

IEEE IWCMC 2016
Technical Program at a Glance
Paphos, Cyprus, September 5th — 9th, 2016

DATE	TIME	ROOM							
Sept. 5, 2016 (Monday) TUTORIALS		ATHENA							
	9:00-12:00	T1: Wireless Communication Challenges in Surface Transportation Applications By: Prof. Hamid Sharif, University of Nebraska-Lincoln, USA							
	12:00-13:30	LUNCH BREAK							
	14:00-17:00	T2: Vehicular Communications: Challenges and Opportunities By: Prof. Soumaya Cherkaoui, Université de Sherbrooke, Canada & Prof. Lyes Khoukhi, University of Technology of Troyes, France							
	19:00-20:00	WELCOME RECEPTION							
Sept. 6, 2016 (Tuesday) SESSIONS		C. Barnard	Ambrosia	Aphrodite	Athena	Leda	Coralino	Adonis	
	8:30-9:00	WELCOME & OPENING							
	9:00-10:00	KEYNOTE 1: Prof. Ashfaq A. Khokhar, Illinois Institute of Technology, USA TITLE: Content-Aware Instantly Decodable Network Coding (IDNC) in D2D Networks							
	10:00-10:30	COFFEE BREAK							
	10:30-12:30	TM-1	TM-2	TM-3	TM-4	TM-5	TM-6	TM-7	
	12:30-13:30	LUNCH BREAK							
	13:30-15:30	TA-1	TA-2	TA-3	TA-4	TA-5	TM-6	TM-7	
	15:30-16:00	Coffee Break							
	16:00-18:00	TA-8	TA-9	TA-10	TA-11	TA-12	TA-13	TA-14	
19:00-22:00	NIGHT OUT (On your Own)								
Sept. 7, 2016 (Wednesday) SESSIONS	9:00-10:00	KEYNOTE 2: Prof. Sofiène Affes, University of Quebec, Montreal, Canada TITLE: Cost-, Spectrum-, and Energy-Efficient Distributed Collaborative Beamforming Designs for Real-World Applications							
	10:00-10:30	Coffee Break							
	10:30-12:30	WM-1	WM-2	WM-3	WM-4	WM-5	WA-6	WA-7	
	12:30-13:30	LUNCH BREAK							
	13:30-15:30	WA-1	WA-2	WA-3	WA-4	WA-5	WA-6	WA-7	
	15:30-16:00	Coffee Break							
	16:00-18:00	WA-8	WA-9	WA-10	WA-11	WA-12	WA-13	WA-14	
19:00-21:00	DINNER BANQUET								
Sept. 8, 2016 (Thursday) SESSIONS	9:00-10:00	KEYNOTE 3: Prof. Mario Gerla, University of California, Los Angeles (UCLA), USA TITLE: Internet of Vehicles							
	10:00-10:30	Coffee Break							
	10:30-12:30	ThM-1	ThM-2	ThM-3	ThM-4	ThM-5	ThM-6	ThM-7	
	12:30-13:30	LUNCH BREAK							
	13:30-15:30	ThA-1	ThA-2	ThA-3	ThA-4	ThA-5	ThM-6	ThM-7	
Sept. 9, 2016 (Friday)	EXCURSIONS (On your Own)—No Sessions								

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FREDERICK UNIVERSITY

TECHNICAL PROGRAM
IEEE IWCMC 2016
Paphos, Cyprus, September 5th — 9th, 2016

Monday, September 5th, 2016

Registration — (8:00 - 15:00)

Room: Open Hall

Tutorial 1 — (9:00 - 12:00)

Room: ATHENA

- **Speakers:** Prof. Hamid Sharif, University of Nebraska-Lincoln, USA
- **Title:** Wireless Communication Challenges in Surface Transportation Applications
- **Chair:** George Hadjichristofi, Frederick University, Cyprus

LUNCH BREAK

12:00 – 13:30

Tutorial 2 — (14:00 - 17:00)

Room: ATHENA

Speaker: Prof. Soumaya Cherkaoui, Université de Sherbrooke, Canada & Prof. Lyes Khoukhi,
University of Technology of Troyes, France

- **Title:** Vehicular Communications: Challenges and Opportunities
- **Chair:** Chrysostomos Chrysostomou, Frederick University, Cyprus

WELCOME RECEPTION

19:00 – 20:00

TECHNICAL PROGRAM
IEEE IWCMC 2016
Paphos, Cyprus, September 5th — 9th, 2016

Tuesday, September 6th, 2016

Registration — (8:00 - 15:00) **Room:** Open Hall

Opening Session — (8:30 - 9:00) **Room:** Christian Barnard

Speaker: George Hadjichristofi, Frederick University, Cyprus

KEYNOTE 1 — (9:00 - 10:00) **Room:** Christian Barnard

- **Speaker:** Prof. Ashfaq A. Khokhar, Illinois Institute of Technology, USA
- **Title:** Content-Aware Instantly Decodable Network Coding (IDNC) in D2D Networks
- **Chair:** Prof. Mario Gerla, University of California, Los Angeles (UCLA), USA

Coffee Break — (10:00 - 10:30)

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

➤ **Session Title:** INVITED PAPERS **TM-1: Room:** Christian Barnard
➤ **Session Chair:** Ashfaq A. Khokhar, Illinois Institute of Technology, USA

1570253858: GHOST: Concealing Vehicular Botnet Communication in the VANET Control Channel, Mevlut T Garip and Peter Reiher (UCLA, USA); Mario Gerla (University of California at Los Angeles, USA)

1570253818: A Security Framework for Content Retrieval in DTNs, Tuan Le, Mario Gerla (UCLA, USA)

1570253695: VM2M: An Overlay Network to Support Vehicular Traffic over LTE, Nargis Khan, Jelena Mišić and Vojislav B. Mišić (Ryerson University, Canada)

1570248205: Lifetime of a Linear IEEE 802.15.4 Sensor Field with Randomized Sleep and Bridge Rotation, Hamidreza Tavakoli (Hakim Sabzevari University, Iran); Jelena Mišić and Vojislav B. Mišić (Ryerson University, Canada)

1570260001: Optimal Anchors Placement Strategy for Super Accurate Nodes Localization in Anisotropic Wireless Sensor Networks, Ahmad El Assaf, Slim Zaidi (INRS-EMT, Université du Québec, Canada), Sofiene Affes, and Nahi Kandil (LRTCS, University of Quebec in Abitibi-Témiscaming, Rouyn-Noranda, Canada)

1570266321: A Geometry-Based Multiple Bounce Model for Visible Light Communication Channels, Ahmed Al-Kinani and Chengxiang Wang (Heriot-Watt University, United Kingdom); Harald Haas (The University of Edinburgh, United Kingdom); Yang Yang (Chinese Academy of Sciences, P.R. China)

LUNCH BREAK
12:00 – 13:30

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

- | | |
|---|-------------------------------|
| ➤ Session Title: Network Traffic Monitoring and Analysis (TRAC Workshop) | TA-1: Room: C. Barnard |
| ➤ Session Chair: Pedro Casas Pedro Casas (AIT, Austria) | |

Keynote: Towards 100 Gbit Flow-Based Network Monitoring, **Luca Deri** (NTOP and Registro.it, Italy)

1570259777: Towards Web Service Classification using Addresses and DNS, Martino Trevisan, Idilio Drago, Marco Mellia and Maurizio M. Munafó (Politecnico di Torino, Italy)

1570260054: Understanding the WiFi Usage of University Students, Alessandro E. C. Redondi, Matteo Cesana and Daniel Weibel (Politecnico di Milano, Italy); Emma Fitzgerald (Lund University, Sweden)

1570262744: Detecting User Actions from HTTP Traces: Toward an Automatic Approach, Luca Vassio, Idilio Drago and Marco Mellia (Politecnico di Torino, Italy)

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|---|-----------------------------|
| ➤ Session Title: LTE and Beyond (Wireless Networking Symp.) | TA-2: Room: Ambrosia |
| ➤ Session Chair: Wassim El-Hajj (American University of Beirut, Lebanon) | |

1570258989: The Uplink and Downlink Design of MIMO-SCMA System, Shuai Han, Cheng Guo, Weixiao Meng; Wenyan Tang (Harbin Institute of Technology, Harbin, P.R. China)

1570244812: How accurate is the RACH procedure model in LTE and LTE-A? Osama Arouk (University of Rennes 1 & IRISA / INRIA Rennes, France); Adlen Ksentini (Eurecom, France); Tarik Taleb (Aalto University, Finland)

1570250189: mmWave based vs 2 GHz networks: What is more energy efficient? Mohamad Omar Al Kalaa, Ali Imran; Hazem Refai (University of Oklahoma, USA)

1570253552: Modelling and Performance Analysis of 3-D MmWaves based Heterogeneous Networks, Soumaya Bachtobji (Higher School of Communications of Tunisia, Tunisia); Aymen Omri (Qatar University, Qatar); Ridha R. Bouallegue, B. (Ecole Supérieure des Communications de Tunis, Tunisia)

1570259059: Cost-Efficient Data Aggregation Schemes for Small Cells Networks, Btissam Er-rahmadi (University Rennes 1 & Orange Labs, France); Miloud Bagaa (Aalto University, Finland); Adlen Ksentini (Eurecom, France); Djamel-Eddine Meddour (Orange Labs, France)

1570244648: Performance analysis of multi-antenna-based spectrum sensing over fading channel, Yulong Gao and Junhui Cheng (Harbin Institute of Technology, P.R. China); Yan-ping Chen (Harbin University of Commerce); Yongkui Ma (Harbin Institute of Technology, P.R. China)

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|---|------------------------------|
| ➤ Session Title: Network Security (Security Symposium) | TA-3: Room: Aphrodite |
| ➤ Session Chair: Sadaf Nawaz (Affiliation: National University of Science & Technology, Islamabad, Pakistan) | |

1570250554: Secure Cooperative Untrusted-Relay Network with Outdated CSI, Asma Mbarouk (National School of Computer Science, Tunisia), Kamel Tourki (Huawei Technologies Co. Ltd & France Research Center, France), Nouredine Hamdi (INSAT, Carthage University & ENIT SYSCOM Laboratory, Tunisia)

1570253811: Offloading Personal Security Applications to the network edge: a Mobile User case scenario, Diego Montero, René Serral-Gracia (Technical University of Catalonia (UPC) & Networking and Information Tech. Lab NetIT Lab, Spain)

1570259595: A Secure Neighborhood Area network using IPsec, Imen Aouini (CRISTAL, Tunisia), Lamia Benazzouz (CRISTAL, Tunisia), Leila Azouz Saidane (ENSI, University of Manouba, Tunisia)

1570254208: Isolated Adversary Zone for Source Location Privacy in Wireless Sensor Networks, Ali Nassiri (University Technology Malaysia, Malaysia), Mohammad Abdur Razzaque (Trinity College, Ireland), Abdul Hanan Abdullah (University Technology Malaysia, Malaysia)

- **Session Title:** Smart Devices and Location (Mobile Computing Symposium)
- **Session Chair:** Soumaya Cherkaoui (Université de Sherbrooke, Canada)

TA-4: Room: Athena

1570253665: Deep Learning with Ensemble Classification Method for Sensor Sampling Decisions, Sirine Taleb (American University of Beirut, Lebanon); Ahmad Al Sallab (Cairo University, Egypt); Hazem Hajj and Zaher Dawy (American University of Beirut, Lebanon); Rahul Khanna (Intel Corporation, USA); Anil Keshavamurthy (Intel, USA)

1570253936: A Probabilistic Approach to User Mobility Prediction for Wireless Services, David Stynes, Kenneth N Brown and Cormac J. Sreenan (University College Cork, Ireland)

1570253659: Compression-based Energy Efficient Sensor Data Gathering Framework for Smartphones, M A Razzaque (Trinity College, Ireland); Siobhán Clarke (Trinity College Dublin, Ireland)

1570264006: The Multi-Dimensional Model for Dependability assurance in Cloud Computing, Wiem Abderrahim (Sup'Com, Tunisia), Zied Choukair (Sup'com, Tunisia)

1570252878: An Efficient VAD Algorithm based on Constant False Acceptance Rate for Highly Noisy environments, Chelloug Charaf Eddine (University Mentouri Constantine, Algeria); Atef Farrouki (Laboratoire SISCOM, Algeria)

1570260457: Outdoor Wave Propagation Model Tuning Using Data Mining Techniques, Ayadi Mohamed (SUP'COM TUNIS, Tunisia)

- **Session Title:** Multimedia Transmissions (Multimedia Symp.)

TA-5: Room: Leda

- **Session Chair:** Hamid Sharif (University of Nebraska-Lincoln, USA)

1570253605: A Resource-Efficient Approach to Steganography in Mobile Systems, Prabhat Dahal; Dongming Peng; Yaoqing Yang and Hamid Sharif (University of Nebraska-Lincoln, USA)

1570249796: Dynamic Quality Adaptive P2P Streaming System, Lamia Alkwai (King Abdulaziz City for Science and Technology, SA); Achraf Gazdar (King Saud University & College of Computer and Information Sciences, Tunisia)

1570251556: Design and Implementation of Android-Based health and healthcare system, Huifang Deng and Sihan Chen (South China University of Technology, P.R. China)

1570254000: Compressed Sensing based Adaptive Video Coding for Resource Constrained Devices, Atif-ur Rehman; Ghalib A. Shah; Muhammad Tahir (University of Engineering and Technology Lahore, Pakistan)

1570254006: Directed Graph-based Wireless EEG Sensor Channel Selection Approach for Cognitive Task Classification, Abduljalil Mohamed (Ahmed Bin Mohamed Military College, Qatar); Khaled Shaban; Amr Mohamed (QU, Qatar)

1570254104: Expert-based On-line Learning and Prediction in Content Delivery Networks, Nesrine Ben Hassine (INRIA, France); Dana Marinca (UVSQ, France); Pascale Minet (INRIA, France); Dominique Barth (University of Versailles-St Quentin, France)

- **Session Title:** Crowdsourcing (General Symp.)

TA-6: Room: Coralino

- **Session Chair:** Hossam Hassanein, (Queen's University, Canada)

1570258445: Enhancing Emergency Response Systems through Leveraging Crowdsensing and Heterogeneous Data Analytics, Mervat Abu-Elkheir (Mansoura University, Egypt); Hossam S. Hassanein and Sharief M.A. Oteafy (Queen's University, Canada)

1570259182: Cost Effective Vehicle Classification Using a Single Wireless Magnetometer, Hasan Tafish and Walid Balid (University of Oklahoma, USA); Hazem Refai (Oklahoma University, USA)

1570254247: Towards a Smart Universe: One Droplet at a Time, Khaled F. Hayajneh and Shahram Yousefi (Queen's University, Canada)

1570254079: Capacity Analysis of an OFDM-based Two-Way Relaying AF-PNC-PLC Systems, Sana Ezzine (ENIT, Tunisia)

1570254148: Internet of Nano-Things Network Models and Medical Applications, Najah A. Abu Ali (UAEU, United Arab Emirates (UAE)); Wesam Aleyadeh (Hashemite University, Jordan); Mervat Abu-Elkheir (Mansoura University, Egypt)

1570259317: Drones for Smart Cities: Issues in Cybersecurity, Privacy, and Public Safety, Edwin Vattapparamban, Ismail Güvenç, Ali Ihsan Yurekli, Kemal Akkaya and A. Selcuk Uluagac (Florida International University, USA)

- **Session Title:** 5G Communications Techniques (5G Workshop)
- **Session Chair:** Wael Guibene (Intel Labs, Ireland)

TA-7: Room: Adonis

- 1570244710:** Techniques For Resilient Real-World IoT, Keith Nolan, Mark Kelly, Michael Nolan and John Brady (Intel Labs Europe, Ireland); Wael Guibene (Intel Labs, Ireland)
- 1570244402:** Pilot Allocation for MIMO-OFDM Systems: A Structured Compressive Sensing Perspective, Xuesi Wang, Jintao Wang, Xu Ma and Changyong Pan (Tsinghua University, P.R. China)
- 1570244793:** Congestion Mitigation in 5G Networks using Drone relays, Aymen Jaziri (Orange Labs & Telecom Sudparis and UPMC, France); Ridha Nasri (Orange Labs, France); Tijani Chahed (Telecom SudParis, France)
- 1570244705:** An Uncoordinated Frequency Allocation Scheme for Future Femtocell Networks, Aysha Ebrahim; Emad Alsusa (Manchester University, United Kingdom); Mohammed W. Baidas (Kuwait University, Kuwait)
- 1570253969:** A Power Allocation Technique for Fairness and Enhanced Energy Efficiency in Future Networks, Hanifa Nabuuma (University of Manchester, United Kingdom); Emad Alsusa (Manchester University, United Kingdom); Wahyu Pramudito (University of Manchester, United Kingdom); Mohammed W. Baidas (Kuwait University, Kuwait)

Coffee Break — (15:30 - 16:00)

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

- **Session Title:** Architecture, Management, and Control (Vehicular Symp.)
- **Session Chair:** Vojislav Mistic, Ryerson University, Canada

TA-8: Room: C. Barnard

- 1570254648:** A Geographical Hybrid Solution for Inter-Vehicular Communication in VANET, Joanne Skiles and Imad Mahgoub (Florida Atlantic University, USA)
- 1570244958:** Big Vehicular Traffic Data Mining: Towards Accident and Congestion Prevention, Hamzah Al-Najada and Imad Mahgoub (Florida Atlantic University, USA)
- 1570253854:** The Potential of Transmit Data Rate Control for Channel Congestion Mitigation in VANET, Mattia Minelli (VEDECOM Institute); Samir Tohme (University of Versailles, France)
- 1570254117:** Delay-Based Strategy for Safety Message Dissemination in Vehicular Ad Hoc Networks: Slotted or Continuous?, Imen Achour (University of Carthage, Tunisia); Tarek Bejaoui (University of Paris-Sud 11, France); Anthony Busson (Ecole Normale Supérieure & Laboratoire de l'Informatique du Parallélisme, France); Sami Tabbane (Sup Telecom, Tunisia)
- 1570260000:** Hybrid Electric Vehicle Analysis and Wireless Battery Charging, Maher Guizani and O. Wasynczuk (Purdue University, USA)
- 1570258224:** Seamless Handover for High Mobility Environments, Xia Chen and Minming Ni (Beijing Jiaotong University, P.R. China)

- **Session Title:** Distributed Algorithms (Wireless Networking Symp.)
- **Session Chair:** Jelena Mistic, Ryerson University, Canada

TA-9: Room: Ambrosia

- 1570259473:** DCEV: A Distributed Cluster Formation for VANET Based on End-to-End Relative Mobility, Meysam Azizian; Soumaya Cherkaoui (Université de Sherbrooke, Canada); Abdelhakim Hafid (University of Montreal, Canada)
- 1570244736:** A Distributed Battery Recovery Effect Aware Topology Control Algorithm for Wireless Sensor Networks, Chunmei Zhang, Shengli Wan and Baoxian Zhang (University of Chinese Academy of Sciences, P.R. China); Cheng Li (Memorial University of Newfoundland, Canada)
- 1570244743:** Extendable Carrier Synchronization for Distributed Beamforming in Wireless Sensor Networks, Shuo Shi; Shida Zhu, Xuemai Gu and Ruidong Hu (Harbin Institute of Technology, P.R. China)
- 1570254767:** Distributed Compression and Blind Zone Recognition, Shaochuan Wu, Siqi Pan, Kangjian Ma and Yuming Wei (Harbin Institute of Technology, P.R. China)
- 1570254132:** Design and Performance Evaluation of a Distributed algorithm for Heterogeneous Multichannel CRNs, Maria Theodorou and Michael Paterakis (Technical University of Crete, Greece)

- **Session Title:** Multimedia Computing (Multimedia Symp.)
- **Session Chair:** Min Chen (Huazhong University of Science and Technology, P.R. China)

TA-10: Room: Aphrodite

- 1570254967:** Efficient Multimedia Broadcast for Heterogeneous Users in Cellular Networks, Chetna Singhal (Indian Institute of Technology Delhi, India); Carla-Fabiana Chiasserini and Claudio E. Casetti (Politecnico di Torino, Italy)

1570254134: An SDN Approach to Adaptive Video Streaming in Wireless Home Networks, Rabee Mustapha Abuteir, Anne Fladenmuller and Olivier Fourmaux (UPMC Sorbonne Universités, France)

1570259332: Combining Frame Rate Adaptation and Similarity Detection for Video Sensor Nodes in Wireless Multimedia Sensor Networks, Christian Salim; Abdallah Makhoul (University of Franche-Comté, France); Rony Darazi (Antonine University, Lebanon); Raphael Couturier (University of Franche-Comte, France)

1570259781: NCKC: Non-Code-aided Key Calculation for Group Key Management, Yanming Sun, Yongfeng Qian, Jeungeun Song, Yiming Miao and Min Chen (Huazhong University of Science and Technology, P.R. China)

1570260443: M-Plan: Multipath Planning based Transmissions for IoT Multimedia Sensing, Min Chen (Huazhong University of Science and Technology, P.R. China); Junfeng Wang (Zhengzhou University, P.R. China); Kai Lin (Dalian University of Technology, P.R. China); Di Wu (Sun Yat-sen University, P.R. China); Jiafu Wan (South China University of Technology, Guangzhou, P.R. China); Limei Peng (Ajou University, Korea); Chan-Hyun Youn (Korea Advanced Institute of Science and Technology, Korea)

1570244801: Enhancement of Buffering Mechanism in Hybrid Live P2P Streaming Protocol HLPSP, Chourouk Hammami (University of Manouba, Tunisia); Abdelfettah Belghith (University of Manouba & National School of Computer Sciences ENSI, Tunisia); Achraf Gazdar (King Saud University & College of Computer and Information Sciences, Tunisia)

➤ Session Title: Network Science (TRAC Workshop)	TA-11: Room: Athena
➤ Session Chair: Sandrine Vatou, (Telecom Bretagne, France)	

1570262564: Detecting and Diagnosing Anomalies in Cellular Networks using Random Neural Networks, Pedro Casas and Alessandro D'Alconzo (AIT Austrian Institute of Technology, Austria); Pierdomenico Fiadino (Eurecat - Technology Centre of Catalonia, Spain); Christian Callegari (CNIT & University of Pisa, Italy)

1570260206: How Broadcast Data Reveals Your Identity and Social Graph, Michael Faath, Rolf Winter and Fabian Weisshaar (University of Applied Sciences Augsburg, Germany)

1570262137: A Caching Policy Driven by Clusters of High Popularity, Natalia Markovich (Russian Academy of Sciences, Russia); Udo R. Krieger (Otto-Friedrich-University Bamberg, Germany)

1570263466: A Tutorial on the EM Algorithm for Bayesian Networks: Application to Self-diagnosis of GPON-FTTH Networks, Serge Romaric Tembo (Orange Labs, France); Sandrine Vatou (Telecom Bretagne, France); Jean-Luc Courant and Stéphane Gosselin (Orange Labs, France)

➤ Session Title: Routing (Wireless Networking Symp.)	TA-12: Room: Leda
➤ Session Chair: Mohammed W. Baidas (Kuwait University, Kuwait)	

1570244776: Software Defined Networking-Assisted Routing in Wireless Mesh Networks, Mohamed Labraoui; Mathias Boc (CEA, LIST, France); Anne Fladenmuller (UPMC Sorbonne Universités, France)

1570253543: An Ant Colony-Based Direct Communication Model Routing Algorithm for Wireless Emergency Communications System, Chenguang He, Tingting Liang, Weixiao Meng and Chunpeng Liu (Harbin Institute of Technology, P.R. China)

1570253589: New Greedy Forwarding Strategy for UWSNs Geographic Routing Protocols, Mohammed Jouhari; Khalil Ibrahim; Mohammed Benattou (University Ibn Tofaïl, Laboratory LaRIT, Morocco); Abdellatif Kobbane (ENSIAS, Mohammed V University of Rabat, Morocco)

1570259382: Generic Links and Paths Stability Model for Mobile Ad Hoc Networks, Hanen Idoudi; Oumaima Ben Abderrahim (National School of Computer Science, Tunisia); Khalil Mabrouk (ISIG-K, Tunisia)

1570258219: Implementation and Evaluation of Cross-layer Design with Distributed and Sequential Mapping Scheme for Video Application over IEEE 802.11e, Heba Dawoud and Mohammed Saleh (Qatar University, Qatar)

1570244516: Network Adaptive Interference Aware Routing Metric For Hybrid Wireless Mesh Networks, Ubaid Ullah and Raja Farrukh Ali; Dr. Adnan Kiani (School of Electrical Engineering and Computer Sciences - NUST, Pakistan); Rizwan Ahmad (SEECs NUST & Victoria University, Pakistan)

1570257343: Buffer-Aided Relaying Approaches for Multicast Communications, Francesco Chiti (Università degli Studi di Firenze, Italy); Romano Fantacci and Laura Pierucci (University of Florence, Italy)

➤ Session Title: Cooperative (General Symposium)	TA-13: Room: Coralino
➤ Session Chair: Ridha Hamila (Qatar University, Qatar)	

1570269077: Power Control and RB Allocation for LTE Uplink, Safa Essassi (SUPCOM, Tunisia); Mohamed Siala (Sup'Com, Tunisia); Ridha Hamila and Mazen Omar Hasna (Qatar University, Qatar); Sofiane Cherif (Sup'Com, Tunisia)

1570253947: Sharing of Energy among Service Categories in Wireless Access Networks using Shapley Value, Wilfried Yoro (Orange Labs, France); Tijani Chahed (Telecom SudParis, France); Mamdouh El Tabach, Taoufik En-Najjary and Azeddine Gati (Orange Labs, France)

1570267393: Performance Analysis of Cooperative Cognitive Terminals Operating in Different Environments, Imen Nasr (Engineering School of Communications of Tunis SUP'COM, Tunisia); Sofiane Cherif (Sup'Com, Tunisia)

1570267840: Kurtosis assisted Cross-Correlation Sensing Approach, Asma Ben Hadj Hmida (Ecole Supérieure des Communications de Tunis, Sup'Com, University of Carthage, TUNISIA, Tunisia); Sofiane Cherif (Sup'Com, Tunisia); Guillaume Ferré (University of Bordeaux, France); Hichem Besbes (Ecole Supérieure de Communications de Tunis, Sup'Com, University of Carthage, TUNISIA, Tunisia)

➤ **Session Title:** Advances Towards Efficient 5G Communications (5G Workshop)

TA-14: Room: Adonis

➤ **Session Chair:** Wael Guibene (Intel Labs, Ireland)

1570244714: An Evaluation Of Low Power Wide Area Network Technologies For The Internet Of Things, Keith Nolan (Intel Labs Europe, Ireland); Wael Guibene (Intel Labs, Ireland); Mark Kelly (Intel Labs Europe, Ireland)

1570260459: Spectrum Sharing with QoS Awareness in Cognitive Radio Networks, Nadir Adam and Mohammed Adel Abdel-Hafez (United Arab Emirates University, UAE)

1570259242: ESR: Energy aware and Stable Routing protocol for WBAN networks, Omar Smail (University of Mascara, Mascara, Algeria); Youssef Zetili and Adda Kerrar (University Mustapha Stambouli, Mascara, Algeria); Bernard Cousin (IRISA/University of Rennes 1, Rennes, France)

1570259318: A Network Coding based solution to minimize packet loss during handover in LTE-A systems: Highway scenario, Imen Jouilli; Mounir Frikha; Kawther Hassine (Sup'Com, Tunisia)

1570259417: On the TAs Reconfiguration Problem in LTE Networks, Nadine Ahmad, Haidar Safa and Wassim El-Hajj (American University of Beirut, Lebanon)

NIGHT OUT (On Your Own)

TECHNICAL PROGRAM
IEEE IWCMC 2016
Paphos, Cyprus, September 5th — 9th, 2016

Wednesday, September 7th, 2016

Registration — (8:00 - 15:00)

Room: Open Hall

KEYNOTE 2 — (9:00 - 10:00)

Room: C. Barnard

- **Speaker:** Prof. Sofiène Affes, University of Quebec, Montreal, Canada
- **Title:** Cost-, Spectrum-, and Energy-Efficient Distributed Collaborative Beamforming Designs for Real-World Applications
- **Chair:** Mario Gerla, University of California, Los Angeles (UCLA), USA

Coffee Break — (10:00 - 10:30)

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

- **Session Title:** Spectrum Sensing (Wireless Networking Symp.) **WM-1: Room: C. Barnard**
- **Session Chair:** Tamer Khattab (Qatar University, Qatar)

1570243602: When Cognitive Radio Meets The Internet of Things? Athar Khan (COMSATS Wah Cantt, Pakistan); Mubashir Husain Rehmani (COMSATS Institute of Information Technology & UPMC Sorbonne Universités Laboratoire LIP6-CNRS, France); Abderrezak Rachedi (University Paris-Est Marne-la-Vallée, France)

1570253919: Cooperative Spectrum Sharing Protocol Based on Transform Domain Processing with Joint Secondary Selection and Power Allocation, Xuanli Wu; Xingling Han (Harbin Institute of Technology, P.R. China); Fabrice Labeau (McGill University, Canada)

1570256390: Spectrum Sensing with Channel-State Diversity, Tianheng Xu and Mengying Zhang (Shanghai Research Center for Wireless Communications, P.R. China); Honglin Hu (Shanghai Advanced Research Institute, P.R. China); Yang Yang (Shanghai Research Center for Wireless Communications & CAS Shanghai Institute of Microsystem and Information Technology, P.R. China)

1570244735: An Adaptive Channel Selection Method Based On Available Channel Duration Prediction for Wireless Cognitive Networks, Zhenyu Xu; Shuo Shi; Si Tian and Zhenbang Wang (Harbin Institute of Technology, P.R. China)

1570259402: Cooperative Spectrum Sensing for Cognitive Radio Networks: Fusion Rules Performance Analysis, Rahma Bouraoui (Sup'Com & COSIM Research Lab, Tunisia); Hichem Besbes (Sup'Com, University of Carthage, Tunisia)

1570244655: Spectrum sensing based on the singular value of Gaussian random matrix and performance analysis, Yulong Gao, Xincheng Han, Ran Li and Yongkui Ma (Harbin Institute of Technology, P.R. China)

1570244711: Cooperative Spectrum Sharing with Two-Way DF Relaying, Weidang Lu and Hong Peng (Zhejiang University of Technology, P.R. China); Xin Liu (Dalian University of Technology, P.R. China); Yuan Wu (Zhejiang University of Technology, P.R. China)

- **Session Title:** Network Security (TRAC Workshop) **WM-2: Room: Ambrosia**
- **Session Chair:** Christian Callegari, University of Pisa, Italy

Keynote: Domain Name System Monitoring, Resilience and Security: state of the DNS, Stephane Bortzmeyer (AFNIC Labs, France)

1570263085: Reproducing DNS 10Gbps Flooding Attacks with Commodity-Hardware, Santiago Ruano Rincón and Sandrine Vatou (Telecom Bretagne, France); Stéphane Bortzmeyer (AFNIC, France)

1570263453: Optimizing Internet Scanning for Assessing Industrial Systems Exposure, Jérôme François (Inria Nancy Grand Est, France); Abdelkader Lahmadi (LORIA, France); Valentin Giannini, Damien Cupif, Frederic Beck and Bertrand Wallrich (Inria, France)

1570262851: Commoditising DDoS Mitigation, Alfredo Cardigliano (NTOP, Italy); Luca Deri (NTOP & IIT/CNR, Italy); Tord Lundstrom (Virtualroad, Sweden)

- **Session Title:** WSN-based Monitoring Systems (WSNs Symp.)
- **Session Chair:** Khalid Abualsaud (Qatar University, Qatar)

WM-3: Room: Aphrodite

- 1570265418:** Performance Evaluation of Experimental Damage Detection in Structure Health Monitoring using Acceleration, Khalid Abualsaud (Qatar University, Qatar); Mohamed Elersy (Memorial University of Newfoundland, Canada); Tarek M. Elfouly (Qatar University, Qatar); Mohamed Mahgoub (New Jersey Institute of Technology, USA); Mohamed Hossam Ahmed (Memorial University, Canada); Marwa Ibrahim (New Jersey Institute of Technology, USA)
- 1570253316:** Sensor Vehicular Platform for Road Maintenance, Marwane Ayaida; Beatrice Beaujet, Frederic Valentin, Fabien Bradmetz, Guillaume Picco and Bilel Rojbi (University of Reims, France)
- 1570253797:** Impact of Network Function Virtualization: A Study based on Real-Life Mobile Network Data, Bilal Ahmad (Ericsson & Aalto University, Finland); Andras Vajda (Ericsson, Finland); Tarik Taleb (Aalto University, Finland)
- 1570244858:** Strategic Data Gathering in Wireless Sensor Networks, Nour Brinis (ENSI-Tunisia & INRIA Rocquencourt - Paris, France); Mohammed-Amine Koulali (University Mohammed I & ENSAO, Morocco); Leila Azouz Saidane (ENSI, University of Manouba, Tunisia); Pascale Minet (INRIA, France); Abdellatif Kobbane (ENSIAS, Mohammed V University of Rabat, Morocco)
- 1570257622:** Novel Lightweight Multicasting Protocol for Thin-Client Systems Fuad Shamieh and Xianbin Wang (University of Western Ontario, Canada)
- 1570254048:** Optimization of spatial CSMA using a simple stochastic geometry model for 1D and 2D networks, Nadjib Achir (INRIA EVA, France); Younes Bouchaala (Versailles Saint-Quentin-en-Yvelines University & Institut VEDECOM, France); Paul Muhlethaler and Oyunchimeg Shagdar (INRIA, France)
- 1570244057:** Performance analysis of Wireless Sensor Transmission with RF Energy Harvesting, Hela Chamkhia and Mazen Hasna (Qatar University, Qatar)

- **Session Title:** System Security (Security Symposium)
- **Session Chairs:** Khaled A. Harras (Carnegie Mellon University, USA)

WM-4: Room: Athena

- 1570251893:** Capacious Spread Spectrum Watermarking Utilizing Hadamard Matrix, Hossein Tafresh, Reza Shakeri (Imam Khomeini International University, Iran), Tamer Khattab (Qatar University, Qatar)
- 1570253679:** A Management Architectural Pattern for Adaptation System in Internet of Things, Admilson de Ribamar Lima, Fernando Almeida, Edward David Moreno, Carlos Montesco (Federal University of Sergipe, Brazil)
- 1570253923:** On the Security of an Efficient Certificateless Undeniable Signature Scheme, Rouzbeh Behnia, Swee-Huay Heng (Multimedia University, Malaysia)
- 1570258990:** A SIP delayed based mechanism for detecting VOIP flooding attacks, Khaled Dassouki (Lebanese University, Lebanon), Haidar Safa (American University of Beirut, Lebanon), Abbas Hijazi (Lebanese University, Lebanon), Wassim El-Hajj (American University of Beirut, Lebanon)
- 1570260560:** Privacy Concerns in Sharing Personal Consumption Data through Online Applications, Andreas Kamilaris, Andreas Pitsillides (University of Cyprus, Cyprus), Sekhar Kondepudi (National University of Singapore, Singapore), Nikos Komninos (City University London, United Kingdom)

- **Session Title:** Wireless/Cognitive Networks (Communication & Information Theory)
- **Session Chair:** Mohammed W. Baidas, Kuwait University, Kuwait

WM-5: Room: Leda

- 1570244513:** Network Sum-Rate Maximizing and Max-Min Rate Power Allocation Over Time-Varying Multi-User Multi-Relay Amplify-and-Forward Networks, Mohammed W. Baidas (Kuwait University, Kuwait); Emad Alsusa (Manchester University, United Kingdom); Khairi A. Hamdi (University of Manchester, United Kingdom)
- 1570244514:** Power Allocation and Relay Selection Strategies for SNR Maximization in Energy Harvesting Cooperative Wireless Networks, Mohammed W. Baidas (Kuwait University, Kuwait); Emad Alsusa (Manchester University, United Kingdom)
- 1570251891:** Impact of Stochastic RF Energy Harvesting Relay on Wireless Point-to-Point Network, Reza Shakeri (Imam Khomeini International University (IKIU), Iran); Hamidreza Khakzad (Imam Khomeini International University (IKIU), Iran); Abbas Taherpour (Imam Khomeini International University, Iran); Tamer Khattab (Qatar University, Qatar)
- 1570254193:** Energy Efficient Relay Selection in Multi-hop D2D Networks, Rafay Iqbal Ansari (Frederick University & SEECs, National University of Sciences and Technology, Cyprus); Syed Ali Hassan (National University of Sciences and Technology, Pakistan); Chrysostomos Chrysostomou (Frederick University, Cyprus)
- 1570243431:** Interference-free Spectrum Sharing in Cognitive Radio Based on Combined CIOD and STBC, Mohammadreza Babaei and Umit Aygözü (Istanbul Technical University, Turkey)
- 1570260099:** A Cooperative Sensing Scheme for Cognitive Networks over Fading Channels, Qingjiao Song, Walaa Hamouda (Concordia University, Canada)
- 1570260664:** The Nonlinear Distortion Cancellation for the effect of HPA nonlinearities in Filter Bank based Multi-Carrier

(FBMC) for Cognitive Radio Systems, Lajnef Hanen (Sup'Com, Tunisia); Maha Cherif (Innov'Com Lab, Tunisia); Moez Hizem (Sup'Com, Tunisia); Ridha Bouallegue (Innov'COM @ Sup'Com., Tunisia)

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|---|-----------------------------|
| ➤ Session Title: Multimedia Services (Multimedia Symp.) | WM-6: Room: Coralino |
| ➤ Session Chair: Ruocheng Huang (Nanjing University of Posts and Telecommunications, P.R. China) | |

1570259716: Improving User's Quality of Experience in Imbalanced Dataset, Ronghua Liu, Ruocheng Huang, Yi Qian and Xin Wei (Nanjing University of Posts and Telecommunications, P.R. China); Ping Lu (ZTE Corporation, P.R. China)

1570244598: A Fast Visual Map Building Method Using Video Stream for Visual-Based Indoor Localization, Hao Xue, Lin Ma and Xuezhi Tan (Harbin Institute of Technology, P.R. China)

1570244640: Vision-Based Indoor Localization Approach Based on SURF and Landmark, Kai Guan, Lin Ma, Xuezhi Tan and Shizeng Guo (Harbin Institute of Technology, P.R. China)

1570244679: Smart Phone Camera Image Localization Method for Narrow Corridors Based on Epipolar Geometry, Yicheng Zhang, Lin Ma and Xuezhi Tan (Harbin Institute of Technology, P.R. China)

1570244819: Employing Minority Games in Self-Organizing Wireless Networks: Dynamic Channel Allocation, Maria Michalopoulou and Marina Petrova (RWTH Aachen University, Germany); Micha Rappaport (University of Klagenfurt, Austria); Petri Mähönen (RWTH Aachen University, Germany)

1570252135: Distributed Implementation of a Stable Storage for MANET Checkpointing Protocols, Haroun Benkaouha; Abdelkrim Abdelli (USTHB University- Algiers, Algeria); Jalel Ben-Othman (University of Paris 13, France); Youcef Zafoune (USTHB, University of Algiers, Algeria); Lynda Mokdad (Université de Paris 12 & Laboratoire LACL, France)

LUNCH BREAK

12:00 – 13:30

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

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|---|-------------------------------|
| ➤ Session Title: Mobility and Coverage in WSN (WSNs Symposium) | WA-1: Room: C. Barnard |
| ➤ Session Chair: Khalid Abualsaud (Qatar University, Qatar) | |

1570244676: An Adaptive Timer for RPL to handle Mobility in Wireless Sensor Networks, Fatma Gara (ENIT, Tunisia); Leila Ben Saad (University of Agder, Norway); Elyes Ben Hamida (Qatar Mobility Innovations Center (QMIC), Qatar); Bernard Tourancheau (LIG UMR 5217 & Grenoble Alps University, France); Rahma Ben Ayed (ENIT, Tunisia)

1570253629: A Cooperative Surveillance Scheme with Guaranteed Target Coverage, Waleed Alasmary (Umm Al-Qura University, Saudi Arabia)

1570254135: A Modified RPL for Wireless Sensor Networks with Bayesian Inference Mobility Prediction, Fatma Soma; Inès El Korbi (ENSI, University of Manouba, Tunisia); Cedric Adjih (INRIA, France); Leila Azouz Saidane (ENSI, University of Manouba, Tunisia)

1570254194: Wireless Sensor Network Coverage Problem Using Modified Fireworks Algorithm, Eva Tuba (University of Belgrade, Serbia); Milan Tuba (John Naisbitt University, University of Belgrade, Serbia); Dana Simian (Lucian Blaga University of Sibiu, Romania)

1570260772: NDRECT: Nodes Disjoint Routes Establishment for Critical Traffic in WSNs, Dhouha Ghrab and Imen Jemili (University of Manouba, Tunisia); Abdelfettah Belghith (King Saud University, Saudi Arabia); Mosbah Mohamed (University of Bordeaux & LaBRI, France)

1570259422: Accurate Indoor Localization Based on Crowd Sensing, Yingying Guo, Yatao Li and Yan Sun (Beijing University of Posts and Telecommunications, P.R. China)

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|---|-----------------------------|
| ➤ Session Title: Applications and Security (Wireless Networking Symp.) | WA-2: Room: Ambrosia |
| ➤ Session Chair: Mohammed Saleh (Qatar University) | |

1570269127: Lower bounds on the capacity of wireless ad hoc networks, Xue Zhang, Haigang Gong and Ming Liu (University of Electronic Science and Technology of China, P.R. China)

1570253050: An Optimal Jammer Selection for Improving Physical-Layer Security in Wireless Networks with Multiple Jammers, Haozhou Huang, Xing Zhang and Xiang Hu (Beijing University of Posts and Telecommunications, P.R. China); Pengwei Zhang (BUPT, P.R. China); Yongjing Li (Beijing University of Posts and Telecommunications, P.R. China)

1570247964: A GNSS anti-spoofing technology based on Doppler shift in vehicle networking, Wei-kong Qi (Institute of electronics, Chinese Academy of Sciences, P.R. China); Yu Zhang and Xiaohui Liu (Harbin Institute of Technology, P.R. China)

1570253395: A High Robustness Positioning Algorithm for Fingerprint Localization System, Deyue Zou, Weixiao Meng, Shuyi Chen and Di An (Harbin Institute of Technology, P.R. China)

1570260682: Modelling and Characterization of Rotor Temperature Monitoring System, Sonia Ben brahim (University of

Carthage, Tunisia); Ridha Bouallegue (Innov'COM @ Sup'Com., Tunisia); Jacques David and Tan-Hoa Vuong (LAPLACE, France)

1570244738: ZigBee-based Smart Home System Design and Dynamic Collecting Cycle Optimize, Shuo Shi; Han Liu, Shida Zhu and Xuemai Gu (Harbin Institute of Technology, P.R. China)

1570251717: An Evaluation Approach of Radio Map Quality for Fingerprint Positioning System, Di An, Wanlong Zhao, Deyue Zou and Weixiao Meng (Harbin Institute of Technology, P.R. China)

➤ Session Title: Clustering and Routing Mechanisms for WSNs (WSNs Symp.)	WA-3: Room: Aphrodite
➤ Session Chair: Jalal Almhana (University of Moncton, Canada)	

1570259613: Efficient Connectivity Preserving Clustering Protocol for Mobile Sensor Network, Jihed Eddine Said; Jalal Almhana (Universite de Moncton, Canada); Lutful Karim (Seneca College of Applied Arts and Technology, Canada)

1570253671: An optimized Weight-Based Clustering Algorithm in Wireless Sensor Networks, Fatma BelAbed (National Engineering School of Tunis, Tunisia); Ridha R. Bouallegue, B. (Ecole Supérieure des Communications de Tunis, Tunisia)

1570254105: Multi-Hop LEACH based Cross-Layer Design for Large Scale Wireless Sensor Networks, Amira Ben Ammar; Ali Dziri; Michel Terré (CNAM, France); Habib Youssef (Institut Supérieur d'Informatique et des Technologies de Communication, Tunisia)

1570259279: Minimum Energy Multi-Objective Clustering Model for Wireless Sensor Networks, Manel Souissi (National Engineering School of Tunis, University of Tunis EL-Manar. Tunisia, Tunisia); Aref Meddeb (National School of Engineering, University of Sousse, Tunisia)

1570259287: DEAR: Delay and Energy Aware Routing In Wireless Sensor Networks, Manel Souissi (National Engineering School of Tunis, University of Tunis EL-Manar, Tunisia); Aref Meddeb (National School of Engineering, University of Sousse, Tunisia)

1570258822: Linear Prediction for Data Compression and Recovery Enhancement in Wireless Sensors Networks, Zakia Jellali (Higher School of Communications of Tunis, Tunisia); Leila Najjar and Sofiane Cherif (Sup'Com, Tunisia)

1570237205: BIETX: A New Quality Link Metric for Static Wireless Multi-hop Networks, Nadeem Javaid; Ashfaq Ahmad (COMSATS Institute of IT, Pakistan); Muhammad Imran; Ahmad Alhamed (KSU, Saudi Arabia); Mohsen Guizani (University of Idaho, USA)

1570260646: An advanced energy consumption model for terrestrial wireless sensor networks, Ashfaq Ahmad; Nadeem Javaid (COMSATS Institute of IT, Pakistan); Muhammad Imran (KSU, Saudi Arabia); Mohsen Guizani (University of Idaho, USA); Ahmad Alhamed (KSU, Saudi Arabia)

➤ Session Title: Designs and Protocols (Security Symposium)	WA-4: Room: Athena
➤ Session Chairs: Yejun He, Shenzhen University, China	

1570254431: Printed J-slot Patch Antenna for Millimeter-wave Applications, Hang Liu and Yejun He (Shenzhen University, P.R. China); Hang Wong (City University of Hong Kong, Hong Kong); Zhongxiang Shen (Nanyang Technological University, Singapore)

1570259665: Adaptive Backoff Algorithm for EDCA in the IEEE 802.11p protocol, Yamen Nasrallah (University of Ottawa, Canada); Irfan S. Al-Anbagi (University of Regina, Canada); Hussein T. Mouftah (University of Ottawa, Canada)

1570253430: A Bayesian Network based estimation technique for IEEE 802.11P Vehicular communication systems, Sassi Aymen (Higher Institute of Computer Science of Medenine, Tunisia)

1570254197, Study Of A Dual Radio Sensor Platform For Effective On-Board Real-Time Monitoring Of Freight Trains, Sushanta Mohan Rakshit; Michael Hempel and Hamid Sharif (University of Nebraska-Lincoln, USA)

1570245103, Opportunities in Vehicular Opportunistic Networking, Yomna Sabry (CMUQ, Qatar); Abderrahmen Mtibaa (Texas A&M University, USA); Khaled A. Harras (Carnegie Mellon University, USA)

➤ Session Title: QoE/QoS in Future Networks (IoT and M2M) (QoS Workshop)	WA-5: Room: Leda
➤ Session Chair: Abderrezak Rachedi, Université Paris-Est, France	

1570259543: A Real Independent Centimeter-Grade 3D Indoor Localization System on Smartphone, Fan Dang, Xuan Ding, Pengfei Zhou (Tsinghua University, China)

1570254205: Experimental Study of Link Quality in IEEE 802.15.4 using Z1 Motes, Adnan Noor (Mian Information Technology University, Pakistan), Sheeraz A. Alvi (University of Engineering and Technology, Lahore & Al-Khawarizmi Institute of Computer Science, Pakistan) Raees Khan (Information Technology University (ITU), Lahore, Pakistan), Muhammad Zulqarnain (Ebryx, Pakistan), Waleed Iqbal (ITU, Pakistan)

1570252572: Low-Cost Mobile Personal Clouds, Milena Radenkovic (University of Nottingham, United Kingdom), Vu San Ha Huynh (University of Nottingham, United Kingdom)

1570245151: An Improvement Algorithm on RANSAC for Image-based indoor localization, Ke Wan, Lin Ma, Xuezhi Tan

(Harbin Institute of Technology, China)

1570266336: QoS-guaranteed Cross-Layer Design for Joint Adaptive Modulation and Coding, Power Control, and ARQ Protocol, Asma Selmi (SUP'COM, Tunisia); Mohamed Siala (Sup'Com, Tunisia); Hatem Boujemaa (Ecole Supérieure des Communications, Tunisia)

1570267784: Joint Superposition Coding and Great Fairness Admission Control for QoS provisioning in LTE systems, Abbes Yosra (Supcom, Tunisia); Sameh Najeh (Sup'com, Tunisia); Hichem Besbes (Ecole Supérieure de Communications de Tunis, Sup'Com, University of Carthage, TUNISIA, Tunisia)

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| ➤ Session Title: Wireless Communications I (Comm. and SP Symp.) | WA-6: Room: Coralino |
| ➤ Session Chair: Slaheddine Jarbouï (National School of Engineers of Tunis, Tunisia) | |

1570259319: A Novel Optimal Cross-Correlation Combining based Sensing Approach, Asma Ben Hadj Hmida; Sofiane Cherif (Sup'Com, Tunisia); Guillaume Ferré (University of Bordeaux, France); Hichem Besbes (Sup'Com, University of Carthage, TUNISIA, Tunisia)

1570259335: New Tighter Upper Bounds on the Performance of convolutional code over Exponentially Correlated Rayleigh Fading channel, Yassine Mouchtak; Faissal El Bouanani (ENSIAS, Mohammed V University in Rabat, Morocco)

1570263681: Blind Phase Synchronization for Multiple-antenna Systems, Emna Ben Slimane; Slaheddine Jarbouï and Ammar Bouallegue (National School of Engineers of Tunis, Tunisia)

1570259022: Throughput and Energy Efficiency of Two-tier Cellular Networks: Massive MIMO Overlay for Small Cells, Sadaf Nawaz; Syed Ali Hassan (National University of Sciences and Technology, Pakistan); Syed Ali Raza Zaidi; Mounir Ghogho (University of Leeds & International University of Rabat, United Kingdom)

Coffee Break — (15:30 - 16:00)

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

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| ➤ Session Title: QoE/QoS in Networking & Transporting Techniques (QoS Work.) | WA-7: Room: C. Barnard |
| ➤ Session Chair: Abderrezak Rachedi, Université Paris-Est, France | |

1570254081: Scheduling Algorithm based on PID Controller for OFDM Wireless Networks, Abderrezak Rachedi (University Paris-Est Marne-la-Vallée, France); Cedric Gueguen (University of Rennes 1, France)

1570260758: Energy, Load, and QoS-aware Routing Protocol for Ad Hoc Networks, Salwa Othmen, Faouzi Zarai, Aymen Belghith, Lotfi Kamoun (University of Sfax, Tunisia)

1570254128: A Novel Cognitive Architecture for QoS/QoE Management in NextG Networks Based on Q-Learning and R-MLP approaches, Aymen Ben Zineb, Ayadi Mohamed, Sami Tabbane (SupCom, Tunisia)

1570254040: Modeling Joint Usage of Random and Deterministic Channel Access in Wi-Fi Networks, Aleksandr Sergeevich Ivanov, Evgeny Khorov, Ilya Solomatin, Andrey Lyakhov (IITP RAS, Russia)

1570254137: QoS Prediction in Ubiquitous Environments: an MLR based service selection approach, Rim Helali (University of Manouba, Tunisia), Nadia Ben Azzouna (University of Tunis, Tunisia), Khaled Ghédira (University of Tunis, Tunisia)

1570249539: Primary and Secondary QoS-guaranteed Cooperative Spectrum Sharing with Optimal Power Allocation, Weidang Lu, Yufei Zhu, Hong Peng, Feng Li (Zhejiang University of Technology, China) Xin Liu (Dalian University of Technology, China), Jingyu Hua (Zhejiang University of Technology, China)

1570260517: Cooperative Secondary Users Selection in Cognitive Radio Ad Hoc Networks, Aohan Li (Heilongjiang University, P.R. China); Guangjie Han (Hohai University, P.R. China); Lei Shu (Guangdong University of Petrochemical Technology, P.R. China); Mohsen Guizani (University of Idaho, USA)

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| ➤ Session Title: Resource Allocation (Wireless Networking Symposium) | WA-8: Room: Ambrosia |
| ➤ Session Chair: Ali F. Almutairi (Kuwait University, Kuwait) | |

1570251863: Performance of Different Weighting Techniques with DIA MADM Method in Heterogeneous Wireless Networks, Ali F. Almutairi, Mohamed Landolsi and Hawraa Al-Mashmoum (Kuwait University, Kuwait)

1570240599: Simultaneous Wireless Information and Power Transfer in OFDM Systems based on Subcarrier Allocation, Jiaying Wu, Weidang Lu and Hong Peng (Zhejiang University of Technology, P.R. China); Xin Liu (Dalian University of Technology, P.R. China); Jingyu Hua (Zhejiang University of Technology, P.R. China)

1570252498: Joint Access-Selection and Power Allocation for Mobile Data Offloading in Cellular Networks, Yuan Wu, Kuanyang Guo and Liping Qian (Zhejiang University of Technology, P.R. China); Jiaheng Wang (Southeast University, P.R. China); Weidang Lu (Zhejiang University of Technology, P.R. China)

1570245725: OHMP-CAC: Optimized Handoff Scheme Based on Mobility Prediction and QoS Constraints for Femtocell Networks, Ahlam Ben Cheikh (UPMC, France); Mouna Ayari (ENSI & LIP6 - UPMC- Paris 6 - France, Tunisia); Rami Langar (UPMC - University of Paris 6, France); Leila Azouz Saidane (ENSI, University of Manouba, Tunisia)

1570249522: Anti-Interference Cooperative Spectrum Sharing Based on Fairness Secondary User Selection, Weidang Lu, Chenxin He, Jiaying Wu and Hong Peng (Zhejiang University of Technology, P.R. China); Xin Liu (Dalian University of Technology, P.R. China)

1570244713: Sparse Codes Allocation in D2D Communications Underlying Cellular Network, Yue Li (Harbin Institute of Technology, P.R. China); Xuejun Sha (Communication Research Center, Harbin Institute of Technology, P.R. China); Fan Jiang and Liang Ye (Harbin Institute of Technology, P.R. China)

1570244779: Charger Mobility Scheduling and Modeling in Wireless Rechargeable Sensor Networks, Jinzhao Suo, Zheng Yao and Baoxian Zhang (University of Chinese Academy of Sciences, P.R. China); Cheng Li (Memorial University of Newfoundland, Canada)

➤ Session Title: MAC and Scheduling Protocols for WSN (WSNs Symposium)	WA-9: Room: Aphrodite
➤ Session Chair: Hamid Sharif (University of Nebraska-Lincoln, USA)	

1570244456: A Distributed Medium Access Mechanism for In-band Full-duplex Wireless Networks, Haiwei Zuo, Yanjing Sun, Song Li and Qi Cao (China University of Mining and Technology, P.R. China); Hongli Xu (University of Science and Technology of China, P.R. China); Gongbo Zhou (China University of Mining and Technology, P.R. China)

1570244546: Evaluation of a Duty-cycled Protocol for TDMA-Based Wireless Sensor Networks, Mohammed Hasan; Fadi M. Al-Turjman (Akdeniz University, Turkey); Hussain Al-Rizzo (University of Arkansas at Little Rock, USA)

1570244628: Multi-Path Selection and Scheduling Scheme for Multi-Description Video Streaming in Wireless Multi-Hop Networks, Jie Wu, Zhou Zhu, Xin Di, Zhaoyu Zhang; Jun Tian (Fujitsu R&D Center Co., Ltd., P.R. China)

570254139: Enhanced Energy Computation of Unslotted IEEE 802.15.4 under Unsaturated Traffic Conditions, Inès El Korbi (University of Manouba, Tunisia); Leila Azouz Saidane (ENSI, University of Manouba, Tunisia)

1570260482: Scheduling Algorithm for Multiclass Services in LTE Network, Radhia Khdir, JR (LETI, Tunisia); Aymen Belghith (University of Sfax, Tunisia); Kais Mnif (ENET'COM, University of Sfax, Tunisia); Lotfi Kammoun (Professor, Tunisia)

➤ Session Title: Context and Crowds (Mobile Computing Symposium)	WA-10: Room: Athena
➤ Session Chair: Mohammed Saleh (Qatar University)	

1570252873: Server Link Load Modeling and Request Scheduling for Crowdsourcing-Based Benchmarking Systems, Cise Midoglu; Leonhard Wimmer (Vienna University of Technology, Specure GmbH, Austria, Austria); Philipp Svoboda (Vienna University of Technology, Austria)

1570254175: Fairness-Aware UAV-Assisted Data Collection in Mobile Wireless Sensor Networks, Xiaoyan MA (University of Toulouse, France); Rahim Kacimi (IRIT & IRIT Laboratory, France); Riadh Dhaou (IRIT/ENSEEIH, University of Toulouse, France)

1570257804: RB Allocation based on Genetic algorithm in Cloud Radio Access Networks, Safa Essassi (SUPCOM, Tunisia); Ridha Hamila (Qatar University, Qatar); Sofiane Cherif and Mohamed Siala (Sup'Com, Tunisia); Mazen Hasna (Qatar University, Qatar)

1570262862: Parallelizing Motion Estimation for Reducing the Complexity of HEVC/H.265 Video Codec in Wireless Environments, Divya Nityanand, Shreyas Janardhan and Ishfaq Ahmad (University of Texas at Arlington, USA); Viswanathan Swaminathan (Adobe Systems Inc. USA)

1570258656: Enhanced SA-based Charging Algorithm for WRSN, Wei-Che Chien (National Ilan University, Taiwan); Hsin-Hung Cho (National Central University, Taiwan); Han-Chieh Chao (National Ilan University, Taiwan); Timothy Shih (National Central University, Taiwan)

1570255145: Understanding the Impact of Network Structure on Propagation Dynamics based on Mobile Big Data, Yuanfang Chen (Institut Mines-Telecom, Telecom SudParis & Université Pierre et Marie Curie (UPMC), France); Lei Shu (Guangdong University of Petrochemical Technology, P.R. China); Noel Crespi (Institut Mines-Télécom, Télécom SudParis, France); Gyu Myoung Lee (Liverpool John Moores University, United Kingdom); Mohsen Guizani (University of Idaho, USA)

➤ Session Title: Wireless Comm. II (Communication & Information Theory Symp.)	WA-11: Room: Leda
➤ Session Chair: Slaheddine Jarbouli (National School of Engineers of Tunis, Tunisia)	

1570244716: Heuristic Antenna Combination Selection in Generalised Spatial Modulation, Yue Sun, Jintao Wang, Longzhuang He, Changyong Pan and Jian Song (Tsinghua University, P.R. China)

1570254141: Differential Detection using Rotated QPSK with Transmit Diversity, Emna Ben Slimane; Slaheddine Jarboui and Ammar Bouallegue (National School of Engineers of Tunis, Tunisia)

1570256225: Localization as a Feature of mmWave Communication, Filip Lemic (Technische Universität Berlin, Germany); James C Martin and Christopher Yarp (University of California, Berkeley, USA); Douglas Chan (CISCO, USA); Vlado Handziski (Technische Universität Berlin, Germany); Robert Brodersen (University of California at Berkeley, USA); Gerhard Fettweis (Technische Universität Dresden, Germany); Adam Wolisz (TUB, Germany); John Wawrzyniek (UC Berkely, USA)

1570259253: Performance of Non-Coherent Decode-and-Forward Relaying Over Time-Varying Fading Channels, Shahrzad Safdari and Abbas Taherpour (Imam Khomeini International University, Iran); Tamer Khattab (Qatar University, Qatar)

➤ **Session Title:** M2M Communications (M2M & IoT Workshop)

WA-12: Room: Coralino

➤ **Session Chair:** Chih-Wei Huang, National Central University, Taiwan

1570244489: A Novel and Interoperable Communication Gateway Implementation for Evacuation Systems, Lazaros Karagiannidis; Fay Misichroni; Yannis Damigos; Athanasia Tsertou and Angelos Amditis (Institute of Communication and Computer Systems (ICCS), Greece)

1570252975: Towards an Intelligent Home Energy Management System for Smart MicroGrid Applications, Chaimaa Essayeh and Mohammed Raiss El Fenni (INPT, Morocco); Hamza Dahmouni (INPT & Ecole Polytechnique de Montréal - GERAD, Canada)

1570253761: Energy-Efficient Scheduling Algorithms for Real-Time Data Reporting in 4G LTE Machine-to-Machine Communication Networks, Po-Chun Shen (National Tsing Hua University, Taiwan); Shun-Ren Yang (NTHU, Taiwan); Phone Lin (National Taiwan University, Taiwan)

1570254174: Social Deference and Hunger as Mechanisms for Starvation Avoidance in Cognitive Radio Societies, Anna Wisniewska (City University of New York, USA); Bilal Khan (University of Nebraska-Lincoln, USA); Ala Al-Fuqaha (Western Michigan University, USA); Kirk Dombrowski (University of Nebraska-Lincoln, USA); Mohammad Abu Shattal (Western Michigan University & Al-Hussein Bin Talal University, USA)

1570253807: Out-of-Order Transmission Enabled Congestion and Scheduling Control for Multipath TCP, Shih-Hao Ou, Chih-Wei Huang, Tzu-Kuan Lee and Chih-Yang Huang (National Central University, Taiwan)

1570260564: Joint Energy-Efficient Cooperative Spectrum Sensing and Power Allocation in Cognitive Machine-to-Machine Communications, Hai Ngoc Pham (University of Oslo & Simula Research Laboratory, Norway); Yan Zhang (Simula Research Laboratory and University of Oslo, Norway); Tor Skeie (Simula Research Lab, Norway); Paal E. Engelstad (Oslo and Akershus University College, University of Oslo/UNIK and FFI, Norway); Frank Eliassen (University of Oslo, Norway)

1570260124: Cloud-based Data-intensive Framework towards Fault Diagnosis in Large-scale Petrochemical Plants, Zhiqiang Huo (China University of Geosciences Beijing, P.R. China); Mithun Mukherjee (Guangdong Provincial Key Lab of Petrochemical Equipment Fault Diagnosis, P.R. China); Lei Shu (Guangdong University of Petrochemical Technology, P.R. China); Yuanfang Chen (Institut Mines-Telecom, Telecom SudParis & Université Pierre et Marie Curie (UPMC), France); Zhangbing Zhou (Institut TELECOM & Management SudParis, P.R. China)

DINNER BANQUET

19:00 – 21:00

#

TECHNICAL PROGRAM
IEEE IWCMC 2016
Paphos, Cyprus, September 5th — 9th, 2016

Thursday, September 8th, 2016

Registration — (8:00 - 15:00)

Room: Open Hall

KEYNOTE 3 — (9:00 - 10:00)

Room: C. Barnard

- **Speaker:** Mario Gerla, University of California, Los Angeles (UCLA), USA
- **Title:** Internet of Vehicles
- **Chair:** Sofiene Affes, University of Qubec, Montreal, Canada

Coffee Break — (10:00 - 10:30)

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

- **Session Title:** Heterogeneous Network Mechanisms (WSNs Symp.) **ThM-1: Room: C. Barnard**
- **Session Chair:** Mario Gerla, University of California, Los Angeles (UCLA), USA

1570242424: Employing Grey Model forecasting GM(1,1) to historical medical sensor data towards system preventive in smart home e-health for elderly person, Rim Jouini (Lab CRISTAL- ENSI, University Manouba, Tunisia); Tayeb Lemlouma (IRISA Lab and Rennes 1 University, France); Karima Maalaoui (University of Manouba, Tunisia); Leila Azzouz Saidane (Lab CRISTAL- ENSI, University Manouba, Tunisia)

1570244540: Analytical analysis of fault management in MANETs, Amadou Baba Bagayoko (Institut National Polytechnique Toulouse- ENSEEIHT & Irit Laboratory Team Irt, France); Riadh Dhaou (IRIT/ENSEEIHT, University of Toulouse, France); Beatrice Paillassa (University of Toulouse & Laboratory IRIT, France)

1570254107: Performance Analysis of Decode and Forward Relaying over Generalized-K Channels at Arbitrary SNR for Wireless Sensor Networks, Ali Dziri; Michel Terré (CNAM, France); Nidal Nasser (Alfaisal University, Saudi Arabia)

1570258966: Modeling and Enhancement of IEEE 802.15.6, Hend Fourati; Hanen Idoudi; Leila Azouz Saidane (ENSI, University of Manouba, Tunisia)

1570259341: Ultra Wide Band Audio Visual PHY IEEE 802.15.3c for WMSNs, Asma Ben Abdallah (Higher School of Communication of Tunis, Tunisia); Zribi Amin (Higher Institute of Communication Technology & Telecom Bretagne, Tunisia); Ali Dziri (CNAM Paris, France); Fethi Tlili (Ecole Supérieure de Communications de Tunis, Tunisia); Michel Terré (CNAM, France)

1570260610: A Core-Stateless IP Mobility Management Scheme Based on OpenFlow Protocol, Yicheng Dai, Fenghua Li, Hewu Li and Qian Wu (Tsinghua University, P.R. China)

- **Session Title:** OFDM (Comm and SP Symp.) **ThM-2: Room: Ambrosia**
- **Session Chair:** Imad Mahgoub (Florida Atlantic University, USA)

1570244118: OFDM-Aided Packet-Appended BICM-ID, Maciej Krasicki (Poznan University of Technology, Poland)

1570254157: OFDMA-based WiMAX Connection Admission Control Based on Fuzzy Logic Controller, Elnaz Limouchi, Ali Zilouchian and Imad Mahgoub (Florida Atlantic University, USA)

1570260650: Asynchronous OFDM Interference Analysis in Multi-user Cognitive Radio Networks; Sonia Ben Aissa, Moez Hizem; Ridha Bouallegue (Sup'Com, Tunisia)

1570253888: The impact of the nonlinear distortion on OFDM and FBMC signals based cognitive radio applications over Rayleigh fading channel, Lajnef Hanen; Maha Cherif; Moez Hizem; Ridha Bouallegue (Innov'COM @ Sup'Com., Tunisia)

END OF SESSIONS

**TECHNICAL PROGRAM
IEEE IWCMC 2017**

Paphos, Cyprus, September 5th — 9th, 2016

Friday, September 9th, 2016

No Sessions Scheduled on Friday

EXCURSIONS/SIGHTSEEING (On Your Own)



The **13th** International Wireless
Communications and Mobile Computing
Conference
June 27th - 30th, 2017
Polytechnic University of Valencia
Holiday Inn Hotel, Valencia, Spain

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The International Wireless Communications and Mobile Computing Conference (IWC MC 2017) will be held in Holiday Inn Hotel, Valencia, Spain; June 27—30, 2017. Under the theme of "Plethora Communications," IWC MC 2017 will target a wide spectrum of the state-of-the-art as well as emerging topics pertaining to wireless networks, wireless communications, and mobile computing. Continuing the great success of previous IWC MC events, IWC MC 2017 is anticipated to attract a large number of high-quality submissions and stimulate the cutting-edge research discussions among many academic pioneering researchers/scientists and industrial engineers/leaders from all around the world.

The IWC MC 2017 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/2017>. Prospective authors are invited to submit original technical papers—up to 6 pages of length, using the EDAS link: <https://edas.info> to various IWC MC 2017 Symposia and Workshops as listed in the conference website for possible publication in the IWC MC 2017 Conference Proceedings, which will be submitted in the IEEE Digital Library-*Xplore*. Selected papers will be further considered for possible publication in five special issues in the following Journals:

- 1) *Wiley Journal of Wireless Communications and Mobile Computing (WJWC)*
- 2) *The International Journal of Sensor Networks (IJSNet)*
- 3) *The International Journal of Autonomous and Adaptive Communications Systems (IJAACS)*
- 4) *KSII Transactions on Internet and Information Systems*
- 5) *Peer-to-Peer Networking & Applications*

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

Important Dates:

Paper Submission Deadline:	10 January 2017
Paper Acceptance Notification:	30 March 2017
Camera-ready Paper Submissions:	30 April 2017
Registration Deadline for Authors:	30 April 2017

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