كلية العلوم و التقنيات فاس
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Faculté des Sciences et Techniques de Fès

جامعة سيدي محمد بن عبد الله
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Université Sidi Mohamed Ben Abdellah

The Global IEEE 5G-IoT Summit

IEEE 5G SUMMIT

IEEE Internet of Things

October 31, 2019, Fez, Morocco

Conferences Center - FST Fez

Colocated with :

WINCOM CONFERENCE

International Conference on Wireless Networks and Mobile Communications

SUMMIT PROGRAM

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About IEEE 5G-IoT Summit

The Internet of Thing (IoT) refers to the connection of devices (other than typical fare such as computers and smartphones). The number of connected devices will reach a staggering about 50 billion in 2020. The job market for the internet of thing is following this trend and is expected to reach about 5 million in the next few years. At the same time, the incredible variety of available software and hardware currently on the market and the very fast pace of further development makes it quite challenging to search and teaching this topic.

The 5G-IoT Summit is an international conference created to attract and present the latest research findings on the fifth generation of mobile communication systems and the Internet of Things. It is approved by the IEEE and intends to select the best work through a systematic peer review process.

This 5G-IoT Summit focuses on discovering and explaining, based on the recent research and experiments, the architectures & protocols for efficient interconnection of things, IoT infrastructure deployment, IoT applications, IoT services (real-time) and the standard development. This meeting also consists of exploring and elucidating all facets of the next generation of 5G technology, business and societal gaps and challenges between the current 3G-4G-LTE access-only Internet models and the proper vision of 5G, evolutionary or revolutionary, to go beyond just access by embracing and facilitating the upfront integration of all new technologies (IOT, SDN/NFV, Cloud Computing, ..) to be user-transparent, app-oriented, service-ready, ubiquitous and lowest cost.

The international experts on 5G and IoT have been invited and attracted to share their state-of-the-art knowledge with the emerging IoT and 5G community in Morocco.

IEEE 5G-IoT Summit Organizing Committee

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Global IEEE 5G-IoT Summit Program

09H00-09H15	**OPENING CEREMONY OF 5G-IOT SUMMIT**	
09H15-09H40	**PROF. JALEL BEN-OTHMAN, UNIVERSITY OF PARIS 13, PARIS, FRANCE** Prof. ben-othman received his b.sc. and m.sc. degrees both in computer science from the university of pierre et marie curie, (paris 6) france in 1992, and 1994 respectively. he received his phd degree from the university of versailles, france, in 1998. he is currently full professor at the university of paris 13 since 2011 and member of l2s lab at centralesupélec. dr. ben-othman's research interests are in the area of wireless ad hoc and sensor networks, vanets, iot, performance evaluation and security in wireless networks in general. he was the recipient of the ieee comsoc communication software technical committee recognition award in 2016, the ieee computer society meritorious service award in 2016, and he is a golden core member of ieee computer society. he is currently in steering committee of ieee transaction on mobile computing (ieee tmc), an editorial board member of several journals (ieee comml, jcn, ijcs…). he has also served as tpc co-chair for ieee globecom and icc conferences and other conferences as (iwcmc, vtc'14, comcomap, icnc, wcsp, q2swinet, p2mnet, wln,....). he is the chair of the ieee ad hoc and sensor networks technical committee since january 2016, he was previously the vice chair and secretary for this committee. he has been appointed as ieee comsoc distinguished lecturer since 2015 where he did several tours all around the world. he is member of ieee technical services board since 2016.	
09H40-10H15	**PROF. SOFIÈNE AFFES, EMT CENTRE, INRS, DIRECTOR OF PERWADE, MONTRÉAL, CANADA** Sofiene Affes received the Engineering Diploma in Telecom and the Ph.D. Degree (Hons.) in Signal Processing from Telecom ParisTech, Paris, France, in 1992 and 1995, respectively. He was Research Associate with INRS, Montreal, QC, Canada, until 1997, Assistant Professor until 2000, and Associate Professor until 2009. He is currently Full Professor at INRS and Director of PERWADE, a unique M$4 research-training program on wireless in Canada involving 27 academic and industrial partners from 8 universities and 10 industrial organizations. He has been twice the recipient of a Discovery Accelerator Supplement Award from NSERC, from 2008 to 2011 and from 2013 to 2016. From 2003 to 2013, he was Canada Research Chair in Wireless Communications. Since October 2017, he holds a Cyrille-Duquet Research Chair in Telecommunications. In 2008 and 2015, he received the VTC and ICUWB Chair Recognition Award and Certificate from IEEE VTS and MTT-S, respectively, for exemplary contributions as General Co-Chair to the success of both conferences held at their Fall 2006 and 2015 editions in Montreal. He recently served as General Chair of IEEE PIMRC 2017 also held in Montreal. His team received Best Paper Awards at IEEE Globecom 2007, IEEE ICASSP 2008, and IEEE VTC 2010-Fall. He currently acts or previously acted as an Associate Editor for three IEEE Transactions on Communications, Signal Processing, and Wireless Communications, for the Wiley Journal on Wireless Communications & Mobile Computing, and for MDPI Sensors Journal. His current personal R&D project is: Enabling Radio Access Strategies for Pervasive and Smart Applications of Wireless in the New Digital Economy.	
10H15-10H45	**COFFEE BREAK**	

10H45-11H20	**PROF. MOHAMMAD PATWARY, SCHOOL OF COMPUTING AND DIGITAL TECHNOLOGY, BIRMINGHAM CITY UNIVERSITY, UK** Mohammad Patwary received his BEng (Hons) in Electrical and Electronic Engineering in 1998 from the Chittagong University of Engineering and Technology in Bangladesh, and in 2005 a Ph.D. in Telecommunication Engineering from the University of New South Wales in Sydney, Australia. He was with the General Electric Company in Bangladesh from 1998 to 2000 and then worked as an R&D Engineer with Southern-Poro Communications in Sydney from 2001 to 2002. He worked as a lecturer at the University of New South Wales from 2005 to 2006, and then as senior lecturer at Staffordshire University in the UK from 2006 to 2010. Mohammad was a Professor of Wireless Systems and Digital Productivity and the Chair for the Centre of Excellence on Digital Productivity with Connected Services (DiPConS) at Staffordshire University until 2016. He now leads both the Intelligent Systems and Networks Research groups in the School of Computing and Digital Technology as a Professor of Telecommunication Networks and Digital Productivity and a Head of Research at the Centre for Cloud Computing (CCC) at Birmingham City University. Mohammad has published more than 100 technical papers in his areas of expertise. He has been a visiting professor at Prince Mohammad bin Fahd University in Saudi Arabia and the University of Suffolk, UK. He is a Senior Member of the IEEE, a Fellow of IET and a chartered engineer of the Engineering Council UK.	
11H20-11H55	**PROF. IZZAT DARWAZEH, DEPARTMENT OF ELECTRONIC & ELECTRICAL ENGINEERING UNIVERSITY COLLEGE, LONDON, UK** Izzat Darwazeh received a graduate degree in Electrical Engineering from the University of Jordan, Amman, in 1984 followed by M.Sc. and Ph.D. degrees from the University of Manchester, U.K., in 1986 and 1991, respectively. He currently holds the University of London Chair of Communications Engineering and leads the 70-strong Communications and Information Systems Group in the Department of Electronic and Electrical Engineering at University College London. He has authored or coauthored more than 250 book chapters and papers in the areas of optical and wireless communications and monolithic microwave integrated circuits and high-speed/frequency circuits. He coedited Analogue Optical Fibre Communications (IEE, 1995) and was a coeditor of the 2008 Elsevier-Newness book on electrical engineering. He has also co-authored two books entitled, 'On Linear Circuit Analysis and Modelling' (Elsevier, 2005) and, 'Microwave Active Circuit Analysis and Design' (Academic Press, 2015). He currently teaches mobile and wireless communications and circuit design, and his research activities include ultrahigh-speed microwave circuits and wireless and optical communication systems. In 2003, he proposed (with M. Rodrigues) the Spectrally Efficient Frequency-Division Multiplexing (SEFDM) concept and has been working in this area since then. Professor Darwazeh acts as a consultant/advisor to various academic and industrial organisations and to commercial, governmental and legal bodies in the UK and overseas. Prof. Darwazeh is a Chartered Engineer, a Fellow of the IET, and a Fellow of the Institute of Telecommunications Professionals (FITP). His research interests include: Wireless communication systems (5G and beyond), Spectrally efficient systems and new signal formats for wireless and optical communications, Visible Light Communication (VLC) circuits and systems, Multi-Gbit/s MIC, MMIC and OEIC circuits for optical and mobile communications, Distributed amplifier structures for 100 GHz, Wireless systems Quality of Service (QoS) modelling and optimisation.	
11H55-14H00	**LUNCH BREAK**	
14H00-15H00	**IOT PROJECT STUDENT DEMONSTRATION**	
15H00-16H00	**PANEL DISCUSSION**	
16H00-16H30	**CLOSING CEREMONY**	

Competition on IoT Innovation Challenge
Smart systems

Smart Power monitor	P 1

S.I.C.o.M / Electrical engineering department, FST, Fez

Mohammed BASSOU, Meryem EZZAMRANY, Mounir ABRAIM

Driver drowsiness detection	P 2

Master Intelligent System and Energy FST, Fez

Chaymae EL MECHAL, Abderrazaaqe TAIBI

Autonomous Vehicule Road Intersection	P 3

S.I.C.o.M / Electrical engineering department, FST, Fez

Yahya MRABET KANDRI, Abdelilah HAFID, Mohamed Nadir BOUMAIZ

Development of a smart home automation system	P 4

Master Internet of Things and Mobile Services ENSIAS-Rabat

Khadija FIKRINE, Oumaima ALAOUI ISMAILI, Loubna IKADANE, Oumaima MOUFID, Youssef STELATE

Get a Parking place (smart parking)	P 5

S.I.C.o.M / Electrical engineering department, FST, Fez

Hiba LAHMAR, Hafsa CHEDDADI, Fatima Zahrae NHARI

Competition on IoT Innovation Challenge
Smart systems

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Université Sidi Mohamed Ben Abdellah

COMPETITION ON IOT INNOVATION CHALLENGE SMART SYSTEMS

CO-LOCATED WITH

WINCOM CONFERENCE

THE 7TH INTERNATIONAL CONFERENCE ON WIRELESS NETWORKS AND MOBILE COMMUNICATIONS AND THE GLOBAL IEEE 5G-IOT SUMMIT

Contact : Prof. F. Mrabti/Prof. M. Lahbabi/Prof. H. Ghennioui
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Conferences center

Faculty of Sciences and Technologies – Fez, Morocco
October 31, 2019

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