

2017 13th International Wireless Communications and Mobile Computing Conference (IWCMC 2017)

**Valencia, Spain
26-30 June 2017**

Pages 1-710



**IEEE Catalog Number: CFP1719E-POD
ISBN: 978-1-5090-4373-6**

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IEEE Catalog Number:	CFP1719E-POD
ISBN (Print-On-Demand):	978-1-5090-4373-6
ISBN (Online):	978-1-5090-4372-9
ISSN:	2376-6492

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Session Chair: Shuai Han, Harbin Institute of Technology, P.R. China

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Session Chair: Amr Mohamed, Qatar University, Qatar

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Bo Tan (Coventry University, United Kingdom)
Robert J. Piechocki (University of Bristol, United Kingdom)

Friday, June 29th, 2017

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Session Chair: Francisco Barcelo-Arroyo, Technical University of Catalonia, Spain

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Fabio Perrone (Politecnico di Torino, Italy)
Enrica Zola (Universitat Politècnica de Catalunya, Spain)
Francisco Barcelo-Arroyo (Universitat Politècnica de Catalunya, Spain)

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Hossam Afifi (Télécom SudParis, France)

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Session Chair: Yujun He, Shenzhen University, China

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Vahid Meghdadi (University of Limoges, France)
Ammar Bouallégué (ENIT, Tunisia)

FrM-3: WSNs Applications (WSNs Symposium)

Session Chair: Davide Brunelli, University of Trento, Italy

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Saba Gull (COMSATS Institute of Information Technology, Pakistan)
Saiful Islam (COMSATS Institute of Information Technology, Islamabad, Pakistan)
Muhammad Imran (King Saud University, Saudi Arabia)
Najmul Hassan (COMSATS Institute of Information Technology, Islamabad, Pakistan)
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Session Chair: Jesus Mendoza, Polytechnic University of Catalonia, Spain

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António Furtado (Universidade Nova de Lisboa/Instituto de Telecomunicações, Portugal)

David Vicente (Universidade Nova de Lisboa, Portugal)

Rodolfo Oliveira (Universidade Nova de Lisboa/Instituto de Telecomunicações, Portugal)

Luis Bernardo (Universidade Nova de Lisboa/Instituto de Telecomunicações, Portugal)

Rui Dinis (Universidade Nova de Lisboa/Instituto de Telecomunicações, Portugal)

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Tao Han (HUST, P.R. China)

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Session Chair: Somaya Ali Al-maadeed, Qatar University, Qatar

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Ahmed Mehaoua (Paris Descartes University, France)

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Adel Benzina (Tunisia Polytechnic School, Tunisia)
Rabah Attia (Tunisia Polytechnic School, Tunisia)

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Session Chair: Mohamad Ali, Imine Youcef, University de Technology de Compiègne, France

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Ahmed Mehaoua (University of Paris Descartes, France)

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Irfan Latif Khan (COMSATS Institute of Information Technology, Pakistan)
Atif Shakeel (COMSATS Institute of Information Technology, Pakistan)
Bilal Ijaz (COMSATS Institute of Information Technology, Pakistan)
Shahzad A. Malik (COMSATS Institute of Information Technology, Pakistan)

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Amin Zribi (University of Carthage/Tunis Elmanar University, Tunisia)
Ali Dziri (CNAM, France)
Fethi Tlili (University of Carthage, Tunisia)
Michel Terré (CNAM, France)

FrM-8: Advances towards Efficient 5G Communications (5G Workshop)

Session Chair: Jose Monserrat, Universitat Politècnica de València, Spain

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David Martín-Sacristán (Universitat Politècnica de València, Spain)
Sandra Roger (Universitat Politècnica de València, Spain)
Daniel Calabuig (Universitat Politècnica de València, Spain)
Jose F. Monserrat (Universitat Politècnica de València, Spain)

A Polynomial Expansion based Detection: A Low-Complexity Approach for Generalised Spatial Modulation over Transmit Antenna Correlation 1830
Yue Sun (Tsinghua University, P.R. China)
Jintao Wang (Tsinghua University, P.R. China)
Changyong Pan (Tsinghua University, P.R. China)

Energy Consumption Analysis of SDF and Non-Cooperative Schemes Over Nakagami-m channel and Under Outage Probability Constraint 1834
Lamia Grira (ENIT/UTM, Tunisia)
Ridha Bouallegue (Sup'Com, Tunisia)

Fuzzy Q-Learning-Based User-Centric Backhaul-Aware User Cell Association Scheme 1840
Farrukh Pervez (National University of Sciences and Technology Islamabad/Information Technology University Lahore, Pakistan)
Mona Jaber (University of Surrey, United Kingdom)
Junaid Qadir (Information Technology University Lahore, Pakistan)
Shahzad Younis (National University of Sciences and Technology, Pakistan)
Muhammad Ali Imran (University of Glasgow, United Kingdom)

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Soumaya Hamouda (Sup'Com, Tunisia)
Loutfi Nuaymi (Telecom Bretagne, France)
Philippe Godlewski (Télécom ParisTech, France)

A Distributed IBFD MAC Mechanism and Non-saturation Throughput Analysis for Wireless Networks 1851
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Yanjing Sun (China University of Mining and Technology, P.R. China)
Song Li (China University of Mining and Technology, P.R. China)
Qi Cao (China University of Mining and Technology, P.R. China)
Yan Chen (China University of Mining and Technology, P.R. China)
Wenjuan Shi (China University of Mining and Technology, P.R. China)
Xiaolin Wang (China University of Mining and Technology, P.R. China)

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Qi Zhu (Nanjing University of Posts and Telecommunications, Nanjing, P.R. China)
Hongbo Zhu (Nanjing University of Posts and Telecommunications, Nanjing, P.R. China)

FrA-1: Big Data Security (Big Data Symposium)
Session Chair: Frederick Sheldon, University of Idaho, USA

Security Management of Cyber Physical Control Systems using NIST SP 800-82r2 1864
Ananth A. Jillepalli (University of Idaho, USA)
Frederick T. Sheldon (University of Idaho, USA)
Daniel Conte de Leon (University of Idaho, USA)
Michael Haney (University of Idaho, USA)
Robert K. Abercrombie (Prime Time Computing, LLC, USA)

Lightweight Format-Compliant Encryption Algorithm for JPEG 2000 Images 1871

Z. Fawaz (University of Bourgogne-Franche-Comté, France)
H. Noura (Lebanese University, Lebanon)
A. Mostefaoui (University of Bourgogne-Franche-Comté, France)

A New Steganalysis Method to Detect Information Hiding in Speech 1879

Fatiha Djebbar (United Arab Emirates University, UAE)
Beghdad Ayad (Dubai Aviation University, UAE)

Protocol for Preserving Privacy in Distributed System (PPDS) 1885

Achref Aloui (University Paris VIII, France)
Mounira Msahli (Télécom ParisTech, France)
Talel Abdessalem (Télécom ParisTech, France)
Stephane Bressan (National University of Singapore, Singapore)
Sihem Mesnager (University Paris VIII, France)

IEEE 802.15.4 Security Sublayer for OMNET++ 1891

Ghada Glissa (University of Tunis El Manar, Tunisia)
Aref Meddeb (University of Sousse, Tunisia)

Data Redundancy May Lead to Unreliable Intrusion Detection Systems 1897

Mohammed Al-Rawi (Universidade de Aveiro, Portugal)
Yasmin Al-Zuqary (AraVis, Germany)
Firooz B. Saghezchi (Universidade de Aveiro, Portugal)
Jie Yang (Shanghai Jiao Tong University, P.R. China)
Joaquim Bastos (Instituto de Telecomunicações, Portugal)
Jonathan Rodriguez (Universidade de Aveiro, Portugal)

CTMS-SIOT: A Context-based Trust Management System for Social Internet of Things 1903

Oumaima Ben Abderrahim (ENSI, Tunisia)
Mohamed Elhoucine Elhdhili (ENSI, Tunisia)
Leila Saidane (ENSI, Tunisia)

FrA-2: IoT 3 (IoT Symposium)

Session Chair: Sonia Aïssa, INRS, University of Quebec, Canada

A Coalition Formation Algorithm for Multi-Robot Task Allocation in Large-Scale Natural Disasters 1909

Carla Mouradian (Concordia University, Canada)
Jagruati Sahoo (South Carolina State University, USA)
Roch H. Glitho (Concordia University, Canada)
Monique J. Morrow (CISCO Systems, Switzerland)
Paul A. Polakos (CISCO Systems, USA)

Context Aware Middleware for RFID based Pharmaceutical Supply Chain 1915

Marwa Chamekh (Sup'Com, Tunisia)
Mohamed Hamdi (Sup'Com, Tunisia)
Sadok El Asmi (Sup'Com, Tunisia)
Tai-Hoon Kim (University of Tasmania, Australia)

Enhancing the Throughput of 802.11ah Sectorized Networks using AID-based Backoff Counters 1921

Hanifa Nabuuma (University of Manchester, United Kingdom)
Emad Alsusa (Manchester University, United Kingdom)

On the Energy Efficiency and Stability of RPL Routing Protocol 1927
Sheeraz A. Alvi (The Australian National University, Australia)
Fakhar ul Hassan (Information Technology University, Pakistan)
Adnan Noor Mian (Information Technology University, Pakistan)

On Route Maintenance and Recovery Mechanism of RPL 1933
Sheeraz A. Alvi (The Australian National University, Australia)
Adnan Noor Mian (Information Technology University, Pakistan)

A Privacy-Preserving Homomorphic Encryption Scheme for the Internet of Things 1939
Jaweher Zouari (Sup'Com, Tunisia)
Mohamed Hamdi (Sup'Com, Tunisia)
Tai-Hoon Kim (Sungshin Women University, Korea)

Analysis of Reactive Multi-Branch Relaying under Interference and Nakagami-m Fading 1945
Amir. H. Forghani (INRS, University of Quebec, Canada)
Sonia Aïssa (INRS, University of Quebec, Canada)
Minghua Xia (Sun Yat-sen University, P.R. China)

FrA-3: Next Generation Networking (NGSN Symposium)
Session Chair: Jalal Almhana, University of Moncton, Canada

A Centralized Inter-Cell Rank Coordination Mechanism for 5G Systems 1951
Nurul Huda Mahmood (Aalborg University, Denmark)
Klaus Ingemann Pedersen (Aalborg University/Nokia Bell Labs, Denmark)
Preben Mogensen (Aalborg University/Nokia Bell Labs, Denmark)

Comparative Analysis of downlink Scheduling Algorithms for LTE Femtocells Networks 1957
Yosra Benchaabene (University of Gabes, Tunisia)
Noureddine Boujnah (University of Gabes, Tunisia)
Faouzi Zarai (University of Sfax, Tunisia)

Design of 4G LTE Testbed for Implementing Green Cellular Algorithm 1962
Gaurav Kulkarni (San Diego State University, USA)
Mahasweta Sarkar (San Diego State University, USA)
Santosh Nagaraj (San Diego State University, USA)
Syed Hassan Ahmed (Kyungpook National University, Korea)

More Clients Connected by NOMA in the Downlink Transmission of WLANs 1968
Zhong Tian (Tsinghua University, P.R. China)
Jun Wang (Tsinghua University, P.R. China)
Jintao Wang (Tsinghua University, P.R. China)
Chao Zhang (Tsinghua University, P.R. China)
Zihan Tang (Tsinghua University, P.R. China)
Feiteng Wu (Tsinghua University, P.R. China)

Handover based on a Multi Criteria approach in WiMax Networks 1974
Wafa Benaatou (Cadi Ayyad University, Morocco and Universitat Politècnica de València, Spain)
Vicent Pla (Universitat Politècnica de València, Spain)
Adnane Latif (Cadi Ayyad University, Morocco)
Mohd Dani Baba (Universiti Teknologi MARA, Malaysia)

Reactive and Proactive Strategies for Content Update in Content-Centric and Multi-users WSNs 1980

Ghada Jaber (University of Toulouse, France)
Rahim Kacimi (University of Toulouse, France)
Thierry Gayraud (University of Toulouse, France)

Secure Shortened MSR Codes 1986

Natasia Paunkoska (UIST, Macedonia)
Ninoslav Marina (Princeton University, USA)
Weiler Finamore (Federal University of Juiz de Fora, Brazil)
Jovan Karamachoski (UIST, Macedonia)

FrA-4: Energy Efficient Systems (EEP Workshop)

Session Chair: Adel Ben Mnaouer, Canadian University of Dubai, UAE

Block-Sparse Compressive Sensing based Multi-User and Signal Detection for Generalized Spatial Modulation in NOMA 1992

Tengjiao Wang (Tsinghua University, P.R. China)
Sicong Liu (Tsinghua University, P.R. China)
Fang Yang (Tsinghua University, P.R. China)
Jintao Wang (Tsinghua University, P.R. China)
Jian Song (Tsinghua University, P.R. China)
Zhu Han (University of Houston, USA)

Constellation and Labeling Optimization for Bit-Interleaved Coded Spatial Modulation System 1998

Zhecheng An (Tsinghua University, P.R. China)
Jun Wang (Tsinghua University, P.R. China)
Jintao Wang (Tsinghua University, P.R. China)
Tengjiao Wang (Tsinghua University, P.R. China)
Jian Song (Tsinghua University, P.R. China)

Kalman Filter for Target Tracking using Coupled RSS and AoA Measurements 2004

David Vicente (DEE/FCT/UNL, Portugal)
Slavisa Tomic (DEE/FCT/UNL/Universidade Nova de Lisboa, Portugal)
Marko Beko (Universidade Lusófona/UNINOVA, Portugal)
Rui Dinis (DEE/FCT/UNL/Instituto de Telecomunicações, Portugal)
Milan Tuba (John Naisbitt University, Serbia)
Nebojsa Bacanin (John Naisbitt University, Serbia)

Energy-Efficient Multihop Schemes over Weibull-Fading Channels: Performance Analysis and Optimization 2009

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Mustapha Benjillali (INPT, Morocco)
Hatim Chergui (INPT, Morocco)

Graph Theory based Multicast Caching for Better Energy Saving in Dense Small Cell Networks 2015

Safa Mrad (ENIT, Tunisia)
Soumaya Hamouda (Sup'Com, Tunisia)
Houria Rezig (ENIT, Tunisia)

EAMP-AIDC - Energy-Aware Mac Protocol with Adaptive Individual Duty Cycle for EH-WSN 2021

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Farid Touati (Qatar University, Qatar)
Damiano Crescini (University of Brescia, Italy)

Performance Analysis of MIMO Cooperative Relays for Wireless Sensor Networks 2029

Ali Dziri (CNAM Paris, France)
Amira Ben Ammar (CNAM Paris, France)
Michel Terre (CNAM Paris, France)

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Joint Interference Suppression and Multiuser Detection for Three-Cell Multiple Relay Communications 2039

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Performance Analysis of Multi-Packet Reception Wireless Systems in Far-field Region 2045

António Furtado (Universidade Nova de Lisboa/Instituto de Telecomunicações, Portugal)
David Vicente (Universidade Nova de Lisboa, Portugal)
Rodolfo Oliveira (Universidade Nova de Lisboa/Instituto de Telecomunicações, Portugal)
Luis Bernardo (Universidade Nova de Lisboa/Instituto de Telecomunicações, Portugal)
Rui Dinis (Universidade Nova de Lisboa/Instituto de Telecomunicações, Portugal)

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Maciej Krasicki (Poznan University of Technology, Poland)

Degrees of Freedom in Cached MIMO Relay Networks with Multiple Base Stations 2056

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Amr El-Keyi (Carleton University, Canada)
Mohammed Nafie (Cairo University/Nile University, Egypt)

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Longzhuang He (Tsinghua University, P.R. China)
Jian Song (Tsinghua University, P.R. China)

Geometry Optimization for WiFi-based Indoor Passive Multistatic Radars 2068

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Syed Ali Hassan (National University of Sciences and Technology, Pakistan)

FrA-6: Secure Communications (Wireless Networking Symposium)

Session Chair: Sandra Sendra, Universidad de Granada, Spain

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Teng Yuan (Zhejiang University of Technology, P.R. China)
Yi Gong (Southern University of Science and Technology, P.R. China)
Weidang Lu (Zhejiang University of Technology, P.R. China)
Jingyu Hua (Zhejiang University of Technology, P.R. China)

Game-based Secure Sensing for the CRN 2079

Jihen Bennaceur (University of Manouba, Tunisia)
Hanen Idoudi (University of Manouba, Tunisia)
Leila Azouz Saidane (University of Manouba, Tunisia)

A New Iterative Phase Correction Algorithm in Conformal Antenna Array Designing 2085

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Yongkui Ma (Harbin Institute of Technology, P.R. China)
Honglin Zhao (Harbin Institute of Technology, P.R. China)
Ruoyu Zhang (Harbin Institute of Technology, P.R. China)

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Noureddine Boudriga (University of Carthage, Tunisia)

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Session Chair: Oscar Alvear, Universitat Politècnica de València, Spain

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