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| 08.00 –09.00 | Registration |
| 08.45 – 09.00 | ***Opening remarks*** - General Chairs – Victor Sucasas, Georgios Mantas, Saud Althunibat |
| 09.00 – 10.00 | ***Keynote talk***Prof. Constantinos B. Papadias *– Spectrum Sharing and Interference Handling Techniques for Multi-Antenna Wireless Networks*  |
| 10.00 – 11.00 | ***Keynote talk***  Prof. Raed Mesleh - ***Space Modulation Techniques: Promising Technologies for Future Wireless Systems***  |
| 11.00 – 11.30 | Coffee Break |
| 11.30 – 13.00 | ***Session 1 - Advanced Techniques for IoT and WSNs****Chair – Jonathan Rodriguez** **Evaluation of a Robust Fault-Tolerant Mechanism for Resilient IoT Infrastructures**

*J.M. Lozano Dominguez (University of Huelva), Tomas Mateo Sanguino (University of Huelva), Manuel Redondo Gonzalez (University of Huelva)** **Indoor Positioning Using adaptive KNN algorithm based Fingerprint Technique**

*Mahmood F. Mosleh (Middle Technical University), Raed Abd-Alhameed (University of Bradford), Osama Quasim (Middle Technical University)** **Modeling of Sensor Clouds Under the Sensing as a Service Paradigm**

*Joel David Guerreiro (Universidade do Algarve), Luis Pisco (Universidade do Algarve), Noélia Correia (Universidade do Algarve)** **Resource Redesign in RELOAD/CoAP Overlays for the Federation of Sensor Networks**

*Luis Manuel P. Rodrigues (Universidade do Algarve), Joel Guerreiro (Universidade do Algarve), Noélia Correia (Universidade do Algarve)* |
| 13.00 – 14:15 | Lunch |
| 14:15 – 15.45 | ***Session 2 – SDN and Network Virtualization****Chair – Noélia Correia** **A practical approach for small cell sharing using a time-multiplexing scheme**

David Candal Ventura (Universidade de Vigo), *Felipe Gil-Castiñeira* (Universidade de Vigo)*, Jorge Muñoz Castañer* (Universidade de Vigo)*, Francisco Gonzalez-Castaño* (Universidade de Vigo)* **On Controllers' Utilization in Software-defined Networking by Switch Migration**

*Faroq Al-Tam (Universidade do Algarve), Mohammad Ashrafi (Universidade do Algarve), Noélia Correia (Universidade do Algarve)** **ONAP Architectures for Network Function Virtualization**

*Abel Fernandez-Nandin (Universidade de Vigo), Felipe Gil-Castiñeira (Universidade de Vigo), Francisco Gonzalez Castaño (Universidade de Vigo)** **A Scalable and Reliable Model for the Placement of Controllers in SDN Networks**

*Mohammad Asharafi (Universidade do Algarve), Faroq Al-Tam (Universidade do Algarve), Noélia Correia (Universidade do Algarve)*  |
| 15.45 – 16.15 | Coffee Break |
| 16.15 – 18.15 | ***Session 3 – eHealth and Telemedicine Mobile Applications****Chair – Georgios Mantas** **Analysis of protocols handling ECG vital signs for structuring personalized ubiquitous telemedicine services**

*Maria Papaioannou (University of Patras), George Mandellos (University of Patras), Theodor Panagiotakopoulos (University of Patras), Dimitrios Lymberooulos (University of Patras)** **Software-Defined Networking for Ubiquitous Healthcare Service Delivery**

*Foteini Andriopoulou (University of Patras), Konstantinos Birkos (University of Patras), Georgios Mantas (University of Greenwich), Dimitros Lymberopoulos (University of Patras)** **Profile Management System in Ubiquitous Healthcare Cloud Computing Environment**

*Evy Karavatselou (University of Patras), Maria-Anna Fengou (University of Patras), Georgios Mantas (University of Greenwich), Dimitrios Lymberopoulos (University of Patras)** **A telemedicine application for remote diagnosis and assessment of mood disorders**

Georgia Konstantopoulou (University of Patras), *Theodor Panagiotakopoulos (University of Patras), George Mandellos (University of Patras), Konstantinos Asimakopoulos (University of Patras), Dimitrios Lymberopoulos (University of Patras)** **e-SCP-ECG+v2 Protocol: Expanding the e-SCP-ECG+ Protocol**

*George Mandellos (University of Patras), Maria Papaioannou (University of Patras), Theodor Panagiotakopoulos (University of Patras), Dimitrios Lymberopoulos (University of Patras)*  | ***Session 4 – Security and Privacy Preservation****Chair – Victor Sucasas** **Towards an Autonomous Host-based Intrusion Detection System for Android Mobile Devices**

José Carlos Ribeiro (Instituto de Telecomunicações), Georgios Mantas (Instituto de Telecomunicações), Firooz Saghezchi (Instituto de Telecomunicações), Jonathan Rodriguez (Instituto de Telecomunicações), Raed Abd-Alhameed (University of Bradford)* **Securing Osmotic Computing of Cloud of Things through Semi-public Blockchain**

*Saqib Rasool (Information Technology University, Lahore, Pakistan)** **Machine Learning to Automate Network Segregation for Enhanced Security in Industry 4.0**

*Firooz B. Saghezchi (Universidade de Aveiro), Georgios Mantas (Instituto de Telecomunicações), Alireza Esfahani (Instituto de Telecomunicações), Hassan Alizadeh (Universidade de Aveiro), Joaquim Bastos (Instituto de Telecomunicações), Jonathan Rodriguez (Universidade de Aveiro)** **Security Framework for the Semiconductor Supply Chain Environment**

*Alireza Esfahani (Instituto de Telecomunicações), Georgios Mantas (Instituto de Telecomunicações), Mariana Barcelos (Instituto de Telecomunicações), Firooz B. Saghezchi (Universidade de Aveiro), Victor Sucasas (Universidade de Aveiro), Joaquim Bastos (Instituto de Telecomunicações), Jonathan Rodriguez (Instituto de Telecomunicações)** ***A Study on Data Dissemination Techniques in Heterogeneous Cellular Networks***

*Roberto Torre (TU Dresden), Frank Fitzek (TU Dresden)* |
|  | Social Event – 20:00 |

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| **20th September 2010** |
| 08.00 –09.00 | Registration |
| 09:00 – 10.00 | ***Keynote talk***Prof. Frank Fitzek ***–*** *Cloud Networking for 5G and Beyond* |
| 10.00 – 11.00 | ***Tutorial (SECRET Workshop)*** Prof. Felipe Gil-Castiñeira ***– From LTE to 5G: An introduction*** |
| 11.00 – 11.20 | Coffee Break |
| 11.20 – 13.00 | ***Session 5 – Communication Reliability and Protocols****Chair – Felipe Gil-Castiñeira** **CFDAMA-IS: MAC Protocol for Underwater Acoustic Sensor Networks**

*Wael Gorma (University of York)** **Location-aware MAC Scheduling in Industrial-like Environment**

*Maurizio Rea (IMDEA Networks Institute), Domenico Garlisi (University of Palermo), Hector Cordobes (IMDEA Networks Institute), Domenico Giustiniano (IMDEA Networks Institute)** **Distributed Fault-Tolerant Backup-Placement in Overloaded Wireless Sensor Networks**

*Gal Oren (Nuclear Research Center - Negev), Leonid Bareboim (The Open University of Israel), Haren Levin (The Open University of Israel)** **Industry 4.0 and Autonomous Transportation: The Impacts on Supply Chain Management**

*Satya Shah (University of Greenwich), Ilias Logiotatopoulos (University of Greenwich)** **An Overview of Digitalisation in Conventional Supply Chain Management with Industry 4.0**

*Sarath Menon (University of Greenwich), Satya Shah (University of Greenwich), Alec Courtroubis (University of Greenwich)* | ***Workshop SECRET 1****Chair – Ayman Radwan** ***Key Management for Secure Network Coding-enabled Mobile Small Cells***

*Marcus de Ree (Instituto de Telecomunicações), Georgios Mantas (Instituto de Telecomunicações), Ayman Radwan (Instituto de Telecomunicações), Jonathan Rodriguez (Instituto de Telecomunicações), Ifiok Otung (University of South Wales)** ***Security Threats in Network Coding-enabled Mobile Small Cells***

*Reza Parsamehr (Instituto de Telecomunicações), Georgios Mantas (Instituto de Telecomunicações), Ayman Radwan (Instituto de Telecomunicações), Jonathan Rodriguez (Instituto de Telecomunicações), José-Fernán Martinez (UPM)** ***Secure Network Coding for SDN-based Mobile Small Cells***

*Vipindev Adat (University of Patras), Ilias Politis (University of Patras), Christos Tselios (University of Patras), Stavros kotsopoulos (University of Patras)** ***Network-Coded Multigeneration Protocols in Heterogeneous Cellular Networks***

*Roberto Torre (TU Dresden), Sreekrishna Pandi (TU Dresden), Frank Fitzek (TU Dresden** ***Multi-tenant Isolation in Software Defined Networks***

*Sarah Irum (Acticom), Patrick Luedke (Acticom), Klaus Warnke (Acticom), Gerrit Schulte (Acticom)* |
| 13.00 – 14.15 | Lunch – Best Paper Award |
| 14.15 – 16.15 | ***Session 3 – Spatial Modulation Techniques****Chair – Saud Althunibat** **Hybrid Spatial Modulation Scheme with Arbitrary Number of Transmit Antennas**

*Saud Althunibat (Al-Hussein Bin Talal University), Mohamad Al-Hasanat (Al-Hussein Bin Talal University), Abdullah Al-Hasanat (Al-Hussein Bin Talal University)** **Spatial Modulation or Spatial Multiplexing for mmWave Communications?**

*Salma Elkawafi (University of Benghazi), Abdelhamid Younis, Raed Mesleh (German Jordanian University), Abdulla Abouda (German Jordanian University), Ahmed Elbarsha (University of Benghazi), Mohammed lmusrati (University of Vaasa)** **Hardware Implementation of Generalized Space Modulation Techniques Using Simulink RF Blockset**

Raed Mesleh (German Jordanian University), Omar Hiari (German Jordanian University), Faris Shahin (German Jordanian University), Samer Alshaer (German Jordanian University)* **A Half-Full Transmit-Diversity Spatial Modulation Scheme**

*Sakher Abu Tayeh (Al-Hussein Bin Talal University), Mohammad Alsalahat (Al-Hussein Bin Talal University), Ibrahim Kaddumi (Al-Hussein Bin Talal University), Yahya Alqannas (Al-Hussein Bin Talal University), Saud Althunibat (Al-Hussein Bin Talal University), Raed Mesleh (German Jordanian University)** **Hardware Implementation of Space Shift Keying on a Xilinx Zynq Platform**

*Raed Mesleh (German Jordanian University), Abdullah Al-Khatib (German Jordanian University), Omar Hiari (German Jordanian University)* | ***Workshop SECRET 2****Chair – Ayman Radwan** ***Perspectives for 5G Network Sharing for Mobile Small Cells***

*Fatma Marzouk (Proef), Rui Alheiro (Proef), Jonathan Rodriguez (Instituto de Telecomunicações), Ayman Radwan (Instituto de Telecomunicações)** ***Wireless channel characterisation over simulations for an indoors environment at 2.4GHz***

*Tafseer Akhtar (University of Patras), Ilias Politis (University of Patras), Stavros Kotsopoulos (University of Patras)** ***A Simulation Study on LTE Handover and the Impact of Cell Size***

*Muhammad Tayyab (Huawei), George Koudouridis (Huawei), Xavier Gelabert (Huawei)** ***On the Performance of SLNR Beamformer in Multi-user MIMO Systems***

*Raed Abd-Alhameed (University of Bradford), Ahmed Abdulkhaleq (SARAS), Yasir I. Al-Yasir (University of Bradford), Naser Ojaroudi Parchin (University of Bradford), Ashwain Rayit (SARAS), Issa Elfergani (Instituto de Telecomunicações), Jonathan Rodriguez (Instituto de Telecomunicações), James Noras (University of Bradford), Khalid Hammed (University of Bradford)** ***A More Efficient AOA Method for 2D and 3D Direction Estimation with Arbitrary Antenna Array Geometry***

*A. G. Mohammed (University of Bradford), Abdulkareim Zweid (University College), Nabeel Abduljabbar (University of Bradford), James Noras (University of Bradford), Rameez Asif (University of Bradford), Issa Elfergani (Instituto de Telecomunicações), Raed Abd-Alhameed (University of Bradford), Jonathan Rodriguez (Instituto de Telecomunicações)* |
| 16.15 – 16.45 | Coffee Break |
| 16.45 – 18.45 | ***Session 7 – Hardware Implementation and Antenna Design*** *Chair – Issa Elfergani** **MoM-GEC Analysis of Fraunhofer-region Characteristics over Rectangular Aperture**

*Imen Hadhraui (University of Tunis El Manar), Taha Ben Salah (University of Sousse, Tunisia), Taoufik Aguili (University of Tunis El Manar)** **Fast Statistical Modelling of Temperature Variation on 28nm FDSOI Technology**

*Abdelgader M. Abdalla (Instituto e Telecomunicações), Isiaka Alimi (Instituto e Telecomunicações), Manuel Gonzalez (Evotel), Issa Elfergani Instituto e Telecomunicações, Jonathan Rodriguez (Instituto e Telecomunicações)** **Design of Compact Printed Monopole Antenna with Enhanced Bandwidth and Controllable Filtering Notch for UWB Applications**

*Issa Elfegrani (Instituto de Telecomunicações), Mina Alrawi (Instituto de Telecomunicações), Jonathan Rodriguez (Instituto de Telecomunicações), Raed Abd-Alhameed (University of Bradford),* * **On the Performance of Acousto Optical Modulators–Free Space Optical Wireless Communication Systems Over Negative Exponential Turbulent Channel**

*Raed Mesleh (German Jordanian University)** **Implementation of Turbo code Based Xilinx System Generator**

*Mahmood Mosleh (Electrical Technical Engineering College)* | ***Workshop SECRET 3****Chair – Ayman Radwan** ***A New Polarization-Reconfigurable Antenna for 5G Wireless Communications***

*Yasir I. Al-Yasir (University of Bradford), Naser Ojaroudi Parchin (University of Bradford), Issa Elfergani (Instituto de Telecomunicações), Raed Abd-Alhameed (University of Bradford), James Noras (University of Bradford), Jonathan Rodriguez (Instituto de Telecomunicações), Amar Al-jzari (Basra Oil Training Institute), Waleed Hammed (Basra Oil Training Institute)** ***Frequency Reconfigurable Antenna Array for MM-Wave 5G Mobile Handsets***

*Naser O. Pachin (University of Bradford), Yasir Al-Yasir (University of Bradford), Ahmed Abdulkhaleq (SARAS), Issa Elfergani (Instituto de Telecomunicações), Ashwain Rayit (SARAS), James Noras (University of Bradford), Jonathan Rodriguez (Instituto de Telecomunicações), Raed Abd-Alhameed (University of Bradford)** ***A 70-W Asymmetrical Doherty Power Amplifier for 5G Base Stations***

*Ahmed M. Abdulkhaleq (SARAS), Yasir I. Al-Yasir (University of Bradford), Naser Ojaroudi Parchin (University of Bradford), Jack Brunning (SARAS), Neil McEwan (SARAS), Ashwain Rayit (SARAS), Raed Abd-Alhameed (University of Bradford), James Noras (c), Nabeel Abduljabbar (University of Bradford)** **Design of Asymmetrical Doherty GaN HEMT Power Amplifiers for 4G Applications**

Maryam Sajedin (Instituto de Telecomunicações), Issa Elfergani(Instituto de Telecomunicações), Abubakar Sadiq Hussaini (Instituto de Telecomunicações), Jonathan Rodriguez (Instituto de Telecomunicações), Raed Abd-Alhameed (University of Bradford), Ayman Radwan (Instituto de Telecomunicações).* ***Improvement of Indoor Receive Signal Code Power (RSCP) and Signal to Noise Interference Ratio (Ec/Io) and QoS Evaluation in Operational 3G Network Using Distributed Antenna System (DAS)***

*Haru Alhassan (Nigerian Communications Commission), Raed Abd-Alhameed (University of Bradford), Umar G Danbatta (Nigerian Communications Commission), Chidi Digwu (Nigerian Communications Commission), Mohammad J Ngala (Heaton Education, Bradford)* |
| 18.45 – 19.00 | Closing Session |
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