregation in Low-traffic Request-driven Wireless Sensor and Actor Networks, *C. Xu (University of Ottawa, Canada); X. Li (University of Waterloo, Canada); A. Nayak; I. Stojmenovic (University of Ottawa, Canada)*

1569441491: Design and Experimentation of Rate Adaptation for IEEE 802.11n WLANs,

M. Hamdi (Hong Kong University of Science and Technology, P.R. China)

1569440915: Effect of Feedback Loss on Instantly Decodable Network Coding,

S. Sorour; S. Valaee (University of Toronto, Canada)

TM-2: Room: A-101

Session Title: Wireless Mesh Networks (Wireless Networking Symp.)

Session Chair: Lyes Khoukhi University of Technology of Troyes, France

Session Co-Chair: Muhammad Ali Imran University of Surrey, United Kingdom

1569380055: The Efficiency-Collision Tradeoff with Adaptive CSMA/CA in Wireless Mesh Networks

M. Kurth and J-P Redlich (Humboldt University Berlin, DE)

1569389647: Connectivity in Multi-Channel Multi-Interface Wireless Mesh Networks

C. De Oliveira (Grenoble Informatics Laboratory, FR), F. Theoleyre (CNRS - University of Strasbourg, FR), A. Duda (Grenoble Institute of Technology, FR)

1569404833: Traffic Adaptation in Wireless Mesh Networks: Fuzzy-based Model; *L. Khoukhi and A. El Masri (University of Technology of Troyes, FR), A. Sardouk (Troyes University of Technology (UTT), FR), A. Hafid (University of Montreal, CA), D. Gaiti (University of Technology of Troyes, FR)*

1569391107: An Automatic Mesh Scheme for IEEE 802.11 Wireless Mesh Networks

Tseng Hsueh-Wen (Industrial Technology Research Institute, TW), Chuang Yue-Ru (Fu Jen Catholic University, TW)

Shiann-Tsong Sheu (National Central University, TW)

1569404977: MBP: Routing Metric Based on Probabilities for Multi-radio Multi-channel Wireless Mesh Networks, *M. Boushaba and A. Hafid, Y. Sarr (University of Montreal, CA)*

TM-3: Room: A-102**Session Title:** Topology Control and Localization (Wireless Sensor Networks Symposium)**Session Chair:** Murat Demirbas, University at Buffalo, SUNY, USA**Co-chair:** Nidal Nasser, University of Guelph, Canada

1569391539: TALS: Trigonometry-based Ad-hoc Localization System for Wireless Sensor Networks, Z. Merhi (*Lebanese Intern. University, Lebanon*); M. Elgamel (*Arab Academy for Science, Egypt*); R. Ayoubi (*Univeristy of Balamand, Lebanon*); M. Bayoumi (*University of Louisiana at Lafayette, USA*)

1569404369: Optimal Placement of Heterogeneous Wireless Sensor and Relay Nodes, Tamer Deyab; U. Baroudi; S. Selim (*King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia*)

1569404511: A Localized Cooperative Wideband Spectrum Sensing for Dynamic Access of TV Bands Using RF Sensor Networks, Aquil Mirza Mohammed; Mohamed-Slim Alouini (*KAUST, Saudi Arabia*)

1569404639: Phase Synchronization Algorithms for Distributed Beamforming with Time Varying Channels in Wireless Sensor Networks, I. Thibault; G. Corazza; L. Deambrogio (*University of Bologna, Italy*)

1569404641: A Distributed Swarm-Intelligent Localization for Sensor Networks with Mobile Nodes, P. Ekberg; E. C.-H. Ngai (*Uppsala University, Sweden*)

1569413317: Optimistic Concurrency Control for Multihop Sensor Networks, O. Soysal (*Google Inc., USA*); B. Aydin; M. Demirbas (*University at Buffalo, SUNY, USA*)

TM-4: Room: Cinema**Session Title:** Heterogeneous Networks (Wireless Networking Symp.)**Session Chair:** Omer Bulakci, Nokia Siemens Networks Radio Systems, DE

1569403995: QoE-aware Vertical Handover in Wireless Heterogeneous Networks K. Piamrat (*Technicolor, FR*), A. Ksentini (*University of Rennes1, FR*), C. Viho (*IRISA/INRIA Rennes, FR*), J.-M. Bonnin (*Telecom Bretagne, FR*)

1569404541: HaVe-2W3G: A Vertical Handoff Solution between WLAN, WiMAX and 3G Networks A. Blaise (*Mohamed V Souissi University, Rabat, MA*), M. Erradi, B. Yahya (*ENSIAS, MA*), A. Berqia (*Universidade do Algarve, PT*), M. Charaf Akalay (*Meditel, MA*)

1569404591: A Novel Channel Handover Strategy to Improve the Throughput in Cognitive Radio Networks, B. Kahraman, Feza Buzluca (*Istanbul Technical University, TR*)

1569404219: The Devolution Effects of Flat Fading on Connected Wireless Networks under Shadowing Amar Kabashi (*University of Leeds, UK*) Jaafar Elmighani (*University of Leeds, UK*)

1569404637: Impact of Preconditioning on the Convergence of Numerical Co-channel Interference Approximations in Heterogeneous Networks; O. Bulakci (*Nokia Siemens Networks Radio Systems, DE*), J. Hämäläinen (*Helsinki University of Technology, FI*), A. Bou Saleh (*Aalto University, DE*), S. Redana (*Nokia Siemens Networks, DE*), B. Raaf (*Nokia Siemens Networks, DE*)

TM-5: Room: A-103**Session Title:** MIMO (Communication and Information Theory Symp.)**Session Chair:** Omer Ileri, Tubitak, UEKAE, Turkey**Session Co-Chair:** Hüseyin Arslan, University of Southern Florida, USA

1569387491: Achieving Exponential Diversity with Partial Channel State Information in MIMO Fading channels, Mohammed Zafar Ali Khan (*Indian Institute of Technology, Hyderabad, India*)

1569390041: Performance of Combined Transmit Antenna Selection and Maximal-Ratio Transmission in Nakagami-m Fading Channels, Ahmet Coskun; Oguz Kucur (*Gebze Institute of Technology, Turkey*)

1569392751: A Reduced Quantization Range Feedback Method for Time-Varying MIMO Systems, Bruhtesfa E. Godana; Torbjorn Ekman (*Norwegian University of Science and Technology, Norway*)

1569404441: On the Power and Offset Allocation for Rate Adaptation of Spatial Multiplexing in Optical Wireless MIMO Channels, Ki-Hong Park; Young-Chai Ko (*Korea University, Korea*); Mohamed-Slim Alouini (*KAUST, Saudi Arabia*)

1569404079: Reduced Complexity Sphere Decoding, B. Li; E. Ayanoglu (*U. of California, Irvine, USA*)

1569404083: Reduced Complexity Decoding for Bit-Interleaved Coded Multiple Beamforming with Constellation Precoding, Boyu Li; Hong Ju Park; Ender Ayanoglu (*University of California, Irvine, USA*)

1569404457: Coordinated Multi-Point Decoding with Dual-polarized Antennas, S. Chatzinotas; D. Christopoulos (*University of Luxembourg, LU*); Björn Ottersten (*Royal Institute of Technology, SW*)

TM-6: Room: A-104

Session Title: Cooperative Communications (General Symp.)

Session Chair: Mehrdad Dianati, University of Surrey, United Kingdom

1569384053: A Hybrid Data Fusion Based Cooperative Localization Approach for Cellular Networks

Z. He; Y. Ma; R. Tafazolli (University of Surrey, UK)

1569391579: A Genetic Algorithm for Joint Resource Allocation in Cooperative Cognitive Radio Networks

W. Yang (National University of Defense Technology, CN)

1569398635: Adaptive Modulation for Cooperative Communications with Noisy Feedback

C. Qian; Y. Ma; R. Tafazolli (University of Surrey, UK)

1569401309: An Opportunistic Subcarrier Allocation Algorithm based on Cooperative Coefficient for OFDM Relaying Systems,

H. Rasouli; A. Anpalagan (Ryerson University, CA)

1569404589: Improving Fairness by Cooperative Communications and Selection of Critical Users

J. Awad; M. A. Imran; R. Tafazolli (University of Surrey, UK)

TM-7: Room: A-105

Session Title: Cryptography (Security Symp.)

Session Chair: M. Younis, University of Maryland-Baltimore County, USA

Session Co-Chair: Omar A. Al Ibrahim, Southern Methodist University, USA

1569392319: Investigations for the Simulations of a Quantum Key Distribution in WiFi

X. Huang; S. Wijesekera; D. Sharma (University of Canberra, AU)

1569401927: Quantum Cryptography Based Key Distribution in IEEE 802.11 Networks - Analysis on Reconciliation Phase,

S. Wijesekera; X. Huang; D. Sharma (University of Canberra, AU)

1569403615: Design of a Time and Location Based One-Time Password Authentication Scheme

Wen-Bin Hsieh; Jenq-Shiou Leu (National Taiwan University of Science and Technology, TW)

1569403775: A Novel Software-based MD5 Checksum Lookup Scheme for Anti-virus Systems

N-F. Huang; C-N. Kao (National Tsing Hua University, TW); R-T. Liu (BroadWeb Corp., TW)

1569404393: Generalized Hash-Binary-Tree Based Self-healing Key Distribution with Implicit Authentication, *T. Biming (Curtin University, AU)*

LUNCH BREAK (12:00 – 13:30) — Cafeteria Room and Garden (Ground Floor)

Tuesday Afternoon Sessions (TA) — (13:30 - 15:30)

TA-1: Room: Fazil Say Conference Hall

Session Title: Invited Papers

Session Chair: Ahmed Helmy, University of Florida, USA

1569409679: Design and Implementation of Mobile Networking Testbeds with Personality Profiles, *S. Moon; A. Helmy (University of Florida, USA)*

1569410719: The Evolution of WLAN User Mobility and Its Effect on Prediction,

J. Kim; A. Helmy (University of Florida, USA)

1569410823: SPIRIT: A Simulation Paradigm for Realistic Design of Mature Mobile Societies

S. Moghaddam, A. Helmy (University of Florida, USA)

1569388245: Cooperative Q-Learning for Multiple Secondary Users in Dynamic Spectrum Access, *P. Venkatraman; B. Hamdaoui (Oregon State University, USA)*

1569409423: A Kalman-Fuzzy Application for Rate Adaptation in IEEE 802.11 based Multihop Ad Hoc Networks,

B. Alawieh (Alcatel-Lucent, Canada); W. Mardini (Jordan University of Science and Technology, Jordan);

H. Mouftah (University of Ottawa, CA)

TA-2: Room: A-101**Session Title:** Resource Allocation and Management-I (Wireless Networking Symp.)**Session Chair:** Zakaria Hanzaz University of Kaiserslautern, DE**Session Chair:** Ömer Bulakci Nokia Siemens Networks Radio Systems

1569389607: A Low-Complexity Resource Allocation Scheme for Single-User MIMO Transmission, T. Akbudak, B. Zhao, M. Simsek, A. Czylik (University Duisburg-Essen, DE)

1569402621: Distributed Resource Reservation for Real Time Sessions in Multi-Hop Wireless Networks

X. Yu, P. Navaratnam, K. Moessner (University of Surrey, UK)

1569404029: Two Practical Resource Allocation Techniques for Fractional Frequency Reuse in IEEE 802.16m Networks, J. Kim (Seoul National University, KR), W. Sook Jeon (Seoul National University, KR)

1569404039: A New Resource Distribution Model for Improved QoS in an Integrated WiMAX/WiFi Architecture; Md. Rabbani, J. Kamruzzaman, I. Gondal (Monash University, AU), I. Ahmad (Edith Cowan University, AU)

1569404649: Dynamic Fractional Frequency Reuse Based Hybrid Resource Management for Femtocell Networks; F. Tariq, L. Dooley (Open University, UK), A. Poulton (ICT Department, UK), Y. Ji (National Institute of Informatics, JP)

TA-3: Room: A-102**Session Title:** Coverage and Security (Wireless Sensor Networks Symp.)**Session Chair:** Kemal Akkaya, Southern Illinois University Carbondale, USA**Co-chair:** Nidal Nasser, University of Guelph, Canada

1569392569: Prediction-based Object Tracking and Coverage in Visual Sensor Networks, T-S. Chen; J-J. Peng; D-W. Lee (National University of Tainan, TW), H-W. Tsai (Lunghwa University of Science and Technology, TW)

1569392717: Enabling Remote Access to a Wireless Sensor Network by Exploiting IPv6 Capabilities, A. Leonardi; S. Palazzo; F. Scoto; S. Signorello (University of Catania, IT)

1569400979: Feasibility of Wi-Fi Enabled Sensors for Internet of Things, S. Tozlu (Bosch Research, USA)

1569405059: A Study on Energy Efficient Multi-tier Multi-hop Wireless Sensor Networks for Freight-train Monitoring, P. Mahasukhon; H. Sharif; M. Hempel; T. Zhou; T. Ma; P. Shrestha (University of Nebraska-Lincoln, USA)

1569408807: Enhanced Lifetime Maximization Algorithm for wireless Sensor Network, Soodeh Amiri; Hossein Saidi; Ali Ghiasian; Massoud Hashemi (Isfahan University of Technology, IR)

1569404033: A Novel Secure Localization Scheme Against Collaborative Collusion in Wireless Sensor Networks, J. Jiang; G. Han (Hohai University, P.R. CN); L. Shu (Osaka University, JP); H-C. Chao (National Ilan University, TW); Shojiro Nishio (Osaka University, JP)

1569404659: Privacy-Aware Probabilistic Sampling for Data Collection in Wireless Sensor Networks, João Guerreiro; Edith C.-H. Ngai; Christian Rohner (Uppsala University, SE)

TA-4: Room: Cinema**Session Title:** Wireless Technologies-I (Wireless Networking Symp.)**Session Chair:** Feza Buzluca, Istanbul Technical University, Turkey

1569398819: A Novel Cross-Layer Design and QoS Evaluation for Wireless Multiservice Networks
Sonia Ben Rejeb (SUPCOM, TN)

1569400949: Hybrid Sensor Deployment for Surveillance and Target Detection in Wireless Sensor Networks; Y. Wang, M. Wilkerson X. Yu (Southern Illinois University, USA)

1569405011: Normalized Measure of Dispersion Study for Delay Evaluation of Mobile Nodes in IEEE 802.11 Multi-hop Wireless Networks; F. Iradat, W. Arain (IBA, PK), S. Andreev (Tampere University of Technology, FI)

1569403759: On Exploiting the On-Off Characteristics of Human Speech to Conserve Energy for the Downlink VoIP in WiMAX Systems;

X-H. Lin, Liu Ling (University of Hong Kong, HK), W. Hui (Shenzhen University, CN), Y-K. Kwok (University of Hong Kong, HK)

1569407705: Load-balancing and Energy Aware Routing Protocol for real-time flows in Mobile Ad-Hoc Networks, J. Rekik (ENSI, TN); L. Baccouche (INSAT, TN); H. Ben Ghézala (RIADI Lab., TN)

TA-5: Room: A-103**Session Title:** Coding (Communication and Information Theory Symp.)**Session Chair:** Erdal PANAYIRCI, Kadir Has University, Turkey**Session Chair:** Alkan Soysal, Bahcesehir University, Turkey

1569390177: A New Segmental Turbo Receiver for LTE Single User Uplink over Double Selective Channels, *Rui Liu; Sun Qiang; Shi Jin; Xiqi Gao (Southeast University, China)*

1569391907: EXIT Chart Analysis for Turbo LDS-OFDM Receivers,

R. Razavi; M. Ali Imran; R. Tafazolli (University of Surrey, UK)

1569397257: Improved Labelling Diversity for Iteratively-Decoded Multi-Antenna Systems,

M. Krasicki (Poznan University of Technology, PL)

1569404927: Multi-Rate QC-LDPC Scheme for Narrowband Powerline Communication System,

Q. Zhang; F. Yang; J. Song (Tsinghua University, China)

1569404925: Further Results on Differential Encoding by a Table,

R-Y. Wei; C-J. Lin; Y-M. Wu; P-E. Sheih (National Central University, TW)

1569392541: Performance Analysis of Interleave-Division Multiple Access for Uplink in Multi-Cell Environment, *T. Matsumoto;*

Y. Hatahawa; S. Konishi (KDDI R&D Laboratories Inc., JP)

TA-6: Room: A-104**Session Title:** Multimedia over Sensor & Mesh Networks (Multimedia over Wireless Symp.)**Session Chair:** Marc St-Hilaire, Carleton University, Canada

1569404951: An Exact Algorithm for Providing Multi-Perspective Event Coverage in Wireless Multimedia Sensor Networks, *E. Yildiz; K. Akkaya (Southern Illinois University Carbondale, USA); E. Sisikoglu; M. Sir (University of Missouri, USA)*

1569391411: Cross Layer Architecture for Supporting Multiple Applications in Wireless Multimedia Sensor Networks,

M. Farooq (Jacobs U. Bremen, Germany); T. Kunz; M. St-Hilaire (Carleton University, CA)

1569402605: IQAR: Image Quality Aware Routing for Wireless Multimedia Sensor Networks,

P. S. Boluk (Bahcesehir University, TR); K. Irgan; S. Baydere (Yeditepe University, TR);

E. Harmancı (Istanbul Technical University, TR)

1569405009: A Cross Layer Approach in Enabling Multimedia Transmission Over Cognitive UWB Network, *N. M. Aripin;*

N. Faisal; R. Rashid (U. Teknologi Malaysia, MY); A. Lo (Delft U. of Technology, NL)

1569403973: User-Perceived-Quality Aware Replication Strategy for Video Streaming over Wireless Mesh Networks, *N. S. Vo;*

X. Du (Huazhong University of Science and Technology, CN); T. Q. Duong (Blekinge Institute of Technology, SE); W. Cheng (Huazhong U. of Science and Technology, CN)

TA-7: Room: A-105**Session Title:** Attacks and Counter Measures (Security Symp.)**Session Chair:** Omar A. Al Ibrahim, Southern Methodist University, USA**Session Co-Chair:** M. Younis, University of Maryland-Baltimore County, USA

1569391505: Security architecture for infrastructure protection

S. Nair; S. Abraham; O. A. Al Ibrahim (Southern Methodist University, USA)

1569392849: Finding DDoS Attack Sources: Searchlight Localization Algorithm for Network Tomography, *O. Demir; B. Khan (City University of New York, USA)*

1569404297: A DOS-Resilient Design for Delay Tolerant Networks,

G. Ansa; H. Cruickshank; Z. Sun; M. Alsiyabi (University of Surrey, UK)

1569404811: Strategy based proxy to Secure User Agent from Flooding Attack in SIP

I. Hussain; F. Naït-Abdesselam (University of Paris Descartes, FR)

1569404975: Effect of Mobility and Count of Base-stations on the Anonymity of Wireless Sensor Networks, *Z. Ren; M. Younis (University of Maryland Baltimore County, USA)*

1569405047: Security Techniques for Zero Day Attacks, *U. Tupakula (Macquarie University, AU)*

TA-8: Room: A-207

Session Title: Cognitive Networks (Cooperative and Cognitive Networks Workshop)

Session Chair: Sema Oktug, Istanbul Technical University, Turkey

Session Co-Chair: Bechir Hamdaoui, Oregon State University, USA

1569391219: Framework for Utility Driven Congestion Control in Delay Tolerant Opportunistic Networks, *M. Radenkovic; A. Grundy (University of Nottingham, UK)*

1569393287: Competitive Spectrum Sharing for Cognitive Radio on Scale Free Wireless Networks, *A. Rajaei; M. Saedy (U. of Texas at San Antonio, USA); A. Sahebalam (Ferdowsi U. of Mashhad, IR)*

1569403885: Accurate Performance Analysis of Opportunistic Decode-and-Forward Relaying, *K. Tourki (Texas A&M at Qatar (TAMUQ), Qatar); H.-C. Yang (University of Victoria, CA); Mohamed-Slim Alouini (KAUST, SA)*

1569404119: Maximizing the Concurrent Transmissions in Cognitive Radio Ad Hoc Networks, *M. R. Hassan (Monash University, Australia); G. C. Karmakar; J. Kamruzzaman (Monash University, AU)*

1569404155: Opportunistic Spectrum Access Using Collaborative Sensing in Nakagami-m Fading Channel with Real Fading Parameter, *O. ElBashir; M. Adel Abdel-Hafez (UAE University, UAE)*

1569404727: A Priority Based, Cooperative Spectrum Utilization Considering Noise in Common Control Channel in Cognitive Radio Networks, *G. S. Uyanik; S. Oktug (Istanbul Technical U., TR)*

1569407491: Performance Analysis of Cognitive Coexistence Systems with Sensing Errors, *X. Li (Xidian University, P.R. CN)*

COFFEE BREAK (15:30-16:00) — Building C, First Floor

Tuesday Afternoon Sessions (TA) — (16:00 - 18:00)

TA-9: Room: Fazil Say Conference Hall

Session Title: Invited Papers

Session Chair: Jelena Mišić, Ryerson University, Canada

1569404789: Performance of Simple Cognitive Personal Area Networks with Finite Buffers, *J. Mišić; V. B. Mišić (Ryerson University, CA)*

1569406895: On Optimal Algorithm for Coverage Hole Healing in Hybrid Sensor Networks, *D. Nguyen; N. Nguyen; M. Thai; A. Helal (University of Florida, USA)*

1569413109: Packet discarding policies for in-network data aggregation in wireless sensor networks, *M. Díaz-Anadón; K. K. Leung (Imperial College, UK)*

1569391865: Impact of Smart Traffic Handling Scheme on Load Balancing and Interference Margin in Multilayer Network with UMTS900, *M. Sheikh; J. Lempiäinen (Tampere University of Technology, FI)*

1569410715: On the Efficacy of Mobility Modeling for DTN Evaluation: Analysis of Encounter Statistics and Spatio-Temporal Preferences; *G. Thakur, U. Kumar, A. Helmy, W.-J. Hsu (UF, USA)*

TA-10: Room: A-101

Session Title: Resource Allocation and Management–II (Wireless Networking Symp.)

Session Chair: Osianoh Glenn, Aliu University of Surrey, United Kingdom

Session Co-Chair: Lyes Khouchi, University of Technology of Troyes, France

1569406211: Hybrid MAC based Resource Management Scheme for Kiosk Service in 802.15.3c WPAN *Y. Xu, P. Xu, W. Zeng, Q. Tian (Southeast University, CN)*

1569409043: Distributed Resource and Service Management for Large-Scale Dynamic Spectrum Access Systems Through Coordinated Learning; *M. Noroozoliaee, B. Hamdaoui (Oregon State University, USA)*

1569404677: Dynamic Resource Management for OFDMA-based Femtocells in the Uplink *L.-C. Tseng and CY. Huang (National Chiao Tung U., TW), A. F. Hanif (Telecom Sud Paris, FR)*

1569372993: A Distributed Bandwidth Management Scheme for Multi-Hop Wireless Access Networks *R. Scopigno and A. Vesco (Istituto Superiore Mario Boella, IT)*

1569404905: Optimal Utility-Based Bandwidth Allocation in WiMAX Networks, *N. Nasser (U of Guelph, CA), R. Miller (Environment Canada, CA), A. Esmailpour (U of Toronto, CA), A. Taha (Queen's U, CA)*

TA-11: Room: A-102**Session Title:** Applications and Data Aggregation (Wireless Sensor Networks Symp.)**Session Chair:** Muhammad Anan, Purdue University Calumet, USA**Co-chair:** Nidal Nasser, University of Guelph, Canada**1569389865:** A Cluster-based Data Aggregation Architecture in WSN for Structural Health Monitoring,*Pin Nie; Bo Li (Aalto University, FI)***1569391381:** Implementing Top-k Query in Duty-Cycled Wireless Sensor Networks, *C. Zhu; Laurence T. Yang (St. Francis Xavier University, CA); L. Shu ; T. Hara; S. Nishio (Osaka University, JP)***1569404459:** Data Aggregation for Periodic Sensor Networks Using Sets Similarity Functions,*Jacques Bahi; Abdallah Makhoul; Maguy Medlej (University of Franche-Comté, FR)***1569404463:** XLCM: Xross-Layer Communication Module for Service Differentiation in Wireless Sensor Networks, *A. Demir;**H. E. Demiray (Kocaeli University, Turkey); S. Baydere (Yeditepe University, TR)***1569404689:** Wireless Sensor Networks for Medical Care Services,*N. Sghaier; A. Mellouk; B. Augustin; Y. Amirat; J. Marty; M. Khoussa; A. Abid; R. Zitouni**(University Paris-Est Creteil Val de Marne, FR)***1569404783:** Energy Efficient Data Dissemination in Wireless Sensor Networks Based on Natural Selection, *M. Anan**(Purdue University Calumet, USA); D. Benhaddou (University of Houston, USA)***1569449105:** An Efficient Artificial Landmark-Based System for Indoor and Outdoor Identification and Localization,*M. Salahuddin; A. Al-Fuqaha; V. Gavirangaswamy; M. Ljucovic (Western Michigan University, USA); M. Anan (Purdue University Calumet, USA)*

TA-12: Room: Cinema**Session Title:** Wireless Technologies-II (Wireless Networking Symp.)**Session Chair:** Soumaya Cherkaoui, University of Sherbrooke, Canada**1569404843** Impact of Packet Aggregation on Energy Consumption in Smartphones*R. Palit, K. Naik, A. Singh (University of Waterloo, CA)***1569410785** Deterministic Access for DSRC/802.11p Vehicular Safety Communication*J. Rezgui, S. Cherkaoui, O. Chakroun (University of Sherbrooke, CA)***1569396655** Energy-Efficient Fragment Recovery Techniques for Low-Power and Lossy Networks*A. Ayadi, P. Maillé, D. Ros, L. Toutain (Telecom Bretagne, FR), P. Thubert (Cisco, FR)***1569402233** Integrating RSS from Unknown Access Points in WLAN Positioning*P. Addesso, L. Bruno, R. Restaino (University of Salerno, IT)***1569392121:** WSN Application in the Harsh Industrial Environment of the Oil Sands,*A. El Kouche; L. Al-Awami; H. S. Hassanein (Queen's U, CA); K. Obaia (Oil and Energy, CA)*

TA-13: Room: A-103**Session Title:** Topics in Communication Theory (Comm. and Information Theory Symp.)**Session Chair:** Ertan Öztürk, Zonguldak Karaelmas University, Turkey**1569401429:** Two-Piecewise Companding Transform for PAPR Reduction of OFDM Signals,*Yang Pinlu; Hu Aiqun (Southeast University, P.R. CN)***1569403763:** Ultra-wideband Characterization of Obstructed Propagation,*N.n Iya; Al.Muqaibel; U. Johar; A. Landolsi (KFUPM, SA)***1569404663:** Sensitivity of Information Capacity of Land Cellular System to Propagation Loss Parameters at Higher Microwave Frequencies, *K. Anang; P. Rapajic; T. Eneh; L. Bello (U of Greenwich, UK)***1569404813:** Unified Analysis of Energy Detection of Unknown Signals over Generalized Fading Channels, *A. Annamalai;**O. Olabiy; S. Alam; O. Odejide; D. Vaman (Prairie View A&M University, USA)***1569404933:** Novel Frame Structures of TDS-OFDM System for Multi-Service Transmission,*K. Yan; F. Yang; J. Song (Tsinghua University, CN)***1569404893:** Signalling-Embedded Training Sequence Design for Block Transmission Systems, *L. He; F. Yang; Z. Wang**(Tsinghua University, CN)*

TA-14: Room: A-104**Session Title:** Mobile P2P Networks and Applications (Mobile P2P Workshop)**Session Chair:** Jiann-Liang Chen, National Taiwan University of Science and Technology, TW**Session Co-Chair:** Der-Jiunn Deng, National Changhua University of Education, TW**1569391333:** Conformance Test and Performance Analysis for IMS Session Initiation, *G-L. Liao (Nat Ilan U., TW); T-Y. Wu**(Tamkang U., TW); C-Y. Chen (Nat Dong Hwa U., TW); H-C. Chao (National Ilan U., TW); Wei-Tsong Lee (Tamkang U., TW)***1569404971:** Mixed P2P-CDN System for Media Streaming in Mobile Environment,

S-T. Sheu; Chi-Hao Huang (National Central University, TW)

1569404947: Mobile Cloud Computing Service Based on Heterogeneous Wireless and Mobile P2P Networks, Y. T. Larosa; J-L. Chen (Nat Taiwan UST, TW); Der-Jiunn Deng (Nat Changhua U. of Ed, TW)

1569390965: Distributed Verification of Global Multiple Disjoint Paths in Mobile Wireless Networks, M. Griffin; T. Korkmaz (University of Texas at San Antonio, USA)

1569407379: A Low Cost Transparent Traversal Method for NAT, D-C. Huang (Nat Chung Hsing U., TW), R-F. Sun (Yare Technologies, TW), and D-J. Deng (Nat Changhua U. of Education, TW)

1569407953: An AP-Assisted Fast Handoff Scheme Using IP Address for Vehicular Ad-Hoc Networks, J-W. Ding, H-C. Li, Y-H. Chuang, C-K. Chang (Nat Kaohsiung Univ of Applied Science, TW), D-C. Huang (Nat Chung Hsing Univ, TW)

1569404523: IEEE802.11k-Assisted Load Balancing (K-LB) for Peer-to-Peer Content Distribution over Mobile SCTP, C. Thorpe; S. Murphy; L. Murphy (University College Dublin, IE)

TA-15: Room: A-105

Session Title: Wireless Security (Security Symp.)

Session Chair: Sattar B. Sadkhan, University of Babylon, Iraq

Co-chair: Omar A. Al Ibrahim, Southern Methodist University, USA

1569392455: Mutual Entity Authentication for LTE, G. M. Køien (University of Agder, NO)

1569404803: Secure and QoS-aware SIP handover for VoIP Communication in Vehicular Adhoc Networks, B. Triki (ISETCOM, TN); S. Rekhis; N. Boudriga (University of Carthage, TN)

1569403913: Position Forging Attacks in Vehicular Ad Hoc Networks: Implementation, Impact and Detection, J. Grover; M. S. Gaur; V. Laxmi (Malaviya National Institute of Technology, IN)

1569402503: Security for eSafety Applications Clusters, J. Moslah (ENSI, TN)

1569404717: Secure Quantized Target Tracking in Wireless Sensor Networks, M. Mansouri; L. Khoukhi (University of Technology of Troyes, FR)

TA-16: Room: A-207

Session Title: Cooperative Networks (Cooperative and Cognitive Networks Workshop)

Session Chair: M. Adel Abdel-Hafez, United Arab Emirates University, UAE

Session Co-Chair: Kamel Tourki, Texas A&M at Qatar, Qatar

1569392077: PAPR Reduction in Distributed Closed Loop Extended Orthogonal Space Frequency Block Coding with Quantized two-bit Group Feedback for Broadband Multi-node Cooperative Communications, M. Eddaghel; J. Chambers (Loughborough University, UK)

1569401713: Threshold-based Adaptive Decode-Amplify-Forward Relaying Protocol for Cooperative Systems, S. Bouanen (UQAM-SUPCOM, Canada); H. Boujemaa (Ecole Supérieure des Communications, TN); W. Ajib (Université du Québec à Montréal, CA)

1569401719: Throughput and Delay Analysis of Truncated Cooperative ARQ Protocols using DSTC, M. Bouanen; W. Ajib (U du Québec à Montréal, CA); H. Boujemaa (Ecole Sup Com, TN)

1569403791: Adaptive Use of Two Decode-and-Forward Algorithms in Relay-Enhanced Wireless Transmissions, C. Bota; A. Botos; M. Varga; V. Bota (Tech Univ of Cluj-Napoca, RO)

1569403817: Minimum-Outage Unicast Routing in Cooperative Wireless Networks, G. D. Kurt; T. Girici (TOBB University Economics and Technology, TR)

1569403965: Performance of Power Allocation Schemes in a Two-Hop AF Relay System with Faded Direct Link, H. Rasouli; A. Anpalagan (Ryerson University, CA)

1569404201: Generalized Routing Protocols for Multihop Relay Networks, F. A. Khan; F. Yilmaz; M.-S. Alouini (KAUST, SA)

1569404801: Analysis of Cooperative Non-Regenerative Relay Networks with Adaptive Modulation in Generalized Fading Channels, A. Annamalai; B. C. Modi (Prairie View A&M University, USA); R. C. Palat (Consultant, USA)

WELCOME RECEPTION (18:30 – 21:00) — BOSPHORUS CRUISE



Technical Program
IEEE IWCMC 2011
Istanbul, Turkey,
July 4 - 8, 2011
Wednesday, July 6, 2011



Registration: (7:30 am - 5:00 pm)

Room: Building C, First Floor

KEYNOTE 2 (8:30-10:00)

Room: Fazil Say Conference Hall

Speaker: Mario Gerla, University of California Los Angeles, USA

Title: Vehicular Communications: From Urban Sensing to Traffic Control and Game

Chair: Mohsen Guizani, IWCMC 2011

COFFE BREAK (10:00 – 10:30) — Building C, First Floor

Wednesday Morning Sessions (WM) — (10:30 - 12:30)

WM-1: Room: A-202

Session Title: Invited Papers

Session Chair: Mario Gerla, University of California at Los Angeles, USA

1569403733: CoRoute: A New Cognitive Anypath Vehicular Routing Protocol, W. Kim (UCLA, USA); S. Y. Oh (UtopiaCompression); M. Gerla; K. Lee (UCLA, USA)

1569404547: Coordinated Scheduling Scheme for IEEE 802.11p Wireless Vehicular Networks Using Centralized Scheduling of IEEE 802.16e Wireless Metropolitan Area Networks, S-T. Sheu; P-J. Hsieh; Y-C. Cheng; J-S. Wu (National Central University, TW)

1569409365: Advanced Diffusion of Classified Data in Vehicular Sensor Networks, N. Haddadou; A. Rachedi (U. PEMV, FR); Y. Ghamri-Doudane (U. Paris-Est (LIGM Lab) & ENSIIE, FR)

1569409433: Using Fuzzy Logic to Calculate the Backoff Interval for Contention-based Vehicular Networks, T. AbdelKader; K. Naik (U. of Waterloo, CA); A. Nayak (U. of Ottawa, CA)

WM-2: Room: A-101

Session Title: Modeling and Evaluating Networked CyPhy Systems (CyPhy Workshop)

Session Chair: Abd-Elhamid M. Taha, Queen's University, Canada

1569404795: Exact Response Time of FlexRay Communication Protocol; Lucien Ouedraogo; Ratnesh Kumar (Iowa State University, USA)

1569392837: Management of PHEV Batteries in the Smart Grid: Towards a Cyber-Physical Power Infrastructure; M. Erol-Kantarci; H. Mouftah (University of Ottawa, CA)

1569401589: An Approach to Evaluating Usability of VANET Applications; C. Dobre; C. Fratila (University Politehnica of Bucharest, RO); L. Iftode (Rutgers University, USA)

1569404613: On Robustness of A Class of Cyber-Physical Network Infrastructures; N. Rao (Oak Ridge National Laboratory, USA); C. Y. Tak Ma (Advanced Digital Sciences Center, Illinois at Singapore, SG); David K. Y. Yau (Purdue University, USA)

WM-3: Room: A-102

Session Title: MAC and Design Techniques (Wireless Sensor Networks Symp.)

Session Chair: Serbulent Tozlu, Bosch Research, USA

Co-chair: Nidal Nasser, University of Guelph, Canada

1569387945: A Joint Model for IEEE 802.15.4 Physical and Medium Access Control Layers, M-H. Zayani; V. Gauthier (SAMOVAR UMR, FR); D. Zeglache (Institut TELECOM, TELECOM SudParis, FR)

1569391377: A Real-Time Traffic Monitoring Based on Wireless Sensor Network Technologies, B. Barbagli; L. Bencini; I. Magrini; G. Manes (University of Florence, IT); A. Manes (Netsens S.r.l., IT)

1569392245: Design, Development and Testing of a Wireless Sensor Network for Medical Applications, Y-L. Tsou; S. Berber (University of Auckland, NZ)

1569392515: A Balanced Energy Consumption Sleep Scheduling Algorithm in Wireless Sensor Networks, Z. Yuan; L. Wang (Dalian

University of Technology, P.R. CN); L. Shu; T. Hara (Osaka University, JP); Q. Zhenquan (Dalian University of Technology, P.R. CN)
1569401311: Versatile Medium Access Control (VMAC) Protocol for Mobile Sensor Networks,
V. Ngo; A. Anpalagan; I. Woungang (Ryerson University, CA)
1569404913: Using Deceptive Packets to Increase Base-Station Anonymity in Wireless Sensor Network, Y. Ebrahimi; M. Younis
(University of Maryland Baltimore County, USA)

WM-4: Room: Cinema

Session Title: Vehicle-to-Infrastructure Communication (Vehicular Communications Symp.)

Session Chair: Soumaya Cherkaoui, Université de Sherbrooke, Canada

1569392823: Performance Evaluation of IEEE 802.11p Infrastructure-to-Vehicle Tunnel Measurements
V. Shivaldova; G. Maier (VUT, AT); D. Smely (Kapsch TrafficCom, AT); N. Czink (FTW Telecom. Research Center Vienna, AT);
A. Alonso (TU Wien, AT); A. Winkelbauer (VUT, AT); A. Paier (TU Wien, AT); C. Mecklenbräuker (VUT, AT)
1569398839: Validation of vehicular network simulation models with field-test measurements
A. Miloslavov; M. Veeraraghavan; B. Smith (University of Virginia, USA)
1569401113: A SNR-based Admission Control Scheme in WLAN-based Vehicular Networks
K. Kim; Y. Kim; S. Pack (Korea University, KR); N. Choi (Alcatel-Lucent, Bell-Labs, KR)
1569401815: Performance Evaluation of Adaptive MIMO Switching in Long Term Evolution
M. Sheikh; R. Jagusz; J. Lempiäinen (Tampere University of Technology, FI)
1569399973: Data Delivery Guarantees in Congested Vehicular Ad hoc Networks using Cognitive Networks, A. Ghandour;
K. Fawaz; H. A. Artail (American University of Beirut, LB)

WM-5: Room: A-103

Session Title: Cooperative Communications, Network Coding, Relaying-I (Communication and Information Theory Symp.)

Session Chair: Oğuz Kucur, Gebze Institute of Technology, Turkey

Co-chair: Melda A Yuksel, TOBB University of Economics and Technology, Turkey

1569391105: Joint MMSE Transceiver Design for Multiuser Non-Regenerative MIMO Relay Downlink Systems, J. Liu; Z. Liu;
Z. Qiu (Beijing Jiaotong University, CN)
1569391441: Outage Probability Performance of Transmit Antenna Selection and Generalized Selection Combining in a Dual Hop
Amplify-and-Forward Relay Network,
A. Yilmaz; O. Kucur (Gebze Institute of Technology, TR)
1569392651: BER-based Power Allocation Scheme for Decode-and-Forward Relaying with Arbitrary Signal Constellation, M. Wu;
D. Wübben; A. Dekorsy (University of Bremen, DE)
1569404425: Minimum Common Outage Probability for the Broadcast Relay Channel, A. Isikman (Chalmers Univ. of Technology,
SE); M. A Yuksel (TOBB Univ. of Economics and Technology, TR)
1569404705: Achieving the Lower Bound of Fading MIMO Relay Channels with Partial CSI,
B. Aygün; A. Soysal (Bahcesehir University, TR)
1569404823: Accurate Approximations for the Symbol Error Probability of Cooperative Non-Regenerative
Relay Systems over Generalized Fading Channels, A. Annamalai; O. Olabiyi; S. Alam (P. V. A&M U, USA)
1569404665: Energy Efficiency Analysis of In-Building MIMO AF Communication, F. Hélot; M. Ali Imran; R. Tafazolli
(University of Surrey, UK)

WM-6: Room: A-104

Session Title: Application Layer, Software, and Signal Processing (General Symp.)

Session Chair: Mehrdad Dianati, University of Surrey, United Kingdom

1569391963: Performance study of a Green Light Optimized Speed Advisory (GLOSA) Application Using an Integrated
Cooperative ITS Simulation Platform, K. Katsaros; R. Kernchen; M. Dianati (University of Surrey, UK); D. Rieck (Fraunhofer
Institute for Open Communication Systems, DE)
1569403541: Line Strip Multibeam Spot Diffusing Optical Wireless System employing Beam Delay and Power Adaptation with
Angle Diversity Detection, M. Alresheedi; J. Elmirghani (University of Leeds, UK)
1569404455: Evaluating Protocol Energy Use and Efficiency through Profiling of Computational Operations, B. Mcaleer;
S. Georgoulas; K. Moessner; R. Tafazolli (University of Surrey, UK)
1569404941: Measurement and Prediction of DTMB Reception Quality in Single Frequency Networks,
K. Yan; W. Ding (Tsinghua University, CN); L. Zhang (Radio Institute, Academy of Broadcasting Science of SARFT, CN); F. Yang;
C. Pan (Tsinghua University, CN)
1569410691: Dynamic Spectrum Allocation Algorithm with Interference Management in Displaced Networks, G. Alnawaimi
(Centre for Communication Systems Research, UK); K. Arshad; K. Moessner (University of Surrey, UK)

WM-7: Room: A-105

Session Title: Security Modeling and Optimization (Security Symp.)

Session Chair: Karima Boudaoud, University of Nice Sophia Antipolis, France

Session Co-chair: Muhammad Anan, Purdue University Calumet, USA

1569392327: A Reputation Management Model using ID Based Cryptosystem in Overlay Networks

H. Hakan Kilinc (Gebze Institute of Technology, TR)

1569402237: TRACE: A Centralized Trust and Competence-Based Energy-Efficient Routing Scheme for Wireless Sensor Networks,

A. Tajeddine; A. Kayssi; A. Chehab (AUB, LB)

1569404533: A Novel 3-D Model for Node and System Trust,

G. Hadjichristofi; G. Kappos; C. Hadjicostis (University of Cyprus, CY)

1569404741: A Security-Property-Based Approach for Lowering Power Consumption of Secure Mobile Web Access, *C. Pita*

(Technical U. of Cluj-Napoca, RO); K. Boudaoud; M. Riveill (U. of Nice, FR)

1569406899: A Virtual Network Topology Security Assessment Process

A. Karmouch; R. Goyette (University of Ottawa, CA)

WM-8: Room: A-207

Session Title: Multihop Wireless Network Testbeds and Experiments (Multihop WNs Workshop)

Session Chair: Magnus Skjegstad, University of Oslo, Norway

Session Co-chair: Marc St-Hilaire, Carleton University, Ottawa, Canada

1569391419: Clock Synchronization in WSN: Simulation vs. Implementation,

T. Kunz; E. McKnight-MacNeil (Carleton University, Ottawa, CA)

1569392857: Comparison of ns2.34's ZigBee/802.15.4 Implementation to Memsic's IRIS Motes, *J. Edwards; F. Demers; M. St-*

Hilaire; T. Kunz (Carleton University, CA)

1569392911: Implementation of the CCA-MAP Localization Algorithm on a Wireless Sensor Network Testbed, *A. Al-Odhari; S.*

Alikhani; A. Dirie; H. Beki; L. Sirko; M. St-Hilaire; T. Kunz (Carleton University, CA)

1569401179: An Experimental Evaluation of Web Services Discovery Protocols for Search and Rescue Operations, *M. Skjegstad*

(University of Oslo, NO); Frank T. Johnsen; T. Hafstøe (Norwegian Defence Research Establishment (FFI), NO)

1569401619: Facing Challenges in Evaluation of WSN Energy Efficiency with Distributed Energy Measurements, *A.*

Hergenröder;

J. Horneber (Karlsruhe Institute of Technology (KIT), DE)

1569402731: Experimental Performance Assessment of WMN Routing Protocols with Mobile Nodes,

M. Reineri; R. Rubino; C. E. Casetti; C-F. Chiasserini (Politecnico di Torino, IT)

LUNCH BREAK (12:00 – 13:30) — Cafeteria Room and Garden (Ground Floor)

Wednesday Afternoon Sessions (WA) — (13:30 - 15:30)

WA-1: Room: Fazil Say Conference Hall

TRAC Welcome message

TRAC Invited Speaker: Saverio Niccolini, Real-Time Comm. Group, NEC Labs Europe

Session Title: Traffic Classification (TRAC Workshop)

Session Chair: Christian Callegari, University of Pisa, Italy

1569404805: On the Use of Sub-Space Clustering & Evidence Accumulation for Traffic Analysis & Classification, *P. Casas; J. Mazel; P. Owezarski (LAAS-CNRS, FR)*

1569391449: Toward systematic methods comparison in traffic classification, *M Pietrzyk (Orange Labs, FR); L. Janowski (AGH U. of Science and Tech, PL); G. Urvoy-Keller (U. de Nice, FR)*

1569390543: Fine-grained behavioral classification in the core: the issue of flow sampling, *S. Valenti; D. Rossi (TELECOM ParisTech, FR)*

1569391893: Two-Phased Method for Identifying SSH Encrypted Application Flows
M. Hirvonen; M. Sailio (VTT Technical Research Centre of Finland, FI)

WA-2: Room: A-101

Session Title: Wireless Multi-Hop Networks (Wireless Networking Symp.)

Session Chair: Ömer Bulakci, Nokia Siemens Networks Radio Systems, DE

Session Co-Chair: Zhong Fan, Toshiba Research-Europe

1569391369: Experiments with the MOST Multicast Protocol in a Wireless Multi-Hop Network
A. Meraihi Naimi, C. Adjih, P. Minet (INRIA, FR), T. Plesse (DGA MI (ex CELAR), FR)

1569403547: Designing Statistical Multi-hop Wireless Broadcast Protocols using Confidence Levels from Stochastic Models of Reachability; *M. Slavik and I. Mahgoub (Florida Atlantic University, USA)*

1569403693: Optimal Antenna Placement in Multi-Hop Wireless Networks with Heterogeneous Antennas *O. Bazan and M. Jaseemuddin (Ryerson University, CA)*

1569404043: Supporting QoS Traffic at the Network Layer in Multi-hop Wireless Mobile Networks
G. Gorbil (Imperial College London, UK), I. Korpeoglu (Bilkent University, TR)

1569404085: A Redundancy-Free Reliable Multicast in Wireless Multi-hop Relay Networks
C-Y. Chen, W-K. Jia, Y-R. Yang, Y-C. Chen (National Chiao Tung University, TW)

WA-3: Room: A-102

Session Title: Clustering and Routing Protocols (Wireless Sensor Networks Symp.)

Session Chair: Zaher Merhi, Lebanese International University, Lebanon

Co-chair: Tomohiko Taniguchi, Fujitsu Laboratories Limited, Japan

1569379223: Cluster Discovery in Phase-Shift Beamformed Ad-Hoc and Sensor Networks,
A. Mihnea Moucha; J. Gattermayer (Czech Technical University in Prague, CZ)

1569392051: Energy-Aware Routing for Delay-Sensitive Applications Over Wireless Multihop Mesh Networks, *A. Awad; O. Nasr; M. Khairy (Cairo University, EG)*

1569399179: Energy Efficient Routing Protocol for Zone Based Mobile Sensor Networks,
U. Ahmed' F. Hussain (National University of Sciences and Technology, PK)

1569403499: Application-oriented Re-Clustering and Cluster Head Re-Election Scheme for Wireless Sensor Networks,
A. Akbar (Ajou University, KR)

1569404265: Comparison of the Beacon-less Geographic Routing Protocols in Wireless Sensor Networks, *A. Kaya; A. Zengin; H. Ekiz (Sakarya University, TR)*

1569404583: A Cluster-Based Model for QoS-OLSR Protocol, *H. Otrok (Khalifa U of Science, UAE); A. Mourad (LAU, LB); J-M. Robert (ETS, CA); N. Moati; H. Sanadiki (LAU, LB)*

WA-4: Room: Cinema

Session Title: Realistic Simulation for CyPhy Systems (CyPhy Workshop)

Session Chair: Abd-Elhamid M. Taha, Queen's University, Canada

1569392851: Methods for real-time simulation of Cyber-Physical Systems: application to automotive domain; *C. Faure; M. Ben-Gaid; N. Pernet; M. Fremovici; G. Font; G. Corde (IFP Energies Nouvelles, FR)*

1569404469: Mixed continuous/discrete time modeling with exact time adjustments; *K. Rovers; J. Kuper; M. van de Burgwal; A. Kokkeler; G. Smit (University of Twente, NL)*

1569391797: Electric Loads as Real-time tasks: an application of Real-Time Physical Systems;
M. D. Vedova; E. di Palma; T. Facchinetti (University of Pavia, IT)

1569404875: Controlled-Mobile Sensing Simulator for Indoor Fire Monitoring;
A. Purohit; P. Zhang (Carnegie Mellon University, USA)

WA-5: Room: A-103

Session Title: Wireless Networks (Communication and Information Theory Symp.)

Session Chair: Ibrahim Hokelek, Tubitak, UEKAE, Turkey

Session Co-Chair: Hüseyin Arslan, U. of Southern Florida, USA

1569391937: Network Defense Strategies for Optimization of Network Survivability under Malicious Attacks, *Pei-Yu Chen (National Taiwan University, TW)*

1569402927: Capacity of Social Networks in Wireless Environments,
B. Azimdoost; H. Sadjadpour; J. Garcia-Luna-Aceves (University of California at Santa Cruz, USA)

1569403773: A Subchannel-aware Burst Fragmentation, Packing and Scheduling (BFPS) Algorithm for Downlink Traffic in IEEE 802.16 OFDMA Systems, *H-C. Chen (Ching Kuo Institute of Management and Health, TW); K-P. Shih; C-T. Chiang; C-L. Chen (Tamkang University, TW)*

1569404339: A New Cost Function for Game Theoretic SIR-Based Power Control Algorithms,
E. Pasandshanjani; B. Khalaj, M. Moghaddam (Sharif University of Technology, IR)

1569404501: Sum Rate Maximization in the Uplink of Multi-Cell OFDMA Networks,
H. Tabassum (KAUST, SA); Z. Dawy (AUB, LB); M-S. Alouini (KAUST, SA)

1569404587: A Mathematical Model for Distributed Channel Access in Cognitive Radio Networks,
B. Kahraman; F. Buzluca (Istanbul Technical University, TR)

WA-6: Room: A-104

Session Title: Security, Applications and Mobility Models (Vehicular Communications Symp.)

Session Chair: Malathi Veeraraghavan, University of Virginia, USA

1569392665: Verifying SeVeCom Using Set-based Abstraction, *S. A. Mödersheim (Technical University of Denmark (DTU), DK); P. Modesti (Università Ca' Foscari Venezia, IT)*

1569405013: Performance Evaluation of 802.11p Device for Secure Vehicular Communication,
H. Guo; S. T. Goh (I. for Infocomm Research, SG); N. S. Foo; Q. Zhang; W-C. Wong (NUS, SG)

1569401059: Continuous Within Query in Road Networks, *Y-K. Huang (Kao-Yuan Univ., TW)*

1569404985: On using compressive sensing for vehicular traffic detection, *M. Sipouo Ngandjon; S. Cherkaoui (Université de Sherbrooke, CA)*

1569392585: A Stable Clustering Algorithm for Efficiency Applications in VANETs, *N. Maslekar; M. Boussedjra; J. Mouzna (Esigelec-Irseem, FR); H. Labiod (TELECOM ParisTech (ENST), FR)*

1569404517: Recognizing the Levy-walk Nature of Vehicle Mobility,
Y. Cao; Y. Li; J. Zhou; D. Jin; L. Su; L. Zeng (Tsinghua University, CN)

WA-7: Room: A-105

Session Title: Radio Resource Management and MAC (General Symp.)

Session Chair: Mehrdad Dianati, University of Surrey, United Kingdom

1569392893: Improving Reliability of Emergency Message Dissemination in VANETs,
M. Taghipour (McGill University, CA); C. Han; M. Dianati (University of Surrey, UK)

1569401603: A Simple and Reliable Credit-Balanced Incentive Scheme for Wireless Ad-hoc Networks,
L. Zhang; M. Sooriyabandara; Z. Fan (Toshiba Research Europe Limited, UK)

1569404365: UWB Acquisition Based on Combining Multiple Correlator Outputs,
J. Kim; D. Chong; Y. Lee; S. Yoon (Sungkyunkwan University, KR)

1569404891: A Local Search Heuristic for the Design Problem of 3G UMTS All-IP Release 4 Networks with Realistic Traffic, *M. R. Pasandideh; M. St-Hilaire (Carleton University, CA)*

1569410689: A Downlink Power Control Scheme for Interference Avoidance in Femtocells
T. Zahir; K. Arshad; Y. Ko; K. Moessner (University of Surrey, UK)

1569416191: Code Adaptation Control Algorithm for High Energy-Efficiency Wireless Sensor Networks
Q. Lin; J. Tian (Fujitsu R&D Center Co., Ltd., CN)

1569414199: Throughput Optimization and Autonomous Sensing in Cognitive Radio Networks with Random Access, *J. Yuan; M. Torlak (The University of Texas at Dallas, US)*

WA-8: Room: A-207

Session Title: Applications

Session Chair: Vojislav B. Mišić, Ryerson University, Canada

1569404775: Video communications over IEEE 802.11p using single channel devices, *S. Ozturk (Erciyes University, TR), J. Mišić, V. Mišić (Ryerson University, CA)*

1569404233: Performance Analysis of Optimized VANET Protocols in Real World Tests, *J. Toutouh, E. Alba (University of Malaga, ES)*

1569404193: Game Theory and Iterated Voronoi Diagrams for Self-Organized Wireless Sensor Networks, *M. Abdelkader, M. Hamdi, N. Boudriga (Carthage University, TN)*

1569404635: An Experimental Assessment of Transmit Opportunities in Packet Based Networks, *N. Kundargi and A. Tewfik (University of Minnesota, USA)*

1569404281: Distributed Resource Allocation in Small Cellular Networks-Test-bed Experiments and Results, *P. G. Kulkarni, S. Gormus, W. H. Chin, R. J. Haines (Toshiba Research Europe, UK)*

1569403707: On the Detection of Intelligent Mobile Targets in a Mobile Sensor Network, *M. Rahman (University of Arizona, USA), A. Abu-El-Haija, H. Al-Najjar (JUST, JO)*

1569398405: Smart Home Networking: Combining Wireless and Powerline Networking, *C. Jin; T. Kunz (Carleton University, CA)*

COFFEE BREAK (15:30-16:00) — Building C, First Floor

Wednesday Afternoon Sessions (WA) — (16:00 - 18:00)

WA-9: Room: Fazil Say Conference Hall

Session Title: Network Traffic Analysis and Security (TRAC Workshop)

Session Chair: Saverio Niccolini, NEC Lab, Germany

1569402467: A tale of two outages: a study of the Skype network in distress, *B. Trammell (ETH Zurich, CH); D. Schatzmann (Swiss Federal Institute of Technology Zurich, CH)*

1569402909: Hierarchical Clustering and Visualization of Aggregate Cyber Data
R. Patton; J. Beaver; C. Steed; T. Potok; J. Treadwell (Oak Ridge National Laboratory, US)

1569408899: Evaluation and Design of Cache Replacement Policies under Flooding Attacks
M. Zadnik (Brno University of Technology, CZ); M. Canini (EPFL, CH)

1569390239: Detecting Heavy Change in the Heavy Hitter Distribution of Network Traffic
C. Callegari; S. Giordano; M. Pagano; T. Pepe (University of Pisa, IT)

1569402877: Optimizing Flow Sampling for Network Anomaly Detection
K. Bartos; M. Rehak (Czech Technical U. in Prague, CZ); V. Krmicek (Masaryk University, CZ)

1569392595: Noise Tolerant Symbolic Learning of Markov Models of Tunneled Protocols,
H. Bhanu; J. Schwier; R. Craven; I. Ozcelik (Clemson University, US); C. Griffin (The Pennsylvania State University, US); R. Brooks (Clemson University, US)

WA-10: Room: A-101

Session Title: Energy Aware Solutions (for Data Mining and Wireless/Mobile Applications Workshop)

Session Chair: Hazem Hajj, American University of Beirut, Lebanon

Co-Chair: Wassim El Hajj, American University of Beirut, Lebanon

1569391845: Managing Communications Complexity in the Smart Grid Using Data Aggregation, *F. Bouhafs (Liverpool John Moores University, UK)*

1569392065: Optimal WiMAX Frame Packing for Minimum Energy Consumption, *N. Abbas; H. Hajj; A. Yassine (American University of Beirut, LB)*

- 1569392323:** pSurvive: A Process Lifetime Reservation System with Fine-grained Energy Monitoring for Multifunctional Mobile Nodes, *M. Mori; M. Honda; J. Nakazawa; H. Tokuda (Keio University, JP)*

1569404417: A Design Methodology for Energy Aware Neural Networks, *M. Dabbagh; H. Hajj; A. Chehab; W. El-Hajj; A. Kayssi; M. Mansour (American University of Beirut, LB)*

WA-11: Room: A-102

Session Title: Performance Evaluation and Test-beds (Wireless Sensor Networks Symp.)

Session Chair: Lei Shu, Osaka University, Japan

Co-chair: Tomohiko Taniguchi, Fujitsu Laboratories Ltd., Japan

1569391045: Experimental Evaluation of Wideband Signals-Based Wireless Sensor Networks for Industrial Environments, *A. Kadri (QU Wireless Innovations Center, QA); J. Jiang; R. K. Rao (University of Western Ontario, CA)*

1569391955: Wireless Sensor Network Simulators Relevance compared to a real IEEE 802.15.4 Testbed, *S. Lohier; A. Rachedi; E. Livolant; I. Salhi (Université Paris-Est, FR)*

1569404241: Performance Evaluation of IPv6 Label Switched Paths for Wireless Sensor Networks, *S. Kraxberger (Graz University of Technology, AT); U. Payer (FH Campus02 University of Applied Science, AT); C. Gratl (Graz University of Technology, AT)*

1569404571: Implementation and Evaluation of a TCP Header Compression for 6LoWPAN, *A. Ayadi; P. Maillé; D. Ros; L. Toutain; T. Zheng (Telecom Bretagne, FR)*

1569404787: Gossip-based density estimation in dynamic heterogeneous sensor networks, *H. Malazi; K. Zamanifar (U. of Isfahan, IR); A. Pruteanu; S. Dulman (Delft U. of Technology, NL)*

1569415271: Performance Evaluation of Deploying Wireless Sensor Networks in a Highly Dynamic WLAN and a Highly Populated Indoor Environment, *F. Sallabi; A. O. Abu Odeh; K. Shuaib (UAEU, UAE)*

WA-12: Room: Cinema

Session Title: Optimization (Wireless Networking Symp.)

Session Chair: Osman Yilma, Aalto University, Finland

1569390375: TDPBU: Route Optimization for Coexisting Mobility Managements in IPv6 Networks
W-K. Jia, C-Y. Chen, Y-R. Yang, Y-C. Chen (National Chiao Tung University, TW)

1569391617: Optimization of Vertical Handover Decision Processes for Fourth Generation Heterogeneous Wireless Networks;
X. Yan, A. Sekercioglu (Monash U, AU), S. Narayanan (CSU, USA)

1569391793: Optimization of Routing and Gateway Allocation in Aeronautical Ad Hoc Networks Using Genetic Algorithms;
F. Hoffmann, D. Medina (German Aerospace Center, DE), A. Wolisz (Technical University of Berlin, DE)

1569404721: Self-optimization of Random Access Channel in 3GPP LTE; *O. Yilmaz (Aalto University, FI), J. Hämäläinen (Helsinki University of Technology, FI), S. Hämäläinen (Nokia Siemens Networks, FI)*

WA-13: Room: A-103

Session Title: Channel Estimation, Equalization, Synchronization (Comm. and Inf.Theory Symp.)

Session Chair: Hakan A. Cirpan, Istanbul Technical University, Turkey

1569391597: A Symbol Timing Synchronization Method for OFDM Systems Using an Estimated Time Delay Spread, *K. Ota; T. Yui; Y. Hirata; H. Matsue (Tokyo University of Science, JP)*

1569391985: Adaptive MMSE Multiuser Detection for MIMO OFDM Over Turbo-Equalization for Single-Carrier Transmission Wireless Channel, *T. Ikechukwu Eneh; G. Oletu; P. Rapajic; K. A Anang; L. Bello (University of Greenwich, UK)*

1569392501: Bayesian-Based Iterative Blind Joint Data Detection, Code Delay and Channel Estimation for DS-CDMA systems in Multipath, *E. Aydın (U of Maltepe, TR); H. A. Cirpan (Istanbul Technical U, TR)*

1569403939: A Non-Iterative Channel Estimation and Equalization Method for TDS-OFDM Systems, *Muhammad S. Sohail; Ahmed A. Quadeer (KFUPM, SA)*

1569403989: Performance of SFBC-OFDM System with Pilot Aided Channel Estimation, *F. Delestre; Y. Sun (U of Hertfordshire, UK)*

1569404027: Cost Effective Estimation and Equalization of Frequency Selective Channels for Transmit Diversity, *A. Coskun; I. Kale (University of Westminster, UK)*

1569404845: Channel Estimation Technique for MIMO-Constant Envelope Modulation, *E. Mahmoud Mohamed; O. Muta; H. Furukawa (Kyushu University, JP)*

1569404629: Low Complexity Channel Estimation for 3GPP-LTE Downlink MIMO-OFDM Systems, *O. Cetin; B. Karakaya (University of Istanbul, TR); Hakan A. Cirpan (Istanbul Technical University, TR)*

WA-14: Room: A-104

Session Title: Multimedia over P2P & Cloud Computing System (Multimedia over Wireless Symp.)

Session Chair: S. Naik, University of Waterloo, Canada

1569404945: Peer to Peer Content Sharing on Ad Hoc Networks of Smartphones,
P. Tysowski; P. Zhao; S. Naik (University of Waterloo, CA)

1569392355: Distributed Multisource Parallel Coadjutant Transmission Scheme based on P2P lookup protocol in DTN, *D. Wu; J. Li; (Dalian University of Technology, CN)*

1569397883: Alleviating Request Collisions in Peer-to-Peer Live Streaming Systems to Improve System Performance, *Y. Chen; B. Zhang (Graduate University of the Chinese Academy of Sciences, CN); Q. Liu; C. Chen (Beijing Jiaotong University, P.R. CN); Z. Zhou (Institute TELECOM Paris, FR)*

1569392537: IMS Cloud Computing Architecture for High-Quality Multimedia Applications, *J. L. Chen (National Taiwan U. of Science and Technology, TW); S. Wu (National Dong Hwa U., TW); Y. T. Larosa; P.J. Yang (National Taiwan U. of Science and Technology, TW)*

1569404707: An Efficient Path-Migration Mechanism for IP Multimedia Subsystem, *S.W. Hsu (National Dong Hwa U., TW); K. D. Chang (NTUST, TW); C.Y. Chen (National Dong Hwa U, TW); H.C. Chao (National Ilan U, TW); J.L. Chen (NTUST, TW)*

1569405019: A DHT-based Hierarchical Overlay for P2P MMOGs over MANETs,
A. Yu, S. Vuong (University of British Columbia, CA)

WA-15: Room: A-105

Session Title: Medium Access and Physical Layer (Vehicular Communications Symp.)

Session Chair: Kemal Tepe, University of Windsor, Canada

1569392001: Contention Window Analysis for Beaconing in VANETs, *R. Reinders; E. Martijn van Eenennaam; G. Karagiannis; G. Heijenk (University of Twente, NL)*

1569404719: Delay and Interference Comparison of CSMA and Self-Organizing TDMA Using VANETs, *K. Sjöberg; E. Uhlemann (Halmstad U, SE); E. Ström (Chalmers U Technology, SE)*

1569405161: Analysis of PR-ALOHA Protocol for Inter Vehicle Communications, *N. Alsbou; H. Refai (Oklahoma University, USA)*

1569400317: Cluster-based Slot Allocations for Inter-Vehicle Communications in VANETs, *Tsang-Ling Sheu; Yu-Hung Lin (National Sun Yat-Sen University, TW)*

1569404261: Impact of Urban Radio Obstructions on the Effectiveness of Moving WAVE Providers, *C. Campolo (U. of Reggio Calabria, IT); H. A. Cozzetti (I. Superiore Mario Boella, IT); A. Molinaro (U. of Reggio Calabria, Italy); R. M. Scopigno (I. Superiore Mario Boella, IT)*

1569404567: Visible Light Communication for Intelligent Transportation Road Safety Application, *N. Kumar; D. Terra; N. Lourenço; L. Nero (I. of Telecom., PT); R. Aguiar (U. of Aveiro, PT)*

WA-16: Room: A-207

Session Title: Cooperative and Fading Systems

Session Chair: Pingyi Fan, Tsinghua University, China

1569392983: The Deterministic Time-Linearity of Service Provided by Rayleigh Fading Channels, *Y. Dong, Q. Wang, P. Fan (Tsinghua University, CN), K. Ben Letaief (HKUST, HK)*

1569404549: Cooperative Multi-Source-Multi-Destination Transmission System with Relay Selection, *C. Zhi, P. Fan (Tsinghua University, CN), K. Ben Letaief (HKUST, HK)*

1569400041: Capacity of Distributed MIMO with Finite Size, *H. Sadjadpour, J. Garcia-Luna-Aceves (University of California at Santa Cruz, USA), M. Ji (USC, USA)*

1569404203: Channel Characteristics of the Generalized Alpha-Mu Multipath Fading Model, *A. Magableh (JUST, JO), M. Matalgah (University of Mississippi, USA)*

1569404737: Performance of N*Nakagami cascaded fading channels in dual selection combining diversity, *P. Shankar (Drexel University, USA)*

1569404681: Cross-Layer Rateless Coding over Wireless Relay Networks, *M. S. Moghaddam, B. H. Khalaj, E. Pasandshanjani (Sharif University of Technology, IR)*

DINNER BANQUET (19:00-21:00) — Second Floor Garden Terrace-Bahcesehir University



Technical Program
IEEE IWCMC 2011
Istanbul, Turkey,
July 4 - 8, 2011
Thursday, July 7, 2011



Registration: (7:30 am - 3:00 pm)

Room: Building C, First Floor

KEYNOTE 3 (8:30-10:00)

Room: Fazil Say Conference Hall

Speaker: Sajal Das, NSF & University of Texas at Arlington, USA

Title: Cyber-Physical and Networked Sensor Systems: Challenges and Opportunities

Chair: Mohsen Guizani, IWCMC 2011

COFFE BREAK (10:00 – 10:30) — Building C, First Floor

Thursday Morning Sessions (ThM) — (10:30 - 12:30)

ThM-1: Room: A-202

Session Title: Invited Papers

Session Chair: Fumiyuki Adachi, Tohoku University, Japan

1569414069: Gigabit Distributed Antenna Network And Its Related Wireless Techniques, *F. Adachi; K. Takeda; T. Yamamoto; R. Matsukawa (Tohoku University, JP)*

1569411051: A Game-theoretic Approach for Relay Assignment over Distributed Wireless Networks, *X. Liang (University of British Columbia, CA); M. Chen (Seoul National University, KR); V. Leung (The University of British Columbia, CA)*

1569404581: Multiple-Frame Precoding Scheme for BICM over AF Relay Channels, *L. Jiménez Rodríguez; N. Tran; T. Le-Ngoc (McGill University, CA)*

1569403941: A Simplistic Approach to Model Capacity Estimation and Bandwidth Utilization of IEEE 802.11e WLAN, *S. Imon; S. Datta; S. Das (University of Texas at Arlington, USA)*

ThM-2: Room: A-101

Session Title: Network Structure, Traffic and Performance Analysis (TRAC Workshop)

Session Chair: Sandrine Vaton, Telecom Bretagne, France

1569392009: Real-time Anomalies Detection and Analysis of Network Structure, with application to the Autonomous System Network, *G. Ausiello; D. Firmani; L. Laura (Sapienza U. of Rome, IT)*

1569391309: An Evolutionary Algorithm for Network Clustering through Traffic, *S. Salcedo-Sanz (U. de Alcala, ES); M. Naldi (U. of Rome "Tor Vergata", IT); L. Carro-Calvo (U. de Alcalá, ES); L. Laura (Sapienza U. of Rome, IT); A. Portilla (U. de Alcalá, ES); G. Italiano (U. of Rome, IT)*

1569404299: Network Performance Evaluation based on Flow Data, *F. Strohmeier; P. Dorfinger (Salzburg Research Forschungsgesellschaft m.b.H., AT); B. Trammell (ETH Zurich, CH)*

1569391773: Temporal Resolution Adaptation in Real-Time Bitrate Estimation from Packed Sampled Traffic, *R. Vilardi; L. Grieco; G. Boggia (Politecnico di Bari, IT); C. Barakat (INRIA Sophia Antipolis, FR)*

1569404761: Evaluation of Throughput Performance of Traffic Shapers, *T. Minhas; M. Fiedler; J. Shaikh; P. Arlos (Blekinge Institute of Technology, SE)*

1569403997: Traffic Characterization Study on EPON's Upstream Channel, *O. Turna; M. Ali Aydin; T. Atmaca (Istanbul University, TR); A. H. Zaim (IT/Telecom & Management SudParis, FR); T-D. Nguyen (Telecom & Management Sud Paris, FR)*

ThM-3: Room: A-102**Session Title:** Performance Analysis (Wireless Sensor Networks Symp.)**Session Chair:** Wuyi Yue, Konan University, Japan**Co-chair:** Tomohiko Taniguchi, Fujitsu Laboratories Limited, Japan**1569387985:** Analysis of Robustness in Heterogeneous Ad Hoc Networks,*A. Baba Bagayoko; B. Paillassa (ENSEEIH, FR)***1569390327:** Performance Analysis of Multi-Hop with Sleep/Wakeup Protocol on Wireless Sensor Networks, *W. Yue (Konan**University, JP)***1569392377:** Interference Analysis and Outage Performance of Finite Multi-antenna Ad Hoc Networks, *J. Chen; K. Zhang; M.**Ding (City University of Hong Kong, P.R. CN)***1569392405:** Capacity Calculation for Decode and Forward Cooperative Communication System, *Q. Tao; S. Berber; Y-Y. Cheng**(The University of Auckland, NZ)***1569403629:** Reliability Analysis of Wireless Sensor Networks for Forest Fire Detection,*A. Al-Habashneh; M. H. Ahmed; T. Husain (Memorial University of Newfoundland, CA)***1569404711:** Outage Probability Analysis of Wireless Sensor Networks in the Presence of Channel Fading and Spatial*Correlation, T. Al-Murad; M-S. Alouini (KAUST, SA)***1569407949:** PGRP: A Probabilistic Geocast Routing Protocol for Virtual Coordinate-based Wireless Sensor Networks, *Sheng-**Shih Wang (Minghsin University of Science and Technology, TW); Chuan-Ming Liu (National Taipei University of Technology,**TW)*

ThM-4: Room: Cinema**Session Title:** Languages and Environments for CyPhy Modeling and Design (CyPhy Workshop)**Session Chair:** Walid Taha, Halmstad University, Norway**1569408165:** Modelica-A Cyber-Physical Modeling Language and the OpenModelica Environment;*P. Fritzson (Linköping University, SE)***1569387641:** A Model-Based Methodology of Programming Cyber-Physical Systems;*S. Chandhoke; T. Hayles (National Instruments, USA)***1569392561:** Correct-by-construction code generation from hybrid automata specification;*D. Bresolin; L. Di Guglielmo; L. Geretti; T. Villa (University of Verona, IT)***1569403627:** A Model-Based Design Methodology for Cyber-Physical Systems; *J. Jensen (National Instruments, USA); D. Chang**(University of California, Berkeley, USA); E. Lee (Berkeley, USA)***1569404869:** Cyber-Physical Security Using System-Level PUFs; *O. Al Ibrahim; S. Nair (SMU, USA)*

ThM-5: Room: A-103**Session Title:** Cooperative Communications, Net. Coding, Relaying II (Com. and Inf. Theory)**Session Chair:** Murat Uysal, University of Waterloo, Canada**1569391479:** Auction-Based Power Allocation for Many-to-One Cooperative Wireless Networks,*M. W. Baidas; A. B. MacKenzie (Virginia Tech, USA)***1569391959:** Full Rate Full Diversity Cooperative Extended Balanced Space-Time Block Coding for Wireless Multicasting,*A. Eksim Eksim (TUBITAK-BILGEM, TR); M. Celebi (Istanbul Technical Univ, TR)***1569392297:** Optimal Dual-cast Beamforming for Network Coding-based Two-way Relay Transmission, *Z. Xu**(Tsinghua University, P.R. China); H-C. Yang (University of Victoria, CA); P. Fan (Tsinghua University, CN); S. Yi**(NEC Labs, CN); M. Lei (NEC Laboratories, CN)***1569401695:** Orthogonal Space Time Block Coding for Two-way Wireless Relays Networks Under Imperfect Synchronization,*U. Mannai; F. Abdurahman; A. Elazreg; J. Chambers (Loughborough U, UK)***1569403797:** Performance Analysis of Cooperative-Diversity Wireless Systems with Adaptive Modulation and Imperfect Channel*State Information, H. Chen; M. H. Ahmed; R. Venkatesan (Memorial University of Newfoundland, CA)***1569404563:** Distributed Quasi-orthogonal type space-time block coding with maximum distance property for two-way wireless*relay networks, M. Manna; F. Abdurahman; J. Chambers (Loughborough U., UK)***1569404477:** Improved Topology Control for Multiradio Multichannel Wireless Mesh Networks with Directional Antennas,*N. Sadeghianpour; T. C. Chuah; Su Wei Tan (Multimedia University, MY)*

ThM-6: Room: A-104**Session Title:** Optimization for Multimedia Transmission (Multimedia over Wireless Symp.)**Session Chair:** D. J. Deng, National Changhua University of Education, Taiwan

1569400071: QoS-Aware Heterogeneous Networking Using Distributed Multiagent Schemes, J.L. Chen; Y.T. Larosa (National Taiwan U of Science and Technology, TW); D.J. Deng (National Changhua University of Education, TW); P.J. Yang (National Taiwan U of Science and Technology, TW)

1569398225: ROI-Based Error Resilient Coding of H.264 for Conversational Video Communication, F. Li (Xi'an Jiaotong U., P.R. CN); G. Yixin (Johns Hopkins University, USA)

1569403921: X-EDCA: A Cross-Layer MAC-Centric Mechanism for Efficient Multimedia Transmission in Congested IEEE 802.11e Infrastructure Networks,

A. Politis; I. Mavridis; A. Manitsaris (University of Macedonia, GR); C. Hilar (TEI of Serres, GR)

1569390623: Adaptive Statistical Sampling of VOIP Traffic in WLAN and Wired Networks Using Fuzzy Inference System, A. Dogman, R. Saatchi, S. Al-Khayatt, and H. Nwaizu (Sheffield Hallam University, UK)

1569400073: Threshold Optimization for SSB Access Control, Y.T. Larosa; J. L. Chen (National Taiwan University of Science and Technology, TW); D. J. Deng (National Changhua U of Education, TW)

ThM-7: Room: A-105**Session Title:** Multi-hop and Broadcast Communication (Vehicular Communications Symp.)**Session Chair:** Rui L Aguiar, University of Aveiro, Portugal

1569384617: Applying Machine Learning to the Design of Multi-Hop Broadcast Protocols for VANET, M. Slavik; I. Mahgoub (Florida Atlantic University, USA)

1569402173: A Reliable Routing Scheme for VANET Communications, X. Yu (Nat. U. of Singapore); H. Guo (I. for Infocomm Research, SG); W-Ch. Wong (Nat. U. of SG)

1569403673: Message Delivery Delay Analysis in VANETs with a Bidirectional Traffic Model, Y. Liu (BUPT, CN); J. Niu (Beihang University, CN); G. Qu (Oakland University, USA); Q. Cai (BUAA, CN); J. Ma (Wuxi Sensingnet Industrialization Research Institute, CN)

1569404483: SERVUS: Reliable low-cost and disconnection-aware broadcasting in VANETs, R. Gortiz (UPMC Sorbonne Universités, FR); P. Spathis (LIP6 - University of Paris VI, FR); M. Dias de Amorim (UPMC Sorbonne Universités, FR); R. Wakikawa (Toyota ITC, USA, Inc., USA); S. Fdida (UPMC Sorbonne Universités, FR)

1569404887: Broadcast Control-Based Routing Protocol for Internet Access in VANETS, A. Adama Ba; A. Hafid (U. of Montreal, CA); Jawad Drissi (Cameron University, USA)

1569403765: A Quantitative Analysis of Improved DSRC System using Repetition Based Broadcast Safety Messaging with Hidden Terminals, N. Jaber; K. Atiqur Rahman; E. Abdel-Raheem; Kemal Tepe (University of Windsor, CA)

LUNCH BREAK (12:00 – 13:30) — Cafeteria Room and Garden (Ground Floor)

Thursday Afternoon Sessions (ThA) — (13:30 - 15:30)

ThA-1: Room: Fazil Say Conference Hall**Session Title:** Network Traffic Analysis and Classification: from Theory to Practice (TRAC Workshop)**Session Chair:** Brian Trammell, ETH Zurich, Switzerland

1569409375: On-line SVM traffic classification, A. Este; F. Gringoli, L. Salgarelli (U. of Brescia, IT)

1569404605: On the processing time for detection of Skype traffic, P. Del Río; J. Ramos; J. García-Dorado; J. Aracil (U. Autonoma de Madrid, ES); A. Cuadra-Sanchez (Indra, ES); M. Cutanda-Rodriguez (Telefonica R&D, ES)

1569390981: GBSA: A Group Based Search Algorithm for Packet Classification O. Ahmed; S. Areibi (University of Guelph, CA)

1569403011: Detecting P2P Traffic from the P2P Flow Graph, J. Kim (U. of Delaware, US); K. Shah (Altusystems Corp, US); S. Bohacek (U. of Delaware, US)

1569404929: Practical Network Traffic Analysis in P2P Environment, T. Ban (NICT, JP); S. Guo (Shandong U, CN); Z. Zhang (TELECOM, FR); R. Ando (NICT, JP); Y. Kadobayashi (NIST, JP)

1569393007: Disambiguating HTTP: Classifying Web Applications, R. Archibald (UC Davis, US); C. Corbett (Johns Hopkins University, US); D. Ghosal; Y. Liu (UC Davis, US)

ThA-2: Room: A-101**Session Title:** Cooperative Networks (Wireless Networking Symp.)**Session Chair:** D. Tsang, Hong Kong University of Science and Technology, Hong Kong**Session Co-Chair:** Abderrezak Rachedi, University Paris-Est, Champs-sur-marne, France

1569391527 Cooperative Fingerprint-based Indoor Localization using Self-Organizing Maps, A. Papapostolou (ENSIIE, FR), W. Xiao (Inst for Infocomm Research, SG), H. Chaouchi (Tel Sud Paris, FR)

1569391775 Cooperative Joint Precoding for Relay Enhanced Cellular System: Design and Performance Evaluation; J-W. Kwon (Korea University, KR), K-H. Park (KAUST, SA), Y-C. Ko (Korea University, KR), H-C. Yang (University of Victoria, CA)

1569392653 Optimal Energy-efficient Cooperative Sensing Scheduling for Cognitive Radio Networks with QoS Guarantee; X. Sun, T. Zhang, D. Tsang (HKUST, HK)

1569403443 A Cooperative MAC Protocol in Multi-Channel Wireless Ad Hoc Networks
Tsung-Chin Shih, Chien-Chi Kao, Shun-Ren Yang (National Tsing Hua University, TW)

1569406617 Quantized Variational Filtering for Target Tracking and Relay Localization in Sensor Networks; M. Mansouri, L. Khoukhi, H. Snoussi (University of Technology of Troyes, FR), C. Richard (Universite de Nice Sophia-Antipolis, FR)

1569404879: Interval-based localization for mobile sensors in low-anchors density networks, F. Mourad, H. Snoussi (University of Technology of Troyes, FR), C. Richard (Universite de Nice Sophia-Antipolis, FR)

1569404565: Optimal Path Selection for Quantized Target Tracking in Distributed Sensor Networks, M. Mansouri, H. Snoussi (University of Technology of Troyes, FR), C. Richard (Universite de Nice Sophia-Antipolis, FR)

ThA-3: Room: A-102**Session Title:** Modeling and Optimization (Wireless Sensor Networks Symp.)**Session Chair:** Wuyi Yue, Konan University, Japan**Co-chair:** Tomohiko Taniguchi, Fujitsu Laboratories Limited, Japan

1569391379: Traffic-Aware Game Based Channel Assignment in Wireless Sensor Networks,
F. Jiang; H. Liu; L. Shi (Southeast University, CN)

1569404537: Optimized Relay Repositioning for Wireless Sensor Networks Applied in Environmental Applications, F. Al-Turjman; H. Hassanein; M. Ibnkahla (Queen's University, CA)

1569404881: A Novel Linear Programming Formulation of Maximum Lifetime Routing Problem in Wireless Sensor Networks,
B. Kartal Cetin; N. Rashmi Prasad; R. Prasad (Aalborg University, DK)

1569405015: Performance Modeling and Simulation Studies of MAC Protocols in Sensor Network Performance, H. Sahota; R. Kumar; A. Kamal (Iowa State University, USA)

1569403977: Virtual Grouping Byzantine Agreement: a Compromised Consensus Scheme for a Cooperative Network, H-C. Yueh; J-S. Leu (National Taiwan Univ. of Science and Technology, TW)

1569391295: Fastest Mixing Markov Chain on Symmetric K-Partite Sensor Networks,
S. Jafarizadeh; A. Jamalipour (University of Sydney, AU)

ThA-4: Room: Cinema**Session Title:** Network Protocols (Wireless Networking Symp.)**Session Chair:** Mahasweta Sarkar, San Diego State University, USA

1569389975 A SINR Based MAC Layer Protocol for Multi- Channel Ad-Hoc Networks
M. Sarkar, S. Nagaraj, I. Balsania (San Diego State University, USA)

1569400095 An OFDMA Communication Protocol for Wireless Sensor Networks used for Leakage Detection in Underground Water Infrastructures;

E. Yaacoub, A. Kadri, A. Abu-Dayya (QU Wireless Innovations Center, QA)

1569404829 Scheduling Algorithm for Multimedia Services in Relay Based OFDMA Cellular Networks
L. Xiao (Nanchang U., CN), T. Zhang (BUPT, CN), L. Cuthbert, G. Su (Queen Mary U. of London, UK)

1569391235 On Efficient Multipolling with Various Service Intervals for IEEE 802.11e WLANs
C-W. Chou, K. Ching-Ju Lin (Academia Sinica, TW), T-H. Lee (National Chiao Tung University, TW)

1569401225 Analytical Characterization of the Lowest Delay Bound in Bluetooth 2.0+EDR Transmissions
R. Luque-Giráldez, M. Moron, Eduardo Casilari (University of Malaga, ES)

ThA-5: Room: A-103**Session Title:** Human Centric Communications and Networking Workshop**Session Chair:** Phone Lin, National Taiwan University, Taiwan

1569391119: User-Generated E-Books from Facebook Contents, *Chen-Yuan Chuang (Chunghwa Telecom, Taiwan); Yi-Bing Lin (National Chiao Tung U, TW); Zhihao Ren (National Chiao Tung U, TW); Yu-Tien Yeh (National Chiao Tung U, TW)*

1569392337: Real-time Information Distribution at a Shopping Mall using Android Phones, *Hiroto Aida (Keio University, JP)*

1569392363: UWB-based Wireless Body Area Networks Channel Modeling and Performance Evaluation, *X. Lu; X. Chen; S. Guang; D. Jin; N. Ge; L. Zeng (Tsinghua University, CN)*

1569397143: Advertising in Human Centric Communication Networks, *Yu-Feng Chou (National Taiwan U. of Science and Technology, TW); Ray-Guang Cheng (National Taiwan U of Science and Technology, TW); Pei-Yuan Ku (National Taiwan U. of Science and Technology, TW)*

1569404171: Height Pattern Evaluation for Coverage Area Designing on Upper Floors of Multi-story Buildings, *Yuki Hirota (KDDI R&D Laboratories, Inc., JP)*

1569404179: iShare: An Ad-hoc Sharing System for Internet Connectivity, *H-M. Lin; H-Y. Lin; A-C. Pang (National Taiwan U, TW); Chih-Wen Hsueh (National Taiwan U, TW)*

1569407113: Cooperative Localization for Wireless and Mobile Social Networking Service, *Y-C. Chen; C-T. Chou; C-Y. Chen (National Taiwan University, TW)*

ThA-6: Room: A-104**Session Title:** Multimedia Services & Technologies (Multimedia over Wireless Symp.)**Session Chair:** H. Wang, University of Massachusetts Dartmouth, USA

1569404031: Common Feedback Channel for Multicast and Broadcast Services, *R.G. Cheng; Y.Y. Liu; W.Y. Cheng; D.R. Liu (National Taiwan Univ. of Science and Technology, TW)*

1569404759: A Study on Heterogeneous Sensing and Networking Platform for Intelligent Transportation System, *J. Huang; H. Wang; H. Liu (University of Massachusetts Dartmouth, USA)*

1569404771: Seamless Data Visualization for Frost Detection, *J. Huang; I. Azogu; A. Sunkara; H. Liu; H. Wang; H. Miller (University of Massachusetts Dartmouth, USA)*

1569404253: On the Datacasting Scheme over Chinese DTTB Systems Using Signal Space Diversity, *X. Wang; F. Yang; J. Wang (Tsinghua University, CN)*

1569401509: CORE-4: Cognition Oriented Relaying Exploiting 4-D Spectrum Holes, *X. Wang; J. Liu; W. Chen; Z. Cao (Tsinghua University, CN)*

ThA-7: Room: A-105**Session Title:** Social Networking**Session Chair:** Tarik Taleb, NEC-Europe

1569392037: Evaluation Performance of Anti Collision Circuit Based BSS Method for RFID System, *M. Ounas; S. Chitroub (USTHB, Algeria); R. Touhami (Université des Sciences et de La Technologie Houari Boumediene, DZ); M. Yagoub (University of Ottawa, CA)*

1569404295: Study on a Strategy for Spectrum Efficiency Enhancement of DTV White Space in Korea, *H. Kim (Keio University, JP); H. Yoon (Myongji College, KR); H. Sunahara (Keio University, JP)*

1569404383: VN-tree for Efficient Nearest Neighbors Search in Location Based Services, *H. Slimani (Faculty of Sciences-Elmanar, TN); F. Najjar (National School of Computer Sciences, TN)*

1569404747: An Integrated Transportation System for Baseband data, Digital, and Analogue Radio Signals over Fibre Network, *S. Reza Abdollahi; H. Al-Raweshidy; R. Nilavalan, A. Ahmadiania (Brunel University, UK)*

1569404957: An Artificial Chemistry based Framework for Personal and Social Context Aware Smart Spaces, *A. Ikram; N. Baker (University of the West of England, UK); M. Knappmeyer (University of Applied Sciences Osnabrück, DE); E. Reetz (University of the West of England, UK); R. Tönjes (University of Applied Sciences Osnabrück, DE)*

1569405031: Precision Agriculture Monitoring Framework Based on WSN, *Y. Jiber; H. Harroud (Al Akawayn University, MO); A. Karmouch (University of Ottawa, CA)*

COFFEE BREAK (15:30-16:00) — Building C, First Floor

Thursday Afternoon Sessions (ThA) — (16:00 - 18:00)

ThA-8: Room: Fazil Say Conference Hall

Session Title: Federation of Wireless Sensor Systems (FedSenS Workshop)

Session Chair: Kemal Akkaya, Southern Illinois University Carbondale, USA

Session Co-Chair: Ismail Ari, Ozyegin University, Istanbul, Turkey

1569400433: Building blocks for secure multiparty federated wireless sensor networks,

C. Huygens; N. Matthys; J. Maerien (K.U.Leuven, BE); Daniel Hughes (Xi'an Jiaotong-Liverpool University, CN); Wouter I Joosen (University of Leuven, BE)

1569421925: Protecting bridges: reorganizing sensor networks after catastrophic events, *L. Boloni; D. Turgut (University of Central Florida, USA)*

1569402981: Investigation of Querying Techniques for Federated Sensor Networks,

M. Demirbas; Z. Tepecik Can (SUNY Buffalo, USA)

1569404577: Optimized Relay Placement to Federate Wireless Sensor Networks in Environmental Applications, *F. Al-Turjman;*

H. Hassanein; M. Ibnkahla (Queen's University, CA)

1569404687: Restoring Connectivity in Wireless Sensor-Actor Networks with Minimal Node Movement, *A. Abbasi (KFUPM, Saudi Arabia); M. Younis (University of Maryland Baltimore County, USA); U. Baroudi (KFUPM, SA)*

1569410711: Finding Event Correlations in Federated Wireless Sensor Networks,

Ismail Ari; Omer Faruk Celebi (Ozyegin University, TR)

1569410081: Least Distance Movement Recovery Approach for Large scale Wireless Sensor and Actor Networks, *A. Alfadhly;*

U. Baroudi (KFUPM, SA); M. Younis (U of Maryland-Baltimore County, USA)

ThA-9: Room: A-101

Session Title: Power Control (Wireless Networking Symp.)

Session Chair: Feza Buzluca, Istanbul Technical University, Turkey

1569392059: Joint Optimization of Uplink Power Control Parameters in LTE-Advanced Relay Networks

O. Bulakci, A. Awada (Nokia Siemens Networks, DE), A. Bou Saleh (Aalto University, DE), S. Redana (Nokia Siemens Networks, DE), J. Hämäläinen (Helsinki University of Technology, FI), B. Wegmann, B. Raaf (Nokia Siemens Networks, DE), I. Viering (Nomor Research GmbH, DE)

1569391503: Multi-objective Distributed Power Control for Spectrum-sharing Cognitive Radios

R. Duan, M. Elmusrati (University of Vasa, FI)

1569392713: On the Impact of Links Characterization and Power Allocation in Relay Assisted Communications;

C. La Palombara (IEIIT-CNR, IT), A. Conti, B. Masini (IEIIT-CNR, IT), V. Tralli (University of Ferrara, IT)

1569404223: Femtocell BS Power Control by Using Game Theory Approach for Two-Tier WiMAX Networks; *J. Chen,*

C-Y. Sheng (Chang Gung U, TW), Y-F. Hsiao (Institute for Information Industry, TW)

1569404907: A Methodology for Selecting Experiments to Measure Energy Costs in Smartphones

R. Arya, R. Palit, K. Naik (University of Waterloo, CA)

ThA-10: Room: A-102

Session Title: Resource Allocation and Management-III (Wireless Networking Symp.)

Session Chair: Nidal Nasser, Guelph University, Canada

1569404561: Hybrid Spectrum Allocation Scheme in wireless cellular networks

R. George (Alcatel Lucent, UK), O. Aliu, M. Ali Imran (University of Surrey, UK)

1569392399: Optimized Prophet Address Allocation (OPAA) for Body Area Networks

S. Movassaghi, M. Abolhasan (University of Technology Sydney, AU), Justin Lipman (Intel R&D, CN)

1569392549: Traffic-Prediction-Assisted Dynamic Bandwidth Assignment for Hybrid Wireless Optical Networks; *M. Mirahmadi,*

A. Shami (The University of Western Ontario, CA)

1569392597: AFDX Wireless Scheduler and Free Bandwidth Managing in 802.11e (HCCA)/AFDX Network, *B. Sambou,*

F. Peyrard (University of Toulouse, FR), C. Fraboul (ENSEEIH, FR)

1569391455: Data offloading method for interference and mobility management in femtocell systems

Z. Zhu (Loughborough U, UK), Z. Fan, F. Cao (Toshiba Europe Res. Telecom., UK), Y. Sun (Huawei, UK)

ThA-11: Room: Cinema**Session Title:** Emergency management (EMCCP Workshop)**Session Chair:** Bin Liu, University of Science and Technology of China, P. R. China**Session Co-Chair:** Ciprian Dobre, University Politehnica of Bucharest, Romania

1569384405: Consistent Reconfiguration Protocols for Adaptive High-Performance Applications, C. Bertolli (*Imperial College London, UK*); G. Mencagli; M. Vanneschi (*University of Pisa, IT*)

1569391477: Mobile Computing in Digital Ecosystems: Design Issues and Challenges, G. D'Angelo; S. Ferretti; V. Ghini; F. Panziera (*University of Bologna, IT*)

1569391571: A Context Aware MAC Protocol for Medical Wireless Body Area Network, Z. Yan, B. Liu (*University of Science and Technology of China, CN*)

1569392453: A Model for Traffic Control in Urban Environments, V-A. Dragoi; C. Dobre (*University Politehnica of Bucharest, RO*)

1569404397: Security Issues in Emergency Networks, A. Paganelli; M. Casoni (*University of Modena and Reggio Emilia, IT*)

1569408505: DMR Networks for Health Emergency Management: A Case Study, T. Onali; M. Sole; D. Giusto; (*University of Cagliari, IT*)

1569409197: Droid Jacket: Using an Android based smartphone for Team Monitoring, M. Colunas; J. M. Fernandes; I. Oliveira; J. Silva Cunha (*U of Aveiro, PT*)

ThA-12: Room: A-103**Session Title:** Performance Analysis (Wireless Networking Symp.)**Session Chair:** Mahasweta Sarkar, San Diego State University, USA

1569401681 Performance Evaluation of the Network Lifetime for Routing Protocols in WSN M. Senouci (*EMP, DZ*), A. Mellouk (*UPEC, Univ Paris-Est, FR*), A. Amar (*USTHB, DZ*), S. Hadj (*MTU, DZ*)

1569404275 Performance Evaluation of Link to System Interface for Long Term Evolution System Z. Hanzaz, H. Schotten (*University of Kaiserslautern, DE*)

1569404653 Mobile Accelerator: A New Approach to Improve TCP Performance in Mobile Data Networks K. Liu, J. Lee (*The Chinese University of Hong Kong, HK*)

1569392499 A new Adaptive Differentiated P-Persistent CSMA Protocol that reduces the effect of the transmission errors on the system Throughput Performance; S. Abukharis, T. O'Farrell (*U of Swansea*)

1569391881 Markov Analysis of the Mobile Hidden Station Problem in MANET K. Atiqur Rahman, N. Jaber, K. Tepe (*University of Windsor, CA*)

ThA-13: Room: A-104**Session Title:** MIMO and Cellular Systems (General Symp.)**Session Chair:** Mehrdad Dianati, University of Surrey, United Kingdom

1569388249: Impact of Directive Handset Antennas on the Performance of Outdoor-to-Indoor MIMO Systems, A. Ghasemi; A. Basri; J. Sydor (*Communications Research Centre, CA*)

1569392461: A Simulation Based Study of Mobile Femtocell Assisted LTE Networks, F. Haider; M. Dianati; R. Tafazolli (*University of Surrey, UK*)

1569392129: Petri Net Modelling of Network Selection for Integrated Cellular/WLAN Networks S. Yang (*Beijing Jiaotong University, CN*); W. Song (*University of New Brunswick, CA*); Z. Zhong (*Beijing Jiaotong University, CN*)

1569404347: An Integer Frequency Offset Estimation Scheme Robust to Fractional Frequency Offset Variation, Y. Lee; S. Goo Kang; J. Kim; S. Yoon (*Sungkyunkwan University, KR*)

1569398407: An Extension of NS-2 to Support Multiple Networks, C. Jin; T. Kunz (*Carleton Univ, CA*)

ThA-14: Room: A-105

Session Title: Mobile Computing (Mobile Computing Symp.)

Session Chair: Tarik Taleb, NEC-Europe

Session Chair: Jad Nasreddine, RWTH Aachen University, Germany

1569390281: QoS-Aware Joint Policies in Cognitive Radio Networks,

S. Salehkaleybar; S. A. Majd; M. Reza Pakravan (Sharif University of Technology, IR)

1569391887: An Efficient Implementation of PRACH Generator in LTE UE Transmitters,

Y. He; J. Wang; Y. Su (Chinese Academy of Science, CN); E. Dutkiewicz (Macquarie U, AU); X. Huang (CSIRO ICT Centre, AU);

J. Shi (Chinese Academy of Sciences, CN)

1569392011: A Routing Framework for Delay Tolerant Networks Based on Encounter Angle,

Y. Cao; H. Cruickshank; Z. Sun (University of Surrey, UK)

1569402311: G-ER: Group-Epidemic Routing for Mobile Ad Hoc Networks with Buffer Sharing Mechanism, *Li. Fu Xie; P. H. J.*

Chong; Y. L. Guan; B. C. Ng (Nanyang Technological University and DSO National Laboratories, SG)

1569404757: Diversity Combining for Mobile FSO Nodes in SIMO Setup, *H. Moradi; H. Refai (Oklahoma U, USA); P. LoPresti*

(Tulsa U, USA); M. Atiquzzaman (U. of Oklahoma, USA)

1569404835: Per-application Mobility Management: Performance Evaluation of the UPMT Solution, *M. Bonola; S. Salsano*

(University of Rome "Tor Vergata", IT)

1569404873: Survivability Analysis of Mobile Cyber Physical Systems with Voting-Based Intrusion Detection, *R. Mitchell; I-R.*

Chen (Virginia Tech, USA)

1569405677: Design and Implementation of Utility-Based Radio Resource Optimization Using CAPRI, *K. Rerkrai; J. Nasreddine*

(RWTH Aachen U, Germany); Z. Wang (European Microsoft Innovation Center, DE); J. Riihijärvi; P. Mähönen (RWTH Aachen

University, DE)

19:00 — FREE EVENING

Open Time: Taksim District

Hosts: Nizamettin Aydin (Yildiz Technical University, Istanbul, Turkey)

Yalcin Cekic (Bahcesehir University, Istanbul, Turkey)



Technical Program
IEEE IWCMC 2011
Istanbul, Turkey,
July 4 - 8, 2011
Friday, July 8, 2011



Visits of Historical sites in Istanbul (All Day)

Excursion I: Old City Tour

Explore the main cultural highlights of Istanbul's opulent past - the grandiose Topkapi Palace, the glittering Grand Bazaar, the magnificent Hagia Sophia Church, the elegant Blue Mosque and ancient Hippodrome, set among the cobbled streets of the old Imperial quarter and heart of ancient Byzantium & Constantinople...

- **Max attendees:** 50 on First-Come-First-Serve basis.
- **Expected cost per attendee:** US\$105 per person

Excursion II: Bosphorus Cruise Tour

Discover the wealth of impressive sights all along the shores in a Bosphorus boat trip along Istanbul's famous waterway dividing Europe and Asia - take in the colors and aromas of the **Spice Market**, the tiny **Rustem Pasha Mosque**, a **Bosphorus Cruise Sightseeing Tour**, the sumptuously decorated **Ottoman Beylerbeyi Palace** and the small picturesque fishermen's village of **Ortakoy** ...

- **Max attendees:** 50 on First-Come-First-Serve basis.
- **Expected cost per attendee:** US\$95 per person

Excursion III: Pera and Golden Tour

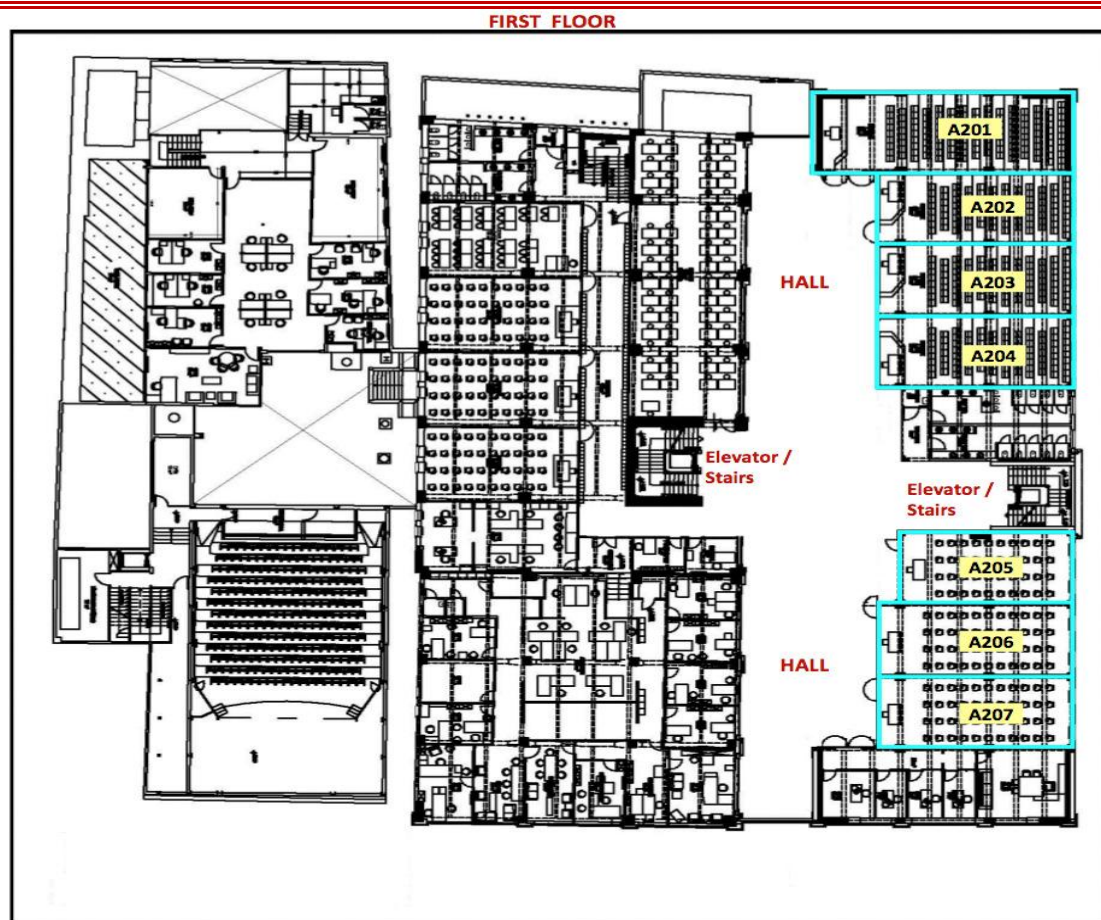
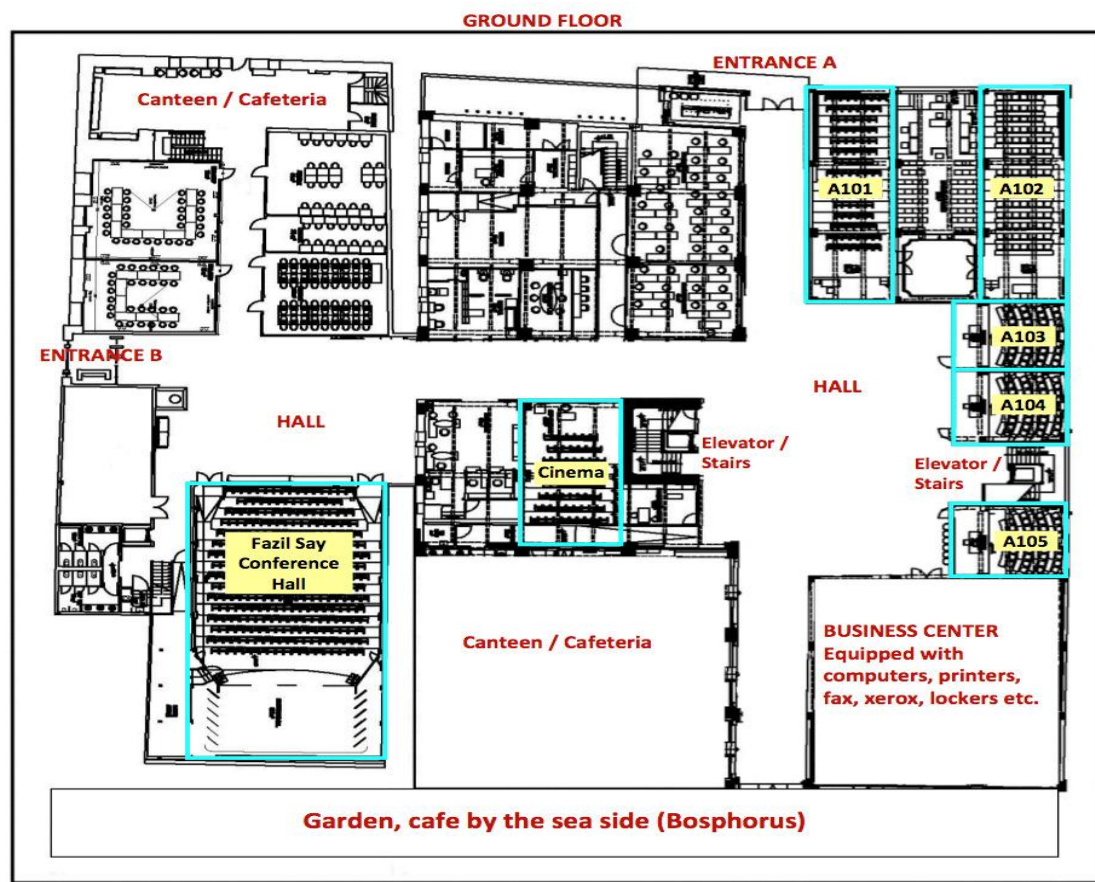
Stroll the classical old quarters where Greek, Italian and Jewish communities flourished along the **Golden Horn** admire the great **Suleymaniye Mosque**, the beautiful Byzantine mosaics of the **Church of Chora**, the vibrant streets of the French influenced **Pera - Beyoglu** area and the **Genoese Galata Tower** with stunning views across the Golden Horn, Marmara Sea and Princess Islands.

- **Max attendees:** 50 on First-Come-First-Serve basis.
- **Expected cost per attendee:** US\$100 per person

For more information, please contact Local Arrangements and Social Events Chairs:

- **Ercan Erturk**, - ercanerturk@eng.bahcesehir.edu.tr
- **Nizamettin Aydin** - nizamettin.aydin@gmail.com
- **Yalcin Cekic**, - yalcin@eng.bahcesehir.edu.tr

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The IWCMC 2012 program will feature a number of symposia, workshops, invited presentations, special sessions, and pioneering keynote speakers. More information can be found at the conference website: <http://iwcmc.org/2012>. Prospective authors are invited to submit original technical papers — up to 6 pages of length, using the EDAS link: <http://edas.info> to various IWCMC 2012 Symposia and Workshops as listed in the conference website for possible publication in the IWCMC 2012 Conference Proceedings, which will be included in the IEEE Digital Library. Selected papers will be further considered for possible publication in three special issues in the following Journals:

1. Wiley Journal of *Wireless Communications and Mobile Computing* (WCMC)
<http://www3.interscience.wiley.com/journal/76507157/home>
2. The *International Journal of Sensor Networks* (IJSNet)
<http://www.inderscience.com/browse/index.php?journalCODE=ijsnet>
3. The *International Journal of Autonomous and Adaptive Communications Systems* (IJAAACS): www.inderscience.com/ijaacs
4. KSII Transactions on Internet and Information Systems: www.itiis.org

There will also be best paper awards, one best symposium award, and one best Workshop award.

Important Dates

Paper Submission Deadline: 15 December 2011
Paper Acceptance Notification: 25 March 2012
Camera-ready Paper Submissions: 30 April 2012
Registration Deadline for Authors: 30 April 2012

