

IEEE IWC MC 20112: Technical Program at a Glance
Limassol, Cyprus, August 27—31, 2012

DATE	TIME	ROOM					
August 27, 2012 (Monday) TUTORIALS	9:00-12:00	HALL-B			HALL-C		
		T1: Network Anomaly Detection: from basics to advanced methods By: Christian Callegari, University of Pisa, Pisa, Italy			T2: Multihoming: Scheduling, Modelling, and Congestion Window Management By: Abdallah Shami, The University of Western Ontario, Canada		
	12:00-13:30	LUNCH BREAK					
	14:00-17:00	T3: The Cloud, the Edge & Beneath: Cloud-Sensor Architectures and Optimizations By: Abdelsalam (Sumi) Helal, University of Florida, USA			T4: Machine to Machine communication, challenges and solutions By: Jelena Mistic, Ryerson University, Canada		
19:00-20:00	WELCOME RECEPTION						
August 28, 2012 (Tuesday) SESSIONS		Hall-A	Hall-B	Hall-C	EVAGORAS	TEFKROS	TEFKROS
	8:30-9:00	WELCOME & OPENING					
	9:00-10:00	KEYNOTE 1: Michele Zorzi, University of Padova, Italy TITLE: Underwater Networking					
	10:00-10:30	COFFEE BREAK					
	10:30-12:30	TM-1	TM-2	TM-3	TM-4	TM-5	TM-6
	12:30-13:30	LUNCH BREAK					
	13:30-15:30	TA-1	TA-2	TA-3	TA-4	TA-5	TM-6
	15:30-16:00	Coffee Break					
	16:00-18:00	TA-7	TA-8	TA-9	TA-10	TA-11	TA-12
19:00-22:00	NIGHT OUT (Organized by "SamrtEvents")-Check conference website for more information						
August 29, 2012 (Wednesday) SESSIONS	9:00-10:00	KEYNOTE 2: Raouf Boutaba, University of Waterloo, Canada TITLE: Wireless Mesh Networks: Research vs. Reality					
	10:00-10:30	Coffee Break					
	10:30-12:30	WM-1	WM-2	WM-3	WM-4	WM-5	WA-6
	12:30-13:30	LUNCH BREAK					
	13:30-15:30	WA-1	WA-2	WA-3	WA-4	WM-5	WA-6
	15:30-16:00	Coffee Break					
	16:00-18:00	WA-7	WA-8	WA-9	WA-10	WA-11	WA-12
19:00-21:00	DINNER BANQUET						
August 30, 2012 (Thursday) SESSIONS	9:00-10:00	KEYNOTE 3: Hossam Hassanein, Queen's University, Canada TITLE: Towards Global IoT – Resource Reutilization					
	10:00-10:30	Coffee Break					
	10:30-12:30	ThM-1	ThM-2	ThM-3	ThM-4	ThM-5	ThM-6
	12:30-13:30	LUNCH BREAK					
	13:30-15:30	ThA-1	ThA-2	ThA-3	ThA-4	ThA-5	ThM-6
	15:30-16:00	Coffee Break					
16:00-18:00	ThA-7	ThA-8	ThA-9	ThA-10	ThA-11	ThM-12	
August 31, 2012 (Friday)	EXCURSIONS (Organized by "Smart Events")—Check website for more information						

**Technical Program of IEEE IWCMC 2012
Limassol, Cyprus, August 27—31, 2012
Monday, August 27, 2012**

Registration: (8:00-15:00)

Room: Open Hall

Tutorial 1 (9:00-12:00)

Room: HALL-B

Speaker: Christian Callegari, University of Pisa, Pisa, Italy

Title: Network Anomaly Detection: from basics to advanced methods

Chair: Sandrine Vaton, Telecom Bretagne, France

Tutorial 2 (9:00-12:00)

Room: HALL-C

Speaker: Abdallah Shami, The University of Western Ontario, Canada

Title: Multihoming: Scheduling, Modelling, and Congestion Window Management

Chair: Jelena Mistic, Ryerson University, Canada

LUNCH BREAK (12:00 – 13:30)

Tutorial 3 (14:00-17:00)

Room: HALL-B

Speaker: Abdelsalam (Sumi) Helal, University of Florida, USA

Title: The Cloud, the Edge & Beneath: Cloud-Sensor Architectures and Optimizations

Chair: Christian Callegari, University of Pisa, Pisa, Italy

Tutorial 4 (14:00-17:00)

Room: HALL-C

Speaker: Jelena Mistic, Ryerson University, Canada

Title: Machine to Machine communication, challenges and solutions

Chair: Abdallah Shami, The University of Western Ontario, Canada

WELCOME RECEPTION (19:00-20:00)

Technical Program of IEEE IWCMC 2012
Limassol, Cyprus, August 27—31, 2012
Tuesday, August 28, 2012

Registration: (8:00-15:00)

Room: Open Hall

Opening Session: (8:30-9:00)

Room: HALL-A

Speaker: Conference Chairs

KEYNOTE 1 (9:00-10:00)

Room: HALL-A

Speaker: Michele Zorzi, University of Padova, Italy

Title: Underwater Networking

Chair: Abdelsalam (Sumi) Helal, University of Florida, USA

COFFE BREAK (10:00 – 10:30)

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

TM-1: Room: HALL-A

Session Title: INVITED PAPERS

Session Chair: Koichi Asatani, Kogakuin University, Japan

1569572153: Distributed Collaborative Beamforming with Minimum Overhead for Local Scattering Environments, Slim Zaidi; Sofiene Affes (INRS-EMT, Canada)

1569588455: A New Application Level Link Aggregation and Its Implementation on Android Terminals, Takafumi Takiguchi (Kogakuin University, Japan); Hiromu Masui (Fujitsu Network Solutions Limited, Japan); Akira Hidaka; Yoshio Sugizaki; Osamu Mizuno; Koichi Asatani (Kogakuin University, Japan)

1569575523: Buffer-Aided Relaying with Mixed Rate Transmission, Nikola Zlatanov; Robert Schober (University of British Columbia, Canada)

1569589017: Epsilon-Overflow Rate: Buffer-aided Information Transmission over Nakagami-m Fading Channels, Yunquan Dong; Pingyi Fan (Tsinghua University, P.R. China); Khaled Ben Letaief (Hong Kong University of Science & Technology, Hong Kong); Ross Murch (HKUST, Hong Kong)

1569591981: Base Stations Locations Optimization in an Airport Environment using Genetic Algorithms, Imad Eldin Ahmed; Bilal R Qazi; Jaafar Elmirghani (University of Leeds, United Kingdom)

1569555555: DCUDP: A UDP-like Protocol for Reliable Transmission in Data Centers, M. Hamdi, HKUST, HK

LUNCH BREAK (12:00 – 13:30)

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

TA-1: Room: HALL-A

Session Title: Network Structural Analysis (TRAC Workshop)

Session Chair: Christian Callegari, University of Pisa, Pisa, Italy

Session Co-chair: Sandrine Vaton, Telecom Bretagne, France

1569543531: A Distributed DNS Traffic Monitoring System, Luca Deri; Lorenzo Luconi Trombacchi; Maurizio Martinelli, Daniele Vannozi (IIT/CNR, Italy)

1569569073: Traffic vs Topology in Network Clustering: Does it Matter? Sancho Salcedo-Sanz (Universidad de Alcala, Spain); Maurizio Naldi (University of Rome "Tor Vergata", Italy); Leo Carro-Calvo (Universidad de Alcala, Spain); Luigi Laura (Sapienza University of Rome, Italy); Antonio Portilla (University of Alcala De Henares, Spain); Giuseppe F. Italiano (University of Rome "Tor Vergata", Italy)

1569569181: Real-time Analysis of Critical Nodes in Network Cores, Giorgio Ausiello; Donatella Firmani; Luigi Laura (Sapienza University of Rome, Italy)

1569545023: Online Anomaly Detection by Using N-gram Model and Growing Hierarchical Self-Organizing Maps, Mikhail

Zolotukhin; Timo Hamalainen; Antti Juvonen (University of Jyväskylä, Finland)

1569565217: On the Real Impact of Path Inflation in Networks Under Production, Felipe Mata; Roberto Gonzalez-Rey; Jose Luis Garcia-Dorado; Javier Aracil (Universidad Autonoma de Madrid, Spain)

TA-2: Room: HALL-B

Session Title: Resource Allocation and Management I (Wireless Networking Symposium)

Session Chair: Najah A. Abu Ali (UAE University, UAE)

1569557075: Efficient Resource Allocation for Wireless Virtualization Using Time-Space Division,

Xu Zhang; Yong Li; Depeng Jin; Li Su; Lieguang Zeng (Tsinghua University, P.R. China); Pan Hui (Deutsche Telekom Laboratories, Germany)

1569557583: New Insights from a Delay Analysis for Cognitive Radio Networks with and without Reservation, Mouna Elmachkour; Abdellatif Kobbane (ENSIAS, University Mohammed V-Souissi, Morocco); Essaid Sabir (University of Avignon, France); Mohammed El Koutbi (University Mohamed V - Souissi, Morocco)

1569556013: Disease Tracking Service in Urban Areas, Stephane Cormier; Hacene Fouchal; Itheri Yahiaoui (University of Reims Champagne-Ardenne, France)

1569539249: Adaptive Packet Reservation Multiple Access Protocol for Fixed Wireless Communications, Salman A AlQahtani (King Saud University, Saudi Arabia)

1569557705: A generic cross-layer architecture for autonomic network management with network wide knowledge, Wafa Berrayana (Manouba University Tunisia, lip6 laboratory Paris, Tunisia)

TA-3: Room: HALL-C

Session Title: Applications and Data Aggregation (Wireless Sensor Networks Symposium)

Session Chair: Yanjun Li, Zhejiang University of Technology, P.R. China

Session Co-chair: Nidal Nasser, Alfaisal University, KSA

1569555887: Monitoring the Reliability of Industrial Equipment Using Wireless Sensor Networks, A. El Kouche; H. S. Hassanein (Queen's University, Canada); K. Obaia (Oil and Energy, Canada)

1569556385: Data Survivability for WSNs via Decentralized Erasure Codes, Louai Al-Awami; Hossam S. Hassanein (Queen's University, Canada)

1569556257: Constructing Data Gathering Tree to Maximize the Lifetime of Unreliable Wireless Sensor Network under Delay Constraint, Yueyun Shen; Yanjun Li; Yi-hua Zhu (Zhejiang University of Technology, P.R. China)

1569556619: Towards Accurate and Robust Map-aid Indoor Human Tracking, Peisen Zhao (Tsinghua University, P.R. China); Chunxiao Jiang (University of Maryland, College Park, USA); H. Chen (The University of Tokyo, Japan); Yong Ren (Tsinghua University, Beijing, P.R. China)

1569557375: Combined methods to extend the lifetime of power hungry WSN with multimodal sensors and nanopower wakeups, Michele Magno (University of Bologna, Italy); Stevan Marinkovic (University College Cork, Ireland); Davide Brunelli (University of Trento, Italy); Luca Benini (University of Bologna, Italy); Emanuel M. Popovici (University College Cork, Ireland)

1569557463: Cross-layer Optimization Protocol for Guaranteed Data Streaming over Wireless Body Area Networks, Nedal Ababneh; Nick Francis Timmons (Letterkenny Institute of Technology, Ireland); Jim Morrison (WiSAR Lab - Letterkenny Institute of Technology, Ireland)

TA-4: Room: EVAGORAS
Session Title: Mobile Computing (Mobile Computing Symposium)
Session Chair: Periklis Chatzimisios, Alexander TEI of Thessaloniki, Greece

1569544883: A New Markovian Approach for Dynamic Bandwidth Allocation in Wireless Networks
Peppino Fazio; Mauro Tropea; Cesare Sottile (University of Calabria, Italy)
1569555767: Flow-Based Power Control in Cognitive Radio Ad-Hoc Network
To Ba Lam; Thi Mai Trang Nguyen; Guy Pujolle (University Pierre et Marie Curie - Paris 6, France)
1569556225: TCP-Freeze: Beneficial for Virtual Machine Live Migration with IP Address Change? Mehmet Vefa Bicakci;
Thomas Kunz (Carleton University, Canada)
1569556691: Dynamic Resource Allocation for MMOGs in Cloud Computing Environments
Chen-Fang Weng; Kuo Chen Wang (National Chiao Tung University, Taiwan)
1569557195: Cross Device Fingerprint-based Positioning using 3D Ray Tracing
Marios Raspopoulos (Sigint Solutions Ltd, Cyprus); Christos Laoudias (University of Cyprus, Cyprus); Loizos Kanaris; Akis Kokkinis (Sigint Solutions Ltd, Cyprus); Christos Panayiotou (University of Cyprus, Cyprus); Stavros Stavrou (University of Surrey, United Kingdom)
1569557757: Privacy-aware and Energy-efficient Geofencing through Reverse Cellular Positioning
Ulrich Bareth (Technische Universität Berlin, Germany)
1569557789: EnergySniffer: Home Energy Monitoring System using Smart Phones
Mostafa Abdulla Uddin; Tamer Nadeem (Old Dominion University, USA)

TA-5: Room: TEFKROS
Session Title: Cooperative Networks (Cooperative and Cognitive Networks Workshop)
Session Chair: Alvaro Araujo Pinto, Universidad Politecnica de Madrid, Spain

1569540979: Implementation of Opportunistic Cooperative Diversity in an Ad-Hoc Network using Commodity Hardware,
Craig S Cooper (University of Wollongong, Australia); Brett Hagelstein (University of Technology, Australia); Daniel Franklin
(University of Technology Sydney, Australia).
1569543525: Asynchronous Cooperative Spectrum Sensing in Multi-hop Cognitive Radio Networks, Yi Liu (South China
University of Technology, P.R. China); Yan Zhang (Simula Research Laboratory and University of Oslo, Norway); Rong
Yu (Guangdong University of Technology, P.R. China); Shengli Xie (South China University of Technology, P.R. China).
1569556763: Generalized Differential Distributed Space-time Block Codes using Co-efficient Vectors, Gbenga Owojaiye;
Yichuang Sun (University of Hertfordshire, United Kingdom).
1569567569: Distance Progress Based Opportunistic Routing for Wireless Mesh Networks, Amir Darehshoorzadeh;
Llorenç Cerda-Alabern (Universitat Politècnica de Catalunya, Spain).
1569568915: Generalized Beamforming (GBF) for MIMO Amplify-and-forward Relaying, Rahima Sayeb (ENIT, Tunisia)
1569545301: Software Defined Radio Architecture Survey for Cognitive Testbeds, Mickael Dardailon; Kevin Marquet;
Tanguy Risset (INSA Lyon, France); Antoine Scherrer (INRIA, France)

TA-6: Room: ONISILLOS
Session Title: OFDM/OFDMA (Communication & Information Theory Symp.)
Session Chair: Fumiyuki Adachi (Tohoku University, Japan)

1569544505: An Iterative Joint Channel Estimation and Data Detection Technique for MIMO-OFDM Systems, F. Delestre;
G. Owojaiye; Y. Sun (University of Hertfordshire, United Kingdom)
1569545389: Decision-Directed Tracking for Burst-Mode OFDM with Frequency Selective Channel, Lu Guanping; Jun
Wang; Chao Zhang; Zhaocheng Wang (Tsinghua Univ., P.R. China)
1569554149: High Efficiency Resource Allocation in Multicast OFDM Systems, M. Li (USTC, P.R. China); Y. Gu (National
Institute of Informatics, Japan); L. Qiang; B. Zhao (USTC, P.R. China)
1569557323: Signaling-Embedded Preamble Design for OFDM System with Transmit Diversity, Wenbo Ding; Fang Yang;
Jian Song; Lifeng He (Tsinghua University, P.R. China)

COFFEE BREAK (15:30-16:00)

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

TA-7: Room: HALL-A

Session Title: Relays (Communication & Information Theory Symp.)

Session Chair: Annamalai Annamalai (Prairie View A&M University, USA)

1569539927: A Novel Selective-Relaying Protocol for Cooperative IR-UWB Communications with PPM, Chadi Abou-Rjeily (Lebanese American University (LAU), Lebanon)

1569544359: Performance Analysis of Network-Coded Bi-Directional Relaying for Amplify-and-Forward Cooperative Wireless Networks, M. Baidas; A. MacKenzie; M. Buehrer (Virginia Tech, USA)

1569556587: A Successive Opportunistic Relaying Protocol with Inter-Relay Interference Mitigation, Nikolaos Nomikos; Demosthenes Vouyioukas (University of the Aegean, Greece)

1569557765: Asymptotic Error Rates Analysis for Multi-Hop Multi-Relay Cooperative Non-Regenerative Networks over Generalized Fading Channels, Annamalai Annamalai (Prairie View A&M University, USA)

1569554067: Optimal Power Allocation and Relay Location for Decode-and-Forward Dual-Hop Systems over Weibull Fading, M. Wang; Z. Zhong (Beijing Jiaotong University, P.R. China)

TA-8: Room: HALL-B

Session Title: Wireless Technologies II (Wireless Networking Symposium)

Session Chair: George Hadjichristofi, Frederick University, Cyprus

1569556981: Experimental Evaluation of Opportunistic Spectrum Access in Distributed Cognitive Radio Networks, Ahmed Khattab; Dmitri Perkins; Magdy Bayoumi (University of Louisiana, USA)

1569557051: Time-based and Low-Cost Bandwidth Estimation for IEEE 802.11 Links, J. Guerin (Univ. of Queensland, AU); S. Glass; P. Hu; W. L. T. (NICTA, AU); M. Portmann (Univ. of Queensland, Australia)

1569557137: Evaluating RaptorQ FEC over 3GPP Multicast Services, Christos Bouras; Nikolaos Kanakis; Vasileios Kokkinos; Andreas Papazois (University of Patras, Greece)

1569557559: DCF/USDMA: Enhanced DCF for Uplink SDMA Transmissions in WLANs, Ruizhi Liao; Boris Bellalta; Miquel Oliver (University Pompeu Fabra, Spain)

1569557663: Reversing the IEEE 802.11 Backoff Algorithm for Receiver-Initiated MAC Protocols
Tiago Bonfim; Marcelo M Carvalho (University of Brasilia, Brazil)

TA-9: Room: HALL-C

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

Session Chair: Jianming Wu (Fujitsu Research and Development Center, Co., LTD, P.R. China)

Session Co-chair: Tomohiko Taniguchi (Fujitsu Laboratories Limited, Japan)

1569557169: An Improved Common Channel Hopping MAC Protocol for Smart Meter Wireless Networks, Xiaojing Fan; Hao Wang; Jun Tian (Fujitsu R&D Center Co., Ltd., P.R. China)

1569557683: Space Diversity for Wireless Sensor Networks at 2.4 GHz,
Ruoshui Liu; Ian James Wassell (University of Cambridge, United Kingdom)

1569557691: Mixed TDMA/Simultaneous-Transmission Scheduling for Delay Sensitive Applications, Alaa Awad; Omar Nasr; Mohamed Khairy (Cairo University, Egypt)

1569562673: A Combined Relay-Selection and Routing Protocol for Cooperative Wireless Sensor Networks, Ahmed Ben Nacef (INP Toulouse, Tunisia); Sidi-Mohammed Senouci (University of Bourgogne - ISAT Nevers, France); Yacine Ghamri-Doudane (ENSIIE & Université Paris-Est (LIGM Lab), France); Andre-Luc Beylot (IRIT Toulouse, France)

1569557041: An Optimal Sensor Deployment Scheme to Ensure Multi Level Coverage and Connectivity in Wireless Sensor Networks, Arnab Raha; Shovan Maity; Mrinal Kanti Naskar (Jadavpur University, India); Omar Alfandi; Dieter Hogrefe (University of Goettingen, Germany)

TA-10: Room: EVAGORAS

Session Title: Wireless Technologies I (Wireless Networking Symposium)

Session Chair: Hazem Refai, Oklahoma University, USA

1569544473: Enhanced Frequency Hopping for Reliable Interconnection of Low Power Smart Home Devices, Nils Langhammer; Ruediger Kays (Dortmund University of Technology, Germany)

1569544687: A Novel Adaptive Bit Loading Algorithm for BICM-OFDM System

Hao Wang (Fujitsu R&D Center Co., Ltd., P.R. China); Hongwen Yang (Beijing University of Posts and Telecommunications, P.R. China); Jun Tian (Fujitsu R&D Center Co., Ltd., P.R. China)

1569545987: Two-Dimensional Markov Model for Throughput Analysis of IEEE 802.11 Distributed Coordination Function in Non Ideal Channel with Capture Effects, Nesreen Alsbou (Oklahoma University, USA); Xianbo Chen (Broadcom Corporation, USA); Hazem Refai (Oklahoma University, USA)

1569552249: The Search Space Design for Enhanced Downlink Control Channel in LTE-Advanced System, Y. Wang; H. Zhou (Fujitsu R&D center, P.R. China); J. Wu (Fujitsu Laboratories Limited, Japan)

1569555037: Power Smart In-door Optical Wireless Link Applications, Nabeel Riza; Philip J Marraccini (University College Cork, Ireland)

1569557659: MIMODog: How to solve the problem of Selfish Misbehavior Detection Mechanism in MANETs Using MIMO Technology? Abderrezak Rachedi (University Paris-Est Marne-la-Vallee, France); Hakim Badis (Institut Gaspard-Monge, France)

TA-11: Room: TEFKROS

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

Session Chair: Alvaro Araujo Pinto, Universidad Politecnica de Madrid, Spain

1569555639: A fair and energy-efficient spectrum management mechanism for cognitive radio networks, S. Quadri; Z. Fan; Stephen Lingfeng Wang (Toshiba Research Europe Limited, UK).

1569556341: Novel cognitive mobile router and its efficient use in a heterogeneous wireless network, Kosuke Yamazaki; Takashi Fujimoto; Yuichi Imagaki; Kanshiro Kashiki; Akira Yamaguchi (KDDI R&D Laboratories Inc., Japan).

1569557489: Practical Implementation of a Holding Time based Model for Cognitive Radio Access within a Common Pilot Channel Framework, Soumaya Dahi (Ecole Superieure des Communication de Tunis, Tunisia); Sami Tabbane (Sup Telecom, Tunisia).

1569557495: Analysis of Spectrum Sensing Characteristics for Cognitive Radio GFDM Signal, Rohit Datta (TU Dresden, Germany); Kamran Arshad (University of Greenwich, United Kingdom); Gerhard Fettweis (TU Dresden, Germany).

1569557787: Spectrum Availability Model of Secondary Users in Cognitive Radio Networks, Nariman Rahimian; Costas N Georgiades (Texas A&M University, USA); Hasari Celebi (Gebze Institute of Technology, Turkey); Khalid A. Qaraqe (Texas A&M University at Qatar, Qatar).

1569567797: Time Slotted Based Cognitive MAC Protocols for Multi-Channel Wireless ad hoc Networks, Abdullah Masrub; Hamed Al-Raweshidy (Brunel University, United Kingdom).

TA-12: Room: ONISILLOS

Session Title: Performance Evaluation (General Symposium)

Session Chair: Mehrdad Dianati, University of Surrey, UK

1569543645: Performance Analysis of Primary User Emulation Attack in Cognitive Radio Networks, C. Zhang (South China Univ. of Technology, P.R. China); R. Yu (Guangdong Univ. of Technology, P.R. China); Y. Zhang (Simula Research Laboratory and Univ. of Oslo, Norway)

1569543753: Performance Evaluation of an Adaptive Route Change Application Using an Integrated Cooperative ITS Simulation Platform, Charalambos Zinoviou; Konstantinos Katsaros (University of Surrey, United Kingdom); Ralf Kernchen (Rulemotion Ltd, United Kingdom); Mehrdad Dianati (University of Surrey, United Kingdom)

1569557817: Performance Evaluation of Low Density Spreading Multiple Access, Mohammed AL-Imari; Muhammad Ali Imran; Rahim Tafazolli (University of Surrey, United Kingdom); Dageng Chen (Huawei Technologies Co., Ltd, P.R. China)

1569557763: Fairness Evaluation in Cooperative Hybrid Cellular Systems, Juan F. Awad; Muhammad Ali Imran; Rahim Tafazolli (University of Surrey, United Kingdom)

1569545227: Throughput Analysis Using Eigenvalue Based Spectrum Sensing Under Noise Uncertainty, Ayse Kortun; Tharm Ratnarajah; Mathini Sellathurai (Queens University of Belfast, United Kingdom) Ying-Chang Liang ; Yonghong Zeng (Institute for Infocomm Research, Singapore)

NIGHT OUT (on your own, Organized by “SamrtEvents”)—Register at the Conference Website OR onsite

Technical Program of IEEE IWCMC 2012
Limassol, Cyprus, August 27—31, 2012
Wednesday, August 29, 2012

Registration: (8:00-15:00)

Room: Open Hall

KEYNOTE 2 (9:00-10:00)

Room: HALL-A

Speaker: Raouf Boutaba, University of Waterloo, Canada

Title: Wireless Mesh Networks: Research vs. Reality

Chair: Michele Zorzi, University of Padova, Italy

COFFE BREAK (10:00 – 10:30)

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

WM-1: Room: HALL-A

Session Title: INVITED PAPERS

Session Chair: Michele Zorzi, University of Padova, Italy

1569598919: Correlated Energy Generation and Imperfect State-of-Charge Knowledge in Energy Harvesting Devices, Nicolo Michelusi; Leonardo Badia; Ruggero Carli (University of Padova, Italy); Kostas Stamatiou (Univ. of Notre Dame, USA); Michele Zorzi (University of Padova, Italy)

1569599463: Recursive QR Packet Combining for Uplink Single-Carrier Multi-User MIMO HARQ Using Near ML Detection, Tetsuya Yamamoto (Tohoku University, Japan); Koichi Adachi; Sumei Sun (Institute for Infocomm Research, Singapore); Fumiyuki Adachi (Tohoku University, Japan)

1569589003: On the Multicast Throughput for Half-duplex Butterfly Network Using Deterministic Approach, Zhengchuan Chen; Pingyi Fan (Tsinghua University, P.R. China)

1569556707: Cross-Layer Design for Cognitive Radios with Joint AMC and ARQ Under Delay QoS Constraint, Leila Musavian; Tho Le-Ngoc (McGill University, Canada)

1569556837: Capacity Limits in a Variable Duty Cycle IEEE 802.11p-Based VANET, Serkan Ozturk (Erciyes University, Turkey); Jelena Misić; Vojislav B. Misić (Ryerson University, Canada)

1569557497: On the Complexity of Routing in Wireless Multihop Network, S. Waharte (University of Bedfordshire, UK); Raouf Boutaba (University of Waterloo, Canada); A. Golynski (Google Inc., USA)

LUNCH BREAK (12:00 – 13:30)

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

WA-1: Room: HALL-A

Session Title: High Speed Traffic Analysis (TRAC Workshop)

Session Chair: Christian Callegari, University of Pisa, Pisa, Italy

1569556505: Reducing Memory in High-Speed Packet Classification, Viktor Pus; Jan Korenek (Brno University of Technology, Czech Republic)

1569568437: Hardware Acceleration of SVM-Based Traffic Classification on FPGA, Tristan Groleat; Matthieu Arzel; Sandrine Vatou (Telecom Bretagne, France)

1569556721: MTCLASS: enabling Statistical Traffic Classification of Multi-Gigabit Aggregates on Inexpensive Hardware, F. Gringoli; L. Nava; A. Este; L. Salgarelli (University of Brescia, Italy)

1569545245: From ideality to practicability in statistical packet features masking, Alfonso Iacovazzi; Andrea Baiocchi (University of Roma Sapienza, Italy)

1569556563: Hierarchical Learning for Fine Grained Internet Traffic Classification, Luigi Grimaudo; Marco Mellia; Elena Baralis (Politecnico di Torino, Italy)

WA-2: Room: HALL-B

Session Title: Wireless Multi-Hop Networks (Wireless Networking Symposium)

Session Chair: Marc St-Hilaire, Carleton University, Canada

1569557399: Tracking Topology Dynamicity for Link Prediction in Intermittently Connected Wireless Networks, M-H. Zayani; V. Gauthier; I. Slama; D. Zeghlache (Institut Telecom, Telecom SudParis, France)

1569557441: A Medium Access Delay MAC aware Metric for Multihop Wireless Networks, Le Minh Duong (Univ. Paris Sud 11, France); L. Zitoune (ESIEE-Paris, France); V. Veque (Univ. of Paris-Sud 11, France)

1569557769: Evaluating the Impact of Energy Consumption on Routing Performance in Delay Tolerant Networks, Annalisa Socievole; Salvatore Marano (University of Calabria, Italy)

1569563743: On Monitoring Overhead Impact in Wireless Mesh Networks, Adriana Hava (UCD, Ireland); Yacine Ghamri-Doudane (ENSIE & Université Paris-Est (LIGM Lab), France); John Murphy (UCD, IE)

1569557721: Accumulative Interferences Removal in Multi-hop Linear and Circular Ad Hoc WLANs
Essaid Sabir; Rachid El-Azouzi (University of Avignon, France)

WA-3: Room: HALL-C

Session Title: WSN and Other Networks (Wireless Sensor Networks Symposium)

Session Chair: Abdullah Kadri (QU Wireless Innovations Center, Qatar)

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

1569545321: Design and Performance Analysis of Bandwidth and QoS Aware LTE Uplink Scheduler in Heterogeneous Traffic Environment, Safdar Nawaz Khan Marwat; Thushara Weerawardane; Yasir Zaki (University of Bremen, Germany); Andreas Timm-Giel (Hamburg University of Technology, Germany); Carmelita Garg (University of Bremen, Germany)

1569554879: Connectivity Based Transmit Power Control in VANET, Jun Tian (Fujitsu R&D Center Co., Ltd., P.R. China); Chao Lv (Chinese Academy of Sciences, P.R. China)

1569557541: A Closed-Form Rate Outage Probability Description Based on Nakagami-m Channel Model, Najah A. Abu Ali; Mohammad Hayajneh (UAE University, UAE)

1569557749: Efficient and Anonymous RFID Tag Counting and Estimation using Modulation Silencing, A. Alma'aitah; Hossam S. Hassanein; Mohamed Ibnkahla (Queen's University, Canada)

1569557799: A Two-Tier Integrated RFID/Sensor Network with a WiFi WLAN, Haleh Khojasteh; Jelena Mistic; Vojislav B. Mistic (Ryerson University, Canada)

1569557513: Performance of IEEE 802.15.4-Based Wireless Sensors in Harsh Environments, Abdullah Kadri (QU Wireless Innovations Center, Qatar)

WA-4: Room: EVAGORAS

Session Title: Coverage and Security (Wireless Sensor Networks Symposium)

Session Chair: Zaher Merhi (Lebanese International University, Lebanon)

Session Co-chair: Nidal Nasser (Alfaisal University, KSA)

1569552213: Practical RF Fingerprints for Wireless Sensor Network Authentication, David Knox; Thomas Kunz (Carleton University, Canada)

1569553825: NMSN: A Network Monitoring and Packet Sniffing Tool for Wireless Sensor Networks, Zhonghua Zhao; Wei Huangfu; Limin Sun (Chinese academy of sciences, P.R. China)

1569557803: Secure Localization for Wireless Sensor Networks Using Decentralized Dynamic Key Generation, Zaher Merhi (Lebanese International University, Lebanon)

1569554903: System-Level Evaluation of Sensor Networks Deployment Strategies: Coverage, Lifetime and Cost, Huimin She; Zhonghai Lu (Royal Institute of Technology (KTH), Sweden)

WA-5: Room: TEFKROS

Session Title: Access and Data Transmission (General Symposium)

Session Chair: Muhammad Imran University of Surrey, UK

1569556561: Medium Access Control via Contention-Based Distributed Power Control, T. Charalambous (Royal Inst. of Technology (KTH), Sweden); I. Krikidis (Univ. of Cyprus, Cyprus)

1569557653: Hybrid Transmission Schemes for Grouped Users in Cellular Systems, Juan F. Awad; Muhammad Ali Imran; Rahim Tafazolli (University of Surrey, United Kingdom)

1569555861: Flexible and Dynamic Network Coding for Adaptive Data Transmission in DTNs, Milena Radenkovic; Sameh Rasmy Anwar Zakhary (University of Nottingham, United Kingdom)

1569556471: Novel DR-tree Index Based on the Diagonal Line of MBR, J. Tang (Henan Polytechnic Univ., P.R. China); Z. Zhou (Institute Telecom, France); Q. Wang (CUGB, P.R. China)

1569556773: A Novel Handover Algorithm Design in WiMAX Networks, Mehrdad Dianati (University of Surrey, United Kingdom); Sami Muhaidat; Omar H Altrad (Simon Fraser University, Canada)

WA-6: Room: ONISILLOS

Session Title: Transceiver Design-I (Communication and Information Theory Symp.)

Session Chair: Jaafar Elmirghani (University of Leeds, United Kingdom)

Session Co-chair: Ali Almutairi, Kuwait University, Kuwait

1569560065: Narrowband Interference Suppression in DS-UWB Communication Systems Using Digital Delay Filter, Ehab M. Shaheen (Military Technical College, Egypt)

1569557719: Antenna Beam Pattern Modulation for MIMO Channels, R. Ramirez-Gutierrez; Li Zhang; J. Elmirghani (University of Leeds, United Kingdom); A. Almutairi (Kuwait Univ., Kuwait)

1569557295: A Novel Synchronization Method for DS-CDMA Systems, Yi Wan; Zhongping Chen (Lanzhou University, P.R. China)

1569556973: A Novel Space-Time Shift Keying and Its Reduced Complexity Detector, Han-Wen Liang (Academia Sinica, Taiwan); Chiao-En Chen (National Chung-Cheng university, Taiwan); Wei-Ho Chung (Academia Sinica, Taiwan)

1569557625: New Blind Synchronization Algorithm for DS-UWB systems, Karima Ben Hamida El Abri; Ammar Bouallegue (National School of Engineers of Tunis, Tunisia)

COFFEE BREAK (15:30-16:00)

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

WA-7: Room: HALL-A

Session Title: Overlay Networks Analysis (TRAC Workshop)

Session Chair: Sandrine Vaton, Telecom Bretagne, France

1569556777: Four Months in DailyMotion: Dissecting User Video Requests, Y. Carlinet (France Telecom, France); T. D. Huynh (Alcatel-Lucent, France); B. Kauffmann (Orange Labs, France); F. Mathieu (INRIA, France); L. Noirie (Alcatel-Lucent France, France); S. Tixeuil (University Pierre & Marie Curie, France)

1569557227: Internet Traffic Clustering with Constraints, Yu Wang; Yang Xiang; Jun Zhang (Deakin University, Australia); Yu Shunzheng (Sun Yat-Sen University, P.R. China)

1569569177: Classification of Content and Users in BitTorrent by Semi-supervised Learning Methods, Konstantin Avrachenkov; Paulo Gonçalves; Arnaud Legout; Marina Sokol (INRIA, France)

1569544385: SIP Trace Recorder: Monitor and Analysis Tool for threats in SIP-based networks, Dirk Hoffstadt; Stefan Monhof; Erwin P. Rathgeb (Universität Duisburg-Essen, Germany)

1569557667: Identifying Skype Nodes by NetFlow Based Graph Analysis, Jan Jusko, Martin Rehak (Czech Technical University in Prague)

WA-8: Room: HALL-B

Session Title: Power Control (Wireless Networking Symposium)

Session Chair: Themistoklis Charalambous, Royal Institute of Technology (KTH), Sweden

1569556019: Joint Design on Energy Efficiency and Throughput for Non-Infrastructure based Cognitive Radio Networks, Po-Kai Tseng (Academia Sinica, Taiwan); Huan Chen (National Chung-Hsing University, Taiwan); Wei-Ho Chung (Academia Sinica, Taiwan)

1569556519: Dynamic Power Control for Balanced Data Traffic with Coverage in Femtocell Networks
Donghoon Shin (KAIST, Korea); Sunghee Choi (KAIST, Korea)

1569557243: A Paradigm for the Development of Self-Growing Energy-Aware Networks
Ioannis Chochliouros; Anastasia Spiliopoulou (Lawyer, Hellenic Telecommunications Organization SA (OTE), Greece); Nancy Alonistioti; Gerasimos Stamatelatos (University of Athens, Greece); Periklis Chatzimisios (Alexander TEI of Thessaloniki, Greece)

1569555815: TeamSense: Energy-Efficient Autonomous Mobile Wireless Sensor Networks for Object Tracking, Ala Alnawaiseh; Khaled Abdelghany (Southern Methodist University, USA)

1569557741: Communication Requirements and Analysis of Distribution Networks Using WiMAX Technology for Smart Grids, P. Rengaraju; C-H. Lung; A. Srinivasan (Carleton University, Canada)

1569559509: A Novel Packet Scheduling for High Speed Bursty Traffic in LTE based-3G Concepts
Saied M. Abd El-atty (Menoufia University, Egypt); Konstantinos Lizos (Embassy of Greece, Norway)

WA-9: Room: HALL-C

Session Title: Protocols and Attacks (Security Symposium)

Session Chair: Hyoung-Kee Choi (Sungkyunkwan University, Korea)

Session Co-chair: Sattar B. Sadkhan (University of Babylon, Iraq)

1569544803: A Study on Reservation-Based Adaptation for QoS in Adversarial MANET Environments; Peter McNerney, Ning Zhang (University of Manchester, United Kingdom).

1569556237: A Versatile Suite of Strong Authenticated Key Agreement Protocols for Body Area Networks; Jin-Meng Ho (Texas Instruments, USA).

1569556467: A Secure Dynamic Data Aggregation System for Citizen Safety in Emergency Response Scenarios; M. Hadjioannou (Univ. of Cyprus, Cyprus), G. Hadjichristofi (Frederick University, Cyprus).

1569557707: Log-based Intrusion Detection for MANET; M. Alattar (University of Franche-Comte & LIFC, France), F. Sailhan (CANM, France), Julien Bourgeois (University of Franche-Comte, France).

1569569189: A Swarm-based Robot Team Coordination Protocol for Mine Detection and Unknown Space Discovery; F. De Rango (University of Calabria, Italy), N. Palmieri (University of Calabria, Italy).

1569557023: IP Based Security Architecture of Virtual Network in Cloud Computing System; Jongsung Yang, Hyoung-Kee Choi (Sungkyunkwan University, Korea).

WA-10: Room: EVAGORAS

Session Title: Network Protocols (Wireless Networking Symposium)

Session Chair: Ilker Demirkol, Universitat Politècnica de Catalunya, Spain

1569552211: Using Aggregated RSVP in Nested HMIPv6, Esmat Mirzamany (Middlesex University, United Kingdom)

1569555493: A Comparative Analysis of Predictive and Reactive Mode of Optimized PMIPv6, A. Rasem; M. St-Hilaire (Carleton University, Canada); C. Makaya (Telcordia Technologies, USA)

1569556857: Impact of transmission range in 802.15.4 with usual routing protocols, C. Ramassamy (Univ. des Antilles et de la Guyane, France); H. Fouchal (Univ. de Reims Champagne-Ardenne, France); P. Hunel (University of Antilles Guyane, France)

1569556865: Modified R-ALOHA: Broadcast MAC Protocol for Vehicular Ad hoc Networks
Sina Asadollahi; Hazem Refai (Oklahoma University, USA)

1569532491: Routing Across Wired and Wireless Mesh Networks: Experimental Compound Internetworking with OSPF, J. A. Cordero; Matthias Philipp; Emmanuel Baccelli (INRIA, France)

1569557825: Flow scheduling at multihomed devices during vertical handover in NGN
Daniel Négru; Julien Arnaud (University of Bordeaux, France)

WA-11: Room: TEFKROS

Session Title: Web Services and M2M

Session Chair: Derjiunn Deng, National Changhua University of Education, Taiwan

1569571737: Towards a Best-Effort Framework for Developing Smart Mobile Applications, R. Mizouni (Khalifa Univ, UAE); A. Benharref (Abu Dhabi Univ.); M. Adel Serhani (UAE Univ, UAE)

1569544725: A Bandwidth-Aware Algorithm for Dynamic Service Placement in Size-Fixed Networks, J. Xu; Y. Chen; X. Chen; P. Yu; T. Wang (Beijing Univ. of Posts and Teleco., P.R. China)

1569539679: Topic Discovery for Publish/Subscribe Web Services, Frank T. Johnsen; Trude H Bloebaum (Norwegian Defence Research Establishment (FFI), Norway)

1569556603: Optimal Resource Reservations to Provide Quality-of-Service Guarantee in M2M Communications, P-H.

Lee; M-J. Shih; G-Y. Lin; Hung-Yu Wei (National Taiwan Univ., Taiwan)

1569557179: Enabling Dense Machine-to-Machine Communications through Interference-Controlled Clustering, Hung-Yun Hsieh (National Taiwan University, Taiwan)

1569557371: An Enhanced Port Forwarding (EPF) Solution for NAT Traversal in 3GPP Machine Type Communications, W-E. Chen; C-C. Chiu; Y-B. Chang; Ying-Wei Chiang (National Ilan University, Taiwan)

WA-12: Room: ONISILLOS

Session Title: Multimedia over Wireless (Multimedia over Wireless Symposium)

Session Chair: Tasos Dagiuklas, Technological Educational Institute of Mesolonghi, Greece

1569545379: Layered Data Transmission Based on Training Sequences in TDS-OFDM System, C. Wenting; J. Wang; C. Pan (Tsinghua University, Beijing, P.R. China)

1569556025: Watermarking Scalability for Copyright Protection in Wireless and Mobile Environments, J. Hämmerle-Uhl; K. Raab; A. Uhl (Salzburg University, Austria)

1569556573: Light-Weight Feedback Based SVC Multicast in Multi-carrier Wireless Data Systems, Z. Hao (University of Science and Technology of China, P.R. China); Y. Gu (National Institute of Informatics, Japan); Y. Ji (National Institute of Informatics, Japan); B. Zhao (, P.R. China)

1569557037: Alamouti Based Cooperative Wireless Networks for Multiplexing-Diversity Balanced Multimedia Transmission, K. Hua (Lawrence Technological University, USA); H. Wang (University of Massachusetts, Dartmouth, USA); W. Wang (South Dakota State University, USA)

DINNER BANQUET (19:00-21:00)

Technical Program of IEEE IWCMC 2012
Limassol, Cyprus, August 27—31, 2012
Thursday, August 30, 2012

Registration: (8:00-15:00)

Room: Open Hall

KEYNOTE 3 (9:00-10:00)

Room: HALL-A

Speaker: Hossam Hassanein, Queen's University, Canada

Title: Towards Global IoT – Resource Reutilization

Chair: Raouf Boutaba, University of Waterloo, Canada

COFFE BREAK (10:00 – 10:30)

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

ThM-1: Room: HALL-A

Session Title: INVITED PAPERS

Session Chair: Raouf Boutaba, University of Waterloo, Canada

1569544027: Cooperative Relay-Based Multicasting for Energy and Delay Minimization, Rachad Atat (King Abdullah University of Science and Technology (KAUST), Saudi Arabia); Elias Yaacoub (Qatar University Wireless Innovations Center (QUWIC), Qatar); Mohamed-Slim Alouini (KAUST, Saudi Arabia); Adnan Abu-Dayya (QUWIC, Qatar)

1569557461: Coexistence Studies of LTE-A with Carrier Aggregation at 3.5GHz

Yu-Ting Lin; Kwang-Cheng Chen (National Taiwan University, Taiwan)

1569555057: Combined Reactive-Geographic Routing for Unmanned Aeronautical Ad-hoc Networks

Rostam Shirani; Marc St-Hilaire; Thomas Kunz (Carleton University, Canada); Yifeng Zhou; Jun Li; Louise Lamont (Communications Research Centre Canada, Canada)

1569556175: Optimized Frequency allocation for Interference Mitigation in Femtocellular Networks, Mahmoud Ouda (Queen's Univ, Canada); Najah A. Abu Ali (UAEU, UAE); Hossam S. Hassanein (Queen's University, Canada); Osama Kubbar (QU Wireless Innovation Centre, Qatar)

1569601615: On-demand Scheduling for Concurrent Multipath Transfer under Delay-based Disparity, T. Daniel Wallace; Abdallah Shami (University of Western Ontario, Canada)

LUNCH BREAK (12:00 – 13:30)

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

ThA-1: Room: HALL-A

Session Title: Design and Routing Protocols (Wireless Sensor Networks Symposium)

Session Chair: Najah A. Abu Ali (UAE University, UAE)

Session Co-chair: Tomohiko Taniguchi (Fujitsu Laboratories Limited, Japan)

1569545385: A New Ultra-Low Energy Consumption Communication Protocol for Wireless Sensor Networks, Tao Ma; Michael Hempel; Hamid Sharif (University of Nebraska-Lincoln, USA)

1569556249: Cross-layer Protocols for WSNs: A Simple Design and Simulation Paradigm, M. Hefeida; Min Shen; Ajay Kshemkalyani; Ashfaq Khokhar (University of Illinois at Chicago, USA)

1569556577: FLOGERA - A Fuzzy LOGic Event Recognition Algorithm in a WSN Environment, S-M. Dima; D. Tsitsipis; C. Antonopoulos; J. Gialelis; S. Koubias (University of Patras, Greece)

1569557891: Contention Resolution Algorithm for MAC Protocol in Wireless Ad-hoc Networks, H. Chin; D. Deng (National Changhua University of Education, Taiwan)

1569574253: Channel Models of Zigbee Sensor Networks, Najah A. Abu Ali (UAEU, UAE)

ThA-2: Room: HALL-B

Session Title: Resource Allocation and Management II (Wireless Networking Symposium)

Session Chair: Hossam Hassanein, Queen's University, Canada

1569557781: Adaptive Admission Control and Packet Scheduling Schemes for QoS Provisioning in Multihop WiMAX Networks, Perumalraja Rengaraju; Chung-Horng Lung; Anand Srinivasan (Carleton University, Canada)
1569559549: Channel Allocation Strategies in Opportunistic-based Cognitive Networks
Yassin Belkasm, Abdellatif Kobbane, Mohammed Elkoutbi and Jalel Ben-Othman
1569568645: Mobility Prediction and Resource Reservation in Cellular Networks with Distributed Markov Chains, Peppino Fazio; Salvatore Marano (University of Calabria, Italy)
1569557549: A Two-Way Communication Scheme for Vehicles Charging Control in the Smart Grid, Jihene Rezgui; Soumaya Cherkaoui; Dhaou Said (University of Sherbrooke, Canada)
1569554831: Markov Decision Process Based Content Dissemination in Hybrid Wireless Networks, F. Wang; Y. Li; Z. Wang; Y. Zhixing (Tsinghua University, P.R. China)
1569556517: Virtual Currency and Reputation-Based Cooperation Incentives in User-Centric Networks, Alessandro Bogliolo; Paolo Polidori; Alessandro Aldini (University of Urbino, Italy); Waldir Moreira (Research Unit in Informatics Systems and Technologies, Portugal); Paulo Mendes (SITI, University Lusofona, Portugal); Mursel Yildiz (TU Berlin, Germany); Carlos Ballester; Jean-Marc Seigneur (University of Geneva, Switzerland)

ThA-3: Room: HALL-C
Session Title: Capacity (Communication and Information Theory Symp.)
Session Chair: Prasant Mohapatra, University of California, Davis, USA

1569544573: Optimum Ergodic Beamforming Capacity in Urban Microcellular Operational Environments, Dimitris Kontaxis (University of Athens, Greece); George Tsoulos (University of Pelloponese, Greece); Serafim Karaboyas (University of Athens, Greece)
1569544919: The Asymptotic Capacity of Opportunistic Scheduling over Shadowed Nakagami Fading Channels, Saad Al-Ahmadi (King Fahd University of Petroleum & Minerals, Saudi Arabia)
1569563125: Channel Capacity of the Generalized Alpha-Mu Multipath Fading Model Under Different Adaptive Transmission Protocols, Amer M Magableh (Jordan University of Science and Technology, Jordan); Mustafa Muhammad Matalgah (University of Mississippi, USA)
1569560067: Non-Gaussian MAI Modeling to the Performance of TH-BPSK/PPM UWB Communication Systems, Ehab M. Shaheen (Military Technical College, Egypt)
1569555537: Rate-compatible QC-LDPC codes design based on EXIT chart analysis, Zaishuang Liu; Kewu Peng; Weilong Lei; Chen Qian; Zhaocheng Wang (Tsinghua University, P.R. China)

ThA-4: Room: EVAGORAS
Session Title: Performance Analysis & Optimization (Wireless Networking Symposium)
Session Chair: Vojislav Misic, Ryerson University, Canada

1569544923: On the Performance of Distributed Base Stations in LTE Public Safety Networks
Elias Yaacoub; Osama Kubbar (QU Wireless Innovation Centre, Qatar)
1569556661: QoS Performance Evaluation of Multimedia Services in Emergency Networks
Alessandro Paganelli; Daniela Saladino; Maurizio Casoni (University of Modena and Reggio Emilia, Italy)
1569557739: A Comprehensive Performance Analysis of LTE and Mobile WiMAX
Fahimeh Rezaei; Michael Hempel; Hamid Sharif (University of Nebraska-Lincoln, USA)
1569553047: Automated Coverage Optimization Scheme Based On Downtilt-Adjustment in Wireless Access Networks,
Youlin Jiang (Beijing University of Posts and Telecommunications, P.R. China)
1569569249: Optimal Number of Users in Wireless Networks: A Flat Rate Pricing, M. Raiss-el-fenni; R. El-Azouzi (LIA/CERI University of Avignon, France); Andrey Garnaev (St.-Petersburg State U, Russia)
1569556607: NetBoxIT: an Open Testbed for Heterogeneous Networks Study
Giorgio Calarco; Maurizio Casoni (University of Modena and Reggio Emilia, Italy)

ThA-5: Room: TEFKROS

Session Title: Wireless Communication Networks: Design and Performance Analysis (Vehicular Symp.)

Session Chair: Georg Maier, Vienna University of Technology, Austria

1569540261: Performance Analysis for VoIP Traffic with Limited Retransmissions in IEEE 802.11-Based Wireless Networks, Yongmei Zhao (The Chinese People's Armed Police Academy, P.R. China)

1569544527: Statistical Characterization of Uplink Interference in Two-Tier Co-Channel Femtocell Networks, Nessrine Chakchouk; Bechir Hamdaoui (Oregon State University, USA)

1569551505: Randomized Resource Allocation for Wireless Networks with Cooperative Relay, Di Wu; Gang Zhu; Lina Liu (Beijing Jiaotong University, P.R. China)

1569552377: Analysis of LTE and DC-HSDPA Performance with Variable Number of Users per TTI in Macro Cellular Network, M. U. Sheikh; Jukka Lempinen (Tampere University of Technology, Finland)

1569557085: A Reduced Dimension MDP-based Call Admission Control Scheme for Next Generation Telecommunications, Huan Chen (National Chung-Hsing University, Taiwan); Chih-Chuan Cheng; Wei-Ho Chung (Academia Sinica, Taiwan); Hsi-Hsun Yeh (National Chung Cheng University, Taiwan)

1569557299: Hybrid Digital Modulation Classification, Yuanxuan Li; Fanggang Wang; Gang Zhu (Beijing Jiaotong University, P.R. China)

1569557791: Deadline Constrained Content Distribution in Vehicular Delay Tolerant Networks, Deze Zeng (The University of Aizu, Japan); Lei Cong; Huawei Huang (China University of Geoscience (Wu Han), P.R. China); Song Guo (The University of Aizu, Japan); Hong Yao (China University of Geosciences, P.R. China)

ThA-6: Room: ONISILLOS

Session Title: Multimedia over Wireless (Multimedia over Wireless Symposium)

Session Chair: Derjiunn Deng, National Changhua University of Education, Taiwan

Session Co-Chair: Tasos Dagiuklas, Technological Educational Institute of Mesolonghi, Greece

1569555835: Cross-layer Energy Optimization Under Image Quality Constraints for Wireless Image Transmissions, N. Yang (University of Rochester, USA); I. Demirkol (Universitat Politecnica de Catalunya, Spain); W. Heinzelman (University of Rochester, USA)

1569553927: Fair Cross-layer Scheme for Heterogeneous H.264/AVC Video Streams over LTE-based Broadband Systems, S. Karachontzitis (University of Patras, Greece); T. Dagiuklas; L. Dounis (Technological Educational Institute of Messolonghi, Greece)

1569557457: QoE-based Cross-Layer Resource Allocation for Video Streaming in High Speed Downlink Access, A. Qing (University of Tongji, P.R. China); Y. Ji (National Institute of Informatics, Japan); L. Zhong (National Institute of Information and Communications Technology, Japan); P. Wang; F. Liu (Tongji University, P.R. China)

1569557677: Video traffic prediction for improved Scheduling in Joint WiMAX / Satellite Networks, A. Lygizou; S. Xergias; N. Passas (University of Athens, Greece)

COFFEE BREAK (15:30-16:00)

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

ThA-7: Room: HALL-A

Session Title: Physical and Application Level Security (Security Symposium)

Session Chair: Samia Jones (Texas A&M University at Qatar, Qatar)

Session Co-chair: Hyoung-Kee Choi (Sungkyunkwan University, Korea)

1569555237: Artificial Noise Scheme to Ensure Secure Communications in CWSN; A. Araujo, J. Blesa, E. Romero, O. Nieto-Taladriz (Technical University of Madrid, Spain).

1569557271: On Improving the Robustness of Physical-layer Key Extraction Mechanisms against Delay and Mobility; Y. El Hajj Shehadeh, O. Alfandi, D. Hogrefe (Univ. of Goettingen, Germany).

1569556583: How much Security for Switching a Light Bulb -The SOA Way; Sebastian Unger, Stefan Pfeiffer, Dirk Timmermann (University of Rostock, Germany).

1569544865: A Decentralized Location-Query-Sensitive Cloaking Algorithm for LBS; Wei Li, Chunlei Liu (Beihang University, Beijing, P.R. China).

1569550173: Graph-Based Learning Model for Detection of SMS Spam on Smart Phones; Muhammad Rafique, Muhammad Abulaish (King Saud University, Saudi Arabia).

1569557681: Proposed Relay Selection Scheme for Physical Layer Security in Cognitive Radio Networks; H. Sakran, O. Nasr, M. Shokair, E. S. El-Rabaie and A. Abou El-Azm (Ibb University, Yemen).

1569559999: An Audio/Video Crypto-Technique – Adaptive Optical Steganography Approach, S. Guizani and N. Nasser (Alfaisal University, KSA).

ThA-8: Room: HALL-B
Session Title: Mobile Ad-hoc Networks (Wireless Networking Symposium)
Session Chair: Ilker Demirkol, Universitat Politecnica de Catalunya, Spain

1569552453: Self-organization Framework for Mobile Ad Hoc Networks, Ali Kies (University of Sciences and the Technology of Oran, Algeria); Sara Mehar (University of Bourgogne - ISAT Nevers, France); Redouane Belbachir; Zoulikha Mekkaia Maaza (University of Sciences and Technology of Oran, Algeria); Sidi-Mohammed Senouci (University of Bourgogne - ISAT Nevers, France)

1569555717: Saturation Performance Analysis of IEEE 802.11 Broadcast in 2-D Mobile Ad Hoc Networks
Minming Ni; Zhangdui Zhong (Beijing Jiaotong University, P.R. China); Jianping Pan (University of Victoria, Canada); Dongmei Zhao (McMaster University, Canada)

1569556703: MUDDS: Multi-Metric Unicast Data Dissemination Scheme for 802.11p VANETs
Omar Chakroun; Soumaya Cherkaoui; Jihene Rezugui (Université de Sherbrooke, Canada)

1569557213: An User-Controllable Multi-Layer Secure Algorithm for MANET
Ruen Chze Loh; Wayne Kan; Siew Leong Kan (Nanyang Polytechnic, Singapore)

1569557629: Using SAT & ILP Techniques to Solve Enhanced ILP Formulations of the Clustering Problem in MANETS, Syed Zahidi; Fadi Aloul; Assim Sagahyoon (American University of Sharjah, UAE); Wassim El-Hajj (American University of Beirut, Lebanon)

ThA-9: Room: HALL-C
Session Title: Vehicular Communication Networks: Architectures and Protocols (Vehicular Symp.)
Session Chair: Jelena Mistic, Ryerson University, Canada

1569556705: Bandwidth Efficient Broadcasting in VANETs, Estrella Garcia-Lozano (University Carlos III of Madrid, Spain); Celeste Campo (University Carlos III of Madrid, Spain); Carlos Garcia-Rubio (University Carlos III of Madrid, Spain); Alberto Cortes-Martin (University Carlos III of Madrid, Spain)

1569556751: Free Space Optical Communication in the Visible Bandwidth for V2V Safety Critical Protocols, Raffaele Corsini; Riccardo Pelliccia; Giulio Cossu; Amir Khalid; Marco Ghibaudi (Scuola Scuola Superiore Sant'Anna, Italy); Matteo Petracca (Consorzio Nazionale Interuniversitario per le Telecomunicazioni, Italy); Paolo Pagano (Consorzio Nazionale Interuniversitario per le Telecomunicazioni, Italy); Ernesto Ciaramella (Scuola Superiore Sant'Anna University, Italy)

1569556945: Transmission Schemes for High-Speed Railway: Direct or Relay?, Jia You; Zhangdui Zhong; Rongtao Xu; Gongpu Wang (Beijing Jiaotong University, P.R. China)

1569557617: Location Assistant Beamforming for High Speed Railway, Chen Wang; Rongtao Xu; Zhangdui Zhong (Beijing Jiaotong University, P.R. China)

1569552059: Performance Evaluation of IEEE 802.11p Infrastructure-to-Vehicle Real-World Measurements with Receive Diversity, Georg Maier (Vienna University of Technology, Austria); Alexander Paier (Kapsch TrafficCom, Austria); Christoph Mecklenbrauker (Vienna University of Technology, Austria)

1569557621: A packing model to estimate VANET capacity, Anh Tuan Giang (University of Paris Sud XI, France); Anthony Busson (University of Paris 11, France); Alain Lambert (Universite Paris-Sud XI, France); Dominique Gruyer (LIVIC-IFSTTAR, France)

1569553441: Evaluation of a Multi-Antenna Switched Link-based Network Architecture for Quasi-stationary Vehicle Network, R. K. Guha; J. Chennikara-Varghese; W. Chen (Telcordia Technologies)

ThA-10: Room: EVAGORAS
Session Title: Wireless Sensor Networks (Wireless Networking Symposium)
Session Chair: Hazem Refai, Oklahoma University, USA

1569554645: Robust Routing for Target Tracking in Quantized Sensor Networks
Majdi Mansouri; Lyes Khokhi (University of Technology of Troyes, France)

1569556849: Analyzing and Modeling the Failure Behavior of Wireless Sensor Networks Software under Errors, Marcello Cinque; Catello Di Martino; Alessandro Testa (University of Naples Federico II, Italy)

1569557451: Design and Performance Evaluation of a Composite-based Back End System for WSNs
Wassim Drira, Eric Renault; Djamel Zeghlache (Telecom SudParis, France)

1569557771: Performance Comparison of CSMA/CA Advanced Infrared (AIr) and a New Point-to-Multipoint Optical MAC Protocol, S. Asadollahi; H. Refai (Oklahoma U., USA); P. LoPresti (Tulsa U., USA)

1569557615: A Unified Approach for Online and Offline Estimation of Sensor Platform Energy Consumption, M. Buschhoff; O. Spinczyk; C. Gunter (Technical Univ. of Dortmund, Germany)

1569589853: EM-MAC: An Energy-Aware Multi-Channel MAC Protocol for Multi-Hop Wireless Networks, A. Sivanantha; B. Hamdaoui (Oregon State University, USA); M. Guizani (QU, USA); X. Cheng (George Washington Univ, USA); T. Znati (University of Pittsburgh, USA)

ThA-11: Room: TEFKROS
Session Title: Transceiver Design-II (Communication and Information Theory Symp.)
Session Chair: Thomas Kunz, Carleton University, Canada

1569544779: Modal Theory for Interpreting Path Loss and MIMO Capacity in a Tunnel Excited by an Outside Antenna, Jose-Maria Molina-Garcia-Pardo (Universidad Politecnica de Cartagena, Spain); Martine Liénard; Pierre Degauque (University of Lille, France)

1569552169: Impact of Propagation/System Parameters on Cellular Wireless Network Operating at Frequencies Greater Than 2 GHz, Kwashie A Anang; Predrag Rapajic; Ruiheng Wu; Lawal Bello; Titus Ikechukwu Eneh (University of Greenwich, United Kingdom)

1569554217: An EXIT-Chart Aided Optimization of Bit Mapping for DVB-C2 System, Keqian Yan; Kewu Peng; Fang Yang; Tao Cheng; Jian Song (Tsinghua University, P.R. China)

1569556093: Non-Coherent Detection of Weak M-ary Chirp Signals in Non-Gaussian Impulsive Noise, Abdullah Kadri (QU Wireless Innovations Center, Qatar)

1569556263: Detection of Space Shift Keying Signaling in Large MIMO Systems, Ronald Y. Chang; Wei-Ho Chung; Sian-Jheng Lin (Academia Sinica, Taiwan)

1569567301: VAE VICTIS and Democratic Admission Control Strategies for OFDMA Networks, Abbes Yosra; Hichem Besbes (Ecole Supérieure de Communications de Tunis, Sup'Com, University of Carthage, TUNISIA, Tunisia)

ThA-12: Room: ONISILLOS
Session Title: Traffic and Distribution (General Symposium)
Session Chair: Mehrdad Dianati, University of Surrey, UK
Session Co-chair: Sghiaer Guizani, Alfaisal University, KSA

1569546511: Open Spectrum Communication Systems and Optimized Downlink Beamforming, Miguel Angel Vazquez; Ana Perez-Neira; Miguel Angel Lagunas (CTTC, Spain)

1569555649: Traffic Relaying in Multi-hop Wireless Networks, Alessandro Nordio (IEIT CNR - Italian National Research Council, Italy); Vahid Forutan (Politecnico di Torino, Italy); Carla-Fabiana Chiasserini (Politecnico di Torino, Italy)

1569556565: Towards Distributed Transmission Scheduling for Wireless Ad Hoc Networks, Angelos Vassiliou (University of Cyprus, Cyprus); Themistoklis Charalambous (Royal Institute of Technology (KTH), Sweden); Ioannis Krikidis (University of Cyprus, Cyprus); Evelina Klerides (Imperial College London, United Kingdom)

1569557485: Timing Synchronization for OFDMA Femtocells in the Presence of Co-Channel Interference, Jinlin Peng; Li Zhang; Desmond McLernon (University of Leeds, United Kingdom)

1569557777: New Exponential-Type Approximations for the $\operatorname{erfc}(\cdot)$ and $\operatorname{erfc}^2(\cdot)$ Functions with Applications, Annamalai Annamalai (Prairie View A&M University, USA)

1569543315: Throughput-constrained Scheduling in OFDMA Wireless Networks, Debalina Ghosh; Prasant Mohapatra (University of California, Davis, USA)

**Technical Program of IEEE IWCMC 2012
Limassol, Cyprus, August 27—31, 2012
Friday, August 31, 2012**

EXCURSIONS (on your own)—Organized by “Smart Events”

Please register for the excursion you prefer and pay the required fees. All necessary information: how to register, where to pay, etc. is available at the conference website, bottom of:

<http://iwcmc.org/2012/files/registration.html>