# IEEE IWCMC 2019
## Technical Program at a Glance
### Tangier, Morocco, June 24<sup>th</sup> — 28<sup>th</sup>, 2019

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>ROOM</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td><strong>June 24, 2019</strong></td>
<td><strong>9:00-12:00</strong></td>
<td><strong>LYBIE</strong></td>
<td>T1: Distributed MIMO Radio Access Network: Architecture, Cooperative Transm., Channel Estimation, and Interference Coordination; <strong>T1 Speaker:</strong> F. Adachi, Tohoku University, Japan</td>
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<tr>
<td>(Monday)</td>
<td><strong>12:00-13:30</strong></td>
<td>LUNCH BREAK</td>
<td><strong>T2:</strong> Adversarial Machine Learning &amp; Cognitive Networks: Strategies for Attack &amp; Robust Defense; <strong>T2 Speaker:</strong> A. Al-Fuqaha (HBKU, Qatar) &amp; J. Qadir (ITU)—Punjab, Pakistan</td>
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<td><strong>14:00-17:00</strong></td>
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<td><strong>T3:</strong> Wireless Radio Access for 5G and Beyond; <strong>T3 Speaker:</strong> Huseyin Arslan, USF, USA</td>
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<td><strong>19:00-20:00</strong></td>
<td>WELCOME RECEPTION</td>
<td><strong>T4:</strong> The Two B's Emerging Technologies: Big Data and Blockchain; <strong>T4 Speaker:</strong> Nidal Nasser (Alfaisal University, KSA)</td>
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<tr>
<td><strong>TUTORIALS</strong></td>
<td><strong>8:30 - 9:00</strong></td>
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<td><strong>LYBIE</strong></td>
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<td><strong>9:00-10:00</strong></td>
<td>KEYNOTE 1:</td>
<td>Prof. Latif Ladid, University of Luxembourg, Luxembourg</td>
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<td></td>
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<td>TITLE: IPv6-based New Net Innovation for IoT and 5G</td>
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<td><strong>10:00-10:30</strong></td>
<td>Coffee Break</td>
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<td><strong>June 25, 2019</strong></td>
<td><strong>9:00-10:00</strong></td>
<td><strong>LYBIE</strong></td>
<td>KEYNOTE 2: Prof. Abdallah Shami, Western University, Canada</td>
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<td>(Tuesday)</td>
<td><strong>10:00-10:30</strong></td>
<td>Coffee Break</td>
<td>TITLE: Quality-Driven Next Generation Mobile Nets with Carrier-Grade Virtualized Platforms</td>
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<td><strong>June 26, 2019</strong></td>
<td><strong>9:00-10:00</strong></td>
<td><strong>LYBIE</strong></td>
<td>KEYNOTE 3: Prof. Magdy A. Bayoumi, University of Louisiana at Lafayette, USA</td>
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<td>(Wednesday)</td>
<td><strong>10:00-10:30</strong></td>
<td>Coffee Break</td>
<td>TITLE: IoT Security: Hype, Reality, and Challenges</td>
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<td>Organization Committee Evaluation Meeting</td>
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<td><strong>June 27, 2019</strong></td>
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<td><strong>LYBIE</strong></td>
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<td><strong>June 28, 2019</strong></td>
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- Local-Organizer:
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<table>
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<tr>
<th>Time</th>
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<tr>
<td>8:00 - 15:00</td>
<td>Registration</td>
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<tr>
<td>9:00 - 12:00</td>
<td><strong>Tutorial 1</strong>&lt;br&gt;<strong>Room:</strong> Maroc-1&lt;br&gt;- <strong>Speaker:</strong> Prof. Fumiyuki Adachi, Tohoku University, Japan&lt;br&gt;- <strong>Title:</strong> Distributed MIMO Radio Access Network: Architecture, Cooperative Transmission, Channel Estimation, and Interference Coordination&lt;br&gt;- <strong>Chair:</strong> Dr. Mohamed EL KAMILI, Sidi Mohammed Ben Abdellah, University-Fes, Morocco</td>
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<td>9:00 - 12:00</td>
<td><strong>Tutorial 2</strong>&lt;br&gt;<strong>Room:</strong> Marco-2&lt;br&gt;- <strong>Speakers:</strong> Prof. Ala Al-Fuqaha (HBKU, Qatar) and Prof. Junaid Qadir (ITU)—Punjab, Pakistan&lt;br&gt;- <strong>Title:</strong> Adversarial Machine Learning &amp; Cognitive Networks: Strategies for Attack &amp; Robust Defense&lt;br&gt;- <strong>Chair:</strong> Dr. Essaid Sabir, ENSEM, Casablanca, Morocco</td>
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<td>9:00 - 12:00</td>
<td><strong>5G SUMMIT</strong>&lt;br&gt;<strong>Room:</strong> Lybie&lt;br&gt;- Renowned Invited Speakers Present &amp; Discuss Different 5G Issues and Challenges&lt;br&gt;- <a href="http://iwcmc.org/2019/5-g-summit/">http://iwcmc.org/2019/5-g-summit/</a>&lt;br&gt;- <strong>Chair:</strong> Prof. Latif Ladid, University of Luxembourg, Luxembourg</td>
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<td>12:00 - 13:30</td>
<td><strong>LUNCH BREAK</strong></td>
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<td>14:00 - 17:00</td>
<td><strong>Tutorial 3</strong>&lt;br&gt;<strong>Room:</strong> Maroc-1&lt;br&gt;- <strong>Speaker:</strong> Prof. Huseyin Arslan, University of South Florida, USA&lt;br&gt;- <strong>Title:</strong> Wireless Radio Access for 5G and Beyond&lt;br&gt;- <strong>Chair:</strong> Dr. Abdellatif Kobbane, ENSIAS, Mohammed V University of Rabat, Morocco</td>
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<tr>
<td>14:00 - 17:00</td>
<td><strong>Tutorial 3</strong>&lt;br&gt;<strong>Room:</strong> Maroc-2&lt;br&gt;- <strong>Speaker:</strong> Prof. Nidal Nasser, Alfaisal University, KSA&lt;br&gt;- <strong>Title:</strong> The Two B's Emerging Technologies: Big Data and Blockchain&lt;br&gt;- <strong>Chair:</strong> Prof. Aiman Erbad, Qatar University, Qatar</td>
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<td>19:00 - 20:00</td>
<td><strong>WELCOME RECEPTION</strong></td>
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Tuesday, June 25th, 2019

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

Opening Session — (8:30 - 9:00)  
Room: Lybie

Speakers: Organizing Committee Members

KEYNOTE 1 — (9:00 - 10:00)  
Room: Lybie

- Speaker: Prof. Latif Ladid, University of Luxembourg, Luxembourg
- Title: IPv6-based New Net Innovation for IoT and 5G
- Chairs: Prof. Jalel Ben-Othman, University of Paris 13, France

Coffee Break — (10:00 - 10:30)

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

1570534295: ML EM Estimation of Fast Time-Varying OFDM-Type Channels, Souheib Ben Amor & Sofiene Affes (INRS-EMT, University of Quebec, Canada)

1570527917: A CMOS Transimpedance Amplifier With Ambient Light Rejection for Visible Light Communication in Intelligent Transport Systems, Moaaz Ahmed; Amine Bermak (Hamad Bin Khalifa University, Qatar)

1570531666: Mobility Traffic Model Based on Combination of Multiple Transportation Forms in the Smart City, Mohammed Bin Hariz; Dhaou Said; Hussein Mouftah (University of Ottawa, Canada)

1570527825: Dictionary Learning-Based Beamspace Channel Estimation in Millimeter-Wave Massive MIMO Systems with a Lens Antenna Array, Mahmoud Nazzal (TUBITAK, Turkey); Mehmet Ali Aygül (Istanbul Medipol University, Turkey); Ali Gorcin (Yildiz Technical University, Turkey); Huseyin Arslan (USF & Istanbul Medipol University, USA)

1570527806: Single Carrier Transmission for URLLC with Adaptive Radio Resource Utilization, Armed Tusha and Seda Doğan (Istanbul Medipol University, Turkey); Huseyin Arslan (University of South Florida, USA)

1570527265: An Event Prediction-based IP Multimedia Subsystem Service Exposure, Armielle Noulapeu Ngaffo, Walid El Ayeb, Tunisia); Zied Choukair (Supcom, Tunisia)

1570532275: A Distributed Predictive Road Traffic Management System in Urban VANETs, Ahmed Mejdoubi; H. Fouchal (U. of Reims Champagne-Ardenne, France); O. Zytoune (Ibn Tofail Univ., MO); M. Ouadou (Mohammed-V Univ., Morocco)

1570527938: Reputation based Intelligent Control Protocol, N. Bermad, S. Zemmoudj & M. Omar (Univ. of Bejaia, Algeria)

1570527895: Interference Management by Adaptive Beamforming Algorithm in Massive MIMO Networks, Hosni Manai; Larbi Ben Hadj Slama; Ridha Bouallegue (SupCom, Tunisia)

1570539573: A Novel Crowd-sourcing Inference Method, Jia Liu (Dalian University of Technology, P.R. China); William Tang (University of California, Irvine, USA); Yuanfang Chen (Hangzhou Dianzi University & Universite Pierre et Marie CURIE, P.R. China); Mingchu Li (School of Software, Dalian University of Technology, P.R. China)
<table>
<thead>
<tr>
<th>Session Title</th>
<th>TM-3: Room: Maroc-1 R1</th>
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<td><strong>Session Chair:</strong> Bo Rong (Communications Research Centre Canada)</td>
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**Keynote:** Prof. Michel Kadoch, Prof. Mohamed Cheriet, Dr. Bo Rong; **Title:** New Trends of Next Generation IoT Networks

1570508186: Bayesian Model Updating Method Based Android Malware Detection for IoT Services, F. Wu; L. Xiao; J. Zhu
1570519004: Traffic Analysis of LEO Satellite Internet of Things, Jin Cong; He Xin; Gengxin Zhang
1570519025: A Multi-objective Service Function Chain Mapping Mechanism for IoT Networks, Cong Han; Siya Xu; ShaoYong Guo; Xiong Ao; Peng Yu; Qiu Xue-song; Dong Guo; Kunya Guo

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<th>Session Title</th>
<th>TM-4: Room: Maroc-2</th>
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<td><strong>Session Chair:</strong> Mohamed El Kamili (University Sidi Mohammed Ben Abdellah, Morocco)</td>
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1570519059: Generative Adversarial Networks For Launching and Thwarting Adversarial Attacks on Network Intrusion Detection Systems; Muhammad Usama and Muhammad Asim (Information Technology University, Pakistan); Siddique Latif (University of Southern Queensland, Australia); Junaid Qadir (Information Technology University (ITU), Punjab, Lahore, Pakistan); Ala Al-Fuqaha (Hamad Bin Khalifa University, Qatar)
1570526999: Black-box Adversarial Machine Learning Attack on Network Traffic Classification; Muhammad Usama; Adnan Qayyum; Junaid Qadir (Information Technology University (ITU), Punjab, Lahore, Pakistan); Ala Al-Fuqaha (HBKU, Qatar)
1570527908: Using Advanced detection and prevention technique to mitigate threats in SDN architecture; Sebbar Anass (UIR - UMS, Morocco); Karim Zkik (International University of Rabat & UIR, Morocco); Youssef Baddi (UCD, Morocco); Mohammed Boulmalf (UIR, Morocco); Mohamed Dafir Ech-Cherif El Kettani (Mohammed V University in Rabat, Morocco)
1570518705: A secret classified label control model based on the identity-based cryptography; Zhijun Wu, Shan Tian; Wen Li; Meng Yue and Jian Wang (Civil Aviation University of China, P.R. China)
1570527482: A Bilinear Pairing Based Secure Data Aggregation Scheme for WSNs; Vimal Kumar (U. of Waikato, NZ)
1570527852: Hierarchical anomaly based intrusion detection and localization in IoT; Aymen Yahyaoui (Ecole Polytechnique de Tunis, Tunisia); Takoua Abdellatif (Carthage U., Tunisia); Attia Rabah (Ecole nationale d'ingénieur de Tunis, Tunisia)
1570531035: CASK: Conditional Authentication and Session Key Establishment In Fog-assisted Social IoT Network; Arij Ben Amor (U. of Tunis-Elmanar, Tunisia); Mohamed Abd (U. of Gabes, Tunisia); Aref Meddeb (U. of Sousse, Tunisia)

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<th>Session Title</th>
<th>TM-5: Room: Maroc-2 R2</th>
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<td><strong>Session Chair:</strong> Rui Xin (Tsinghua University, P.R. China)</td>
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1570513040: An Enhanced Random Access Scheme: Multi-Power Contention Resolution Diversity Slotted Aloha; Yu Liang Zuyao Ni, Linling Kuang (Tsinghua University, P.R. China)
1570518461: Joint Active User and Data Detection in Uplink Grant-Free NOMA by Message-Passing Algorithm; Rui Xin, Zuyao Ni, Linling Kuang, Haoge Jia, Purui Wang (Tsinghua University, P.R. China)
1570526111: Research on LoRa Adaptability in the LEO Satellites Internet of Things; Ting Wei Wu (Nanjing University of Posts and Telecommunications, P.R. China)
1570527527: Analysis of co-channel interference in Low-orbit Satellite Internet of Things; Xu Da Jian (Nanjing University of Posts and Telecommunications, P.R. China)
1570527630: Physical Layer Representation in LEO Satellite with a Hybrid Multi-Beamforming; Andrey Ivanov, Maria Stoliarenko, Andrey Viktorovich Savinov, Serafim Novichkov (Skolkovo Institute of Science and Technology, Russia)
1570535907: Communication Experiments and Analysis Based on the Plasma Sheath Channel Simulation System; Yuwei Hu, Ning Ge (Tsinghua University, P.R. China)
1570529992: A New UWB-MIMO Multi-Antennas With High Isolation For Satellite Communications; Chafai Abdelhamid, Manwa Daghari (ENIG, Tunisia); Hedi Sakli (Nat. Eng. School of Tunis, Tunisia) Chafaa Hamrouni (Un. of Sfax, Tunisia)
1570516431: Three-Dimensional Visible Light Positioning Using Regression Neural Network; Peixi Liu, Tianqi Mao, Ke Ma, Jiaxuan Chen and Zhaocheng Wang (Tsinghua University, P.R. China)

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<th>Session Title</th>
<th>TM-6: Room: 17-Fevrier</th>
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<td><strong>Session Chair:</strong> Mohammed Boulmalf (UIR, Morocco)</td>
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1570527658: Clustering in WSNs based on Artificial Fish Swarming Algorithm, Djamila Mechta (Université Ferhat ABBAS de Sétif, Algeria); Saad Harous (UAU University, UAE)
1570518969: Tow Tier Data Reduction Technique based Data Compression and MDL Principle for Reducing Data Transmission in IoT Sensors, Ali Kadhum M. Al-Qurabat (University of Babylon, Iraq); Chady Abou Jaoude (Antonine University & TICKET Lab, Lebanon); Ali Kadhum Idrees (University of Babylon, Iraq)
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1570526874: Principal Component Analysis based Clustering Approach for WSN with Locally Uniformly Correlated Data, Zakia Jellali; Leila Najjar; Sofiane Cherif (SupCom, Tunisia)

1570524418: A Two-Tier Clustering based Downlink Resource Allocation Algorithm for Small Cell Networks, Jun Zheng and Donghong Jia (Southeast University, P.R. China); Baoxian Zhang (Univ. of Chinese Academy of Sciences, P.R. China)

1570518545: New Sensing Matrices Based On Orthogonal Hadamard Matrices For Compressive Sensing, Hamid Nouasria and Mohamed Et-tolba (National Institute of Posts and Telecommunications, Morocco)

1570518820: Instantaneous Throughput Maximization for Cognitive Radio Networks, Ghassan Alnwaimi (King Abdulaziz University, SA); Hatem Boujemaa (SupCom, Tunisia)


1570527548: A Task Allocation Algorithm for Profit Maximization in NFC-RAN, Yang Cai and Xiaofeng Lu (Xidian University, P.R. China); Yuan-sheng Luo (Changsha University of Science and Technology, P.R. China); Kezhi Wang (Northumbria University, UK); Dongwei Chen (University of Electronic Science and Technology of China); Kun Yang (University of Essex, UK)

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**Session Title:** Emerging Technologies and Applications (Wireless Nets Symp.)

**Session Chair:** Soumaya Cherkaoui (Université de Sherbrooke, Canada)

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1570521100: Design and Evaluation of Self-Assembled Actin-Based Nano-Communication, Abderrahmane Oussama Dambri and Soumaya Cherkaoui (Université de Sherbrooke, Canada); Biswadeep Chakraborty (Jadavpur University, India)

1570527926: Multi-user detection in optical wireless communication, Federica Aveta; Hazem Refai (University of Oklahoma, USA); Peter LoPresti (Tulsa University, USA)

1570528797: Energy Modeling of Wireless Body Area Networks with On-Body Communication Channel Characterization, Amina Nahali; Abdelaziz Hamdi (University of Sousse, Tunisia); Matthieu Gautier (Univ Rennes, CNRS, IRISA, France); Antoine Courtay (University of Rennes 1, France); Rafik Braham (University of Sousse, Tunisia)

1570530998: Important Complexity Reduction of Random Forest in Multi-Classification Problem, Kawther Hassan; Aiman Erbad and Ridha Hamila (Qatar University, Qatar)

1570519087: Research on Indoor Location Algorithm Based on K Value Selection, Guanghua Zhang (Harbin Engineering University); Xue Sun (Northeast Petroleum University, P.R. China); Tao Jiang (Harbin Engineering University, P.R. China); Weidang Lu (Zhejiang University of Technology, P.R. China)

1570525882: A New Weighted Indoor Positioning Algorithm Based On the Physical Distance and Clustering, Hao Qin, Shuo Shi and Xiangyu Tong (Harbin Institute of Technology, P.R. China)

1570527078: Accurate Blind Synchronization for Free Space Optical Communication System using 2-PPM Modulation, Med Maalej; Hichem Besbes (SupCom, University of Carthage, Tunisia)

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LUNCH BREAK 12:30 – 13:30

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**Session Title:** Fog/Edge/Cloud IoT (5G IoT Symposium)

**Session Chair:** Qiu Xue-song (Beijing University of Posts and Telecommunications, China)

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1570518994: Design of a service caching and task offloading mechanism in smart grid edge network, M. Li; L. Rui; X. Qiu

1570519122: Energy-efficient Mobile Edge Computation Offloading with Multiple Base Station, P. Zhang; J. Yang; R. Fan

1570530787: Content Caching Strategy for Edge and Cloud Cooperation Computing, B. Li; L. Rui; Q. X-S.; H. Huang

1570527564: Differentiated Service Mechanism According to Vehicle Environment in Vehicular Edge Network, Zuoyan Tan; Lanlan Rui; Li Wenjing; Qiu Xue-song;ShaoYong Guo; Xiuzhi Yu

1570527718: Cost-Efficient Tasks Scheduling for Smart Grid Communication Network with Edge Computing System, Jiming Yao; Zhifeng Li; Yintao Li; Jie Bai; Jue Wang;Peng Lin

1570527536: A Clustering Algorithm Based on Communication Overhead and Link Stability for Cloud-assisted Mobile Adhoc Networks, K. Xiao; S. Xu; S-Y. Guo; X. Qiu; P. Yu; X. Chen; W. Deng; K. Guo

1570527676: A Deep Reinforcement Learning based Mechanism for Cell Outage Compensation in Massive IoT Environments, Jianli Guo; Zhihao Wang; Xiujian Shi; Xiao Yang; Peng Yu; Lei Feng; Li Wenjing

1570527030: Study on sharing and compatibility between ITS and Fixed Service, Z. Yanyan; B. Wang; L. Xin; L. Na
Session Title: e-Health (e-Health Symposium)  
Session Chair: Ali Idri (ENSIAS, Mohammed V of Rabat, Morocco)  

1570527789: ThermCont: A machine Learning enabled Thermal Comfort Control Tool in a real time, Brik Bouziane (University of Troyes, France); Moez Esseghir (Technology University of Troyes & Charles Delaunay Institute, France); Leila Boualahia & Hichem Snoussi (University of Technology of Troyes, France)

1570527942: An Investigation of Different Machine Learning Approaches for Epileptic Seizure Detection, Paulo Resque Souza, Alex B Santos and Denis Lima Rosário; Eduardo Cerqueira (Federal University of Para, Brazil)

1570527958: Heart of IoT: ECG as biometric sign for authentication and identification, Alex B Santos, Paulo Resque Souza and Denis Lima Rosário (Federal University of Para, Brazil); Eduardo Cerqueira (Federal University of Para, Brazil)

1570530979: Intrusion cancellation for anomaly detection in healthcare applications, Mbarka Belhaj Mohamed (National Engineering School of Gabes (ENIG), Tunisia)

1570531333: An ontology-based healthcare monitoring system in the Internet of Things, Sondes Titi and Hadda Ben Elhadji (ENIS, Tunisia); Lamia Chaari (University of Computer Science and Multimedia of Sfax, Tunisia)

1570535359: Maximizing Lifetime in Energy-Harvesting WBSN for Health Monitoring Systems Through Dynamic Slots Allocation, N. Badri; L. Nasraoui; L. A. Saidane (ENSI, U. of Manouba, Tunisia); S. S. Ikki (Lakehead Univ., Canada)

1570527890: DASS-CARE: A Decentralized, Accessible, Scalable, and Secure health care system using Blockchain, Jamal Al-Karaki (Abu Dhabi Polytechnic, UAE); Amjad Gawanmeh (Khalkia University, UAE); Meryeme Ayache (University Mohammed 5 & ENSIAS, Morocco); Ashraf Mashaleh (Balqa Applied University, Jordan)

Session Title: Communication Systems (General Symposium)  
Session Chair: Abderrahim Benslimane (University of Avignon, France)

1570542197: Cost Based Optimal Data Sampling Rate in Wireless Sensor Network, Jalal Almhana (U. de Moncton, Canada); Lutful Karim (Seneca College of Applied Arts and Technology, Canada); Catherine Almhana and Kevin De Souza (University of Moncton, Canada)

1570531523: Cognitive Radio Networks Channel State Estimation Using Machine Learning Techniques, Dina Tarek (Cairo Univ., Egypt); Abderrahim Benslimane (U. of Avignon, France); Gamal Darwish & Amira Kotb (Cairo University, Egypt)

1570538992: Can the Max-Min Fairness-based Coalition Mechanism in Competitive Networks be Trustful? Zheng Shen (Zhejiang University, P.R. China); Zhaquan Gu (Guangzhou University, P.R. China); Yuexuan Wang (University of Hong Kong & Zhejiang University, P.R. China); Zhihong Tian (Guangzhou University, P.R. China); Mingli Song (Zhejiang University, P.R. China); Chunsheng Zhu (The University of British Columbia, Canada)

1570542189: QFM-MRPL: Towards a QoS and fault management based of Mobile-RPL in IoT for mobile applications, Djamila Bendouda (Research Laboratory in Industrial Computing and Networks (LRIIR), Algeria)

1570542391: Optimal Resource Allocation in Joint Secret Key Generation and Data Transfer Scheme, Miroslav Mitev (University of Essex, UK); Arsenia Chorti (ENSEA & Princeton University, USA); Martin Reed (University of Essex, UK)

1570544583: Video Summarization based on Motion Detection for Surveillance Systems, Somaya Ali Al Karaki (Abu Dhabi Polytechnic, UAE); Amjad Gawanmeh (Khalkia University, UAE); Meryeme Ayache (University Mohammed 5 & ENSIAS, Morocco); Ashraf Mashaleh (Balqa Applied University, Jordan)

Session Title: Comm. & SP (Comm. & SP Symposium)  
Session Chair: Rodolfo Oliveira (NOVA University of Lisbon, Portugal)  

1570526839: An Iterative Massive-MIMO NOMA Receiver with Superimposed Pilots based Estimator for Sparse Channels, Junaid Nawaz Syed; Babar Mansoor (COMSATS University Islamabad); Mohammad N Patwary; Mak Sharma (Birmingham City University, UK)

1570530785: Decision-based Algorithm for Robust 2D-DoA Estimation with L-shaped Array, M. Bassem Ben Salah; Sahbi Mazlout; Abdelaziz Samet (Tunisia Polytechnic School, Tunisia)

1570531256: Performance Analysis of Rateless-Coded Non-Orthogonal Multiple Access, Hu Ying Meng and Rong Ke Liu (Beihang University, P.R. China); Aryan Kaushik and John Thompson (University of Edinburgh, UK); Xinwei Yue (Beijing Information Science and Technology University (BISTU), P.R. China)

1570531271: A New Self-adaptive Wireless Communication System for Spinal Codes, Xiangqiang Gao, Rong Ke Liu, Hongxiu Bian and Hu Ying Meng (Beihang University, P.R. China)
Session Title: Heterogeneous Networks (Wireless Nets Symp.)  
Session Chair: Mohamed Sadik (Hassan II University of Casablanca, Morocco)  
TA-5: Room: Maroc-2 R2

Session Title: Vehicular Communications I (Vehicular Symposium)  
Session Chair: Abdulla Al-Ali (Qatar University, Qatar)  
TA-6: Room: 17-Fevrier

Session Title: Internet of Things (Wireless Nets Symp.)  
Session Chair: Aiman Erbad (Qatar University, Qatar)  
TA-7: Room: Andalusian
Tuesday Afternoon Sessions (TA) — (16:00 - 18:00)

- **Session Title:** Physical Layer Security (Security Symposium)  
  **Session Chairs:** Amr Mohamed (Qatar University, Qatar)

- **Session Title:** Digital Investigation & Information Assurance Techniques (DIIAT)  
  **Session Chair:** Mohammed Boulmalf (International University of Rabat, Morocco)

- **Session Title:** Multimedia Information Processing (Multimedia Symposium)  
  **Session Chair:** Omar Elharrouss (Qatar University, Qatar)

Coffee Break — (15:30 - 16:00)

1570519311: Impact of outdated CSI on the secrecy performance of dual-hop networks using cooperative jamming; W. Mallat; W. Hadj Alouane (COSIM SUP’COM, Tunisia); H. Boujemaa (SupCom, Tunisia); F. Touati (Qatar University, Qatar)

1570519313: Secure Semi-Blind AF relaying networks using multiple eavesdroppers; Wided Hadj Alouane (COSIM SUP’COM, Tunisia)

1570519315: Partial Relay Selection for Secure Outdated-CSI AF in Untrusted-Relay Networks; Wided Hadj Alouane (COSIM SUP’COM, Tunisia)

1570527702: Benchmarking Convolutional and Recurrent Neural Networks for Malware Classification; Haidar Safa, Mohamed Nassar, Wael Al Orabi (American University of Beirut, Lebanon)

1570530416: A Lightweight IoT Security Solution; Hisham Yassine; Mohammad Malli (Arab Open University, Lebanon)

1570527633: Iterative Nonlinear Detection and Decoding in Multi-User Massive MIMO, Andrey Ivanov, Andrey Viktorovich Savinov and Dmitry Yarotsky (Skolkovo Institute of Science and Technology, Russia)

1570527899: Efficient Lossless Feedback Compression for FDD Massive MIMO, Moussa Diallo, Moustapha Mbaye, Papis Ndiaye and Diop Idy (UCAD, Senegal)

1570527683: Efficient Kalman Modeling of Multipath Wireless Channel for Secret Key Generation; Abdelkader Aljerme, Huaping Liu (Oregon State University, USA)

- **Session Title:** Name - Room: Lybie
  **Name:** Amr Mohamed (Qatar University, Qatar)

- **Session Title:** Room: Maroc-1
  **Name:** Mohammed Boulmalf (International University of Rabat, Morocco)

- **Session Title:** Room: Maroc-1 R1
  **Name:** Omar Elharrouss (Qatar University, Qatar)

- **Name:** Assia Naja (ENSIAS, Morocco); Mohammed Boulmalf (IUR, Morocco); Mohammad Essaaidi (Abdelmalek Essaadi U., Morocco)

- **Name:** Sheng Yu, Jianhua Li and Jun Wu (Shanghai Jiao Tong University, P.R. China)

- **Name:** Chérina Boucetta (University Paris Descartes & LIPADE, France); Oumaya Baala (FEMTO-ST Institute, Université Bourgogne Franche-Comté, CNRS & UTBM, France); Kahina Ait Ali (Orange Applications for Business, France); Alexandre Caminada (Université Cote d'Azur & Polytech Nice Sophia - Ecole Polytechnique de l'Université de Nice, France)

- **Name:** Tarek Abbès (ENETCOM, Tunisia)

- **Name:** Mohamed Khaigui (CEO ICTICA, Tunisia)

- **Name:** BlockLoc: Secure Localization in the Internet of Things using Blockchain; Omar Cheikhrouhou (Taif University, Saudi Arabia); Anis Koubaa (Prince Sultan University, unknown)

- **Name:** Young-Eun Kim, Dong-Kun Shin, In-Guk Hwang (Sejong University, South Korea)

- **Name:** Xiaochui Kuang and Jeffrey Leonel Redondo Sarmiento; Alar Kuusik; Muhammad Mahtab Alam; Yannick Le Moullec (TTU, Estonia); Sven Pärand (Telia Estonia Ltd, Estonia)

1570531010: NB-IoT Network Field Trial: Indoor, Outdoor and Underground Coverage Campaign, Hassan Malik, Sikandar Zulqarnain Khan and Jeffrey Leonel Redondo Sarmiento; Alar Kuusik; Muhammad Mahtab Alam; Yannick Le Moullec (TTU, Estonia); Sven Pärand (Telia Estonia Ltd, Estonia)

1570519311: Impact of outdated CSI on the secrecy performance of dual-hop networks using cooperative jamming; W. Mallat; W. Hadj Alouane (COSIM SUP’COM, Tunisia); H. Boujemaa (SupCom, Tunisia); F. Touati (Qatar University, Qatar)

1570519313: Secure Semi-Blind AF relaying networks using multiple eavesdroppers; Wided Hadj Alouane (COSIM SUP’COM, Tunisia)

1570519315: Partial Relay Selection for Secure Outdated-CSI AF in Untrusted-Relay Networks; Wided Hadj Alouane (COSIM SUP’COM, Tunisia)

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1570527633: Iterative Nonlinear Detection and Decoding in Multi-User Massive MIMO, Andrey Ivanov, Andrey Viktorovich Savinov and Dmitry Yarotsky (Skolkovo Institute of Science and Technology, Russia)

1570527899: Efficient Lossless Feedback Compression for FDD Massive MIMO, Moussa Diallo, Moustapha Mbaye, Papis Ndiaye and Diop Idy (UCAD, Senegal)

1570527683: Efficient Kalman Modeling of Multipath Wireless Channel for Secret Key Generation; Abdelkader Aljerme, Huaping Liu (Oregon State University, USA)
Liang Zhou (Nanjing University of Posts and Telecommunications, P.R. China)

1570518852: Energy Efficient for Scalable Video Caching Service over Device-to-Device Communication, Han Xiao, Changqiao Xu, Tengfei Cao & Shujie Yang (Beijing University of Posts and Telecommunications, P.R. China); Lujie Zhong (Capital Normal University, P.R. China); Gabriel-Miro Muntean (Dublin City University, Ireland)

1570518878: A Load Balancing Strategy based on Request Queue for P2P-VoD System, Xin Wei and Pingchuan Ding (Nanjing University of Posts and Telecommunications, P.R. China); Fang Zhou (Anhui University of Technology, P.R. China); Jinglei Lou and Yun Gao (Nanjing University of Posts and Telecommunications, P.R. China)

1570524930: Weighted Feature Fusion Based Emotional Recognition for Variable-length Speech using DNN, Sifan Wu & Fei Li (Nanjing U. of Posts and Telecom., P.R. China); Pengyuan Zhang (Chinese Academy of Sciences, P.R. China)

1570525978: Mining User Opinion Influencers on Twitter Social Network: Find that Friend who Leads your Opinion Using Bayesian Method and a New Emotional PageRank Algorithm, A. Ngaffo; W, El Ayeb; Z. Choukair (Supcom, Tunisia)

Session Title: Multimedia & Networking (Multimedia Symposium) TA-11: Room: Maroc-2
Session Chair: Mohamed Bouhorma (University Abdelmalek Essaadi, Morocco)

1570531976: A Mobile Quality-oriented Cooperative Multimedia Delivery Solution. John Monks (Dublin City University, Ireland); Cristina H Muntean (National College of Ireland, Ireland); Gabriel-Miro Muntean (Dublin City University, Ireland)

1570530944: Enhancing dynamic adaptive streaming over HTTP for multi-homed users using a Multi-Armed Bandit algorithm, Ali Hodroj (Lebanese University, Lebanon); Marc Ibrahim (Saint Joseph University, Lebanon); Yassine Hadjadji-Aoul (University of Rennes 1, France); Bruno Sericola (INRIA Rennes - Bretagne Atlantique, France)

1570527979: Opportunistic fuzzy logic based routing approach for RPL, Ines Kechiche & Ines Bousnina (Tunisia Polytechnic School, Tunisia); Abdelaziz Samet (INRS-EMT, Canada)

1570527968: Drone Disrupted Denial of Service Attack (3DOS): Towards an Incident Response and Forensic Analysis of Remotely Piloted Aerial Systems (RPASs), F. Salamah; U. Karabiyik; M. Rogers (Purdue U., USA); F. Hazemi (KAIST, Korea)

1570527972: Energy Efficiency Analysis of FeICIC in Dense Heterogenous Networks, Yanzan Sun, Han Sun, Shunqing Zhang, Yating Wu, Tao Wang, Yong Fang and Shugong Xu (Shanghai University, P.R. China)

1570531075: Passive TCP Identification for Wired and Wireless Networks: A Long-Short Term Memory Approach, Xiaoyu Chen, Shugong Xu, Xudong Chen, Shan Cao, Shunqing Zhang & Yanzan Sun (Shanghai University, P.R. China)

1570519557: Delay Constrainted-Rate Allocation for SVC over Device-to-Device Networks, Lei Wang; Huangda Lin; Mingkai Chen; Bin Kang; Xuguang Zhang; Wenqin Zhuang (Nanjing Univ. of Posts and Telecommunications, P.R. China)

Session Title: Relay (Wireless Nets Symposium) TA-12: Room: Maroc-2 R2
Session Chair: Aiman Erbad (Qatar University, Qatar)

1570526492: Impact of the Direct Link on the Performance of Single-Relay Buffer-Aided FSO Communications, Chadi Abou-Rjeily; Wissam Fawaz (LAU, Lebanon)

1570518817: Packet Length Optimization for Two Way Relaying, Ghassan R. Alnwaimi (King Abdulaziz University); Hatem Boujemaa (SupCom, Tunisia); Kamran Arshad (Ajman University, UAE)

1570527196: RL-Based User Association and Resource Allocation for Multi-UAV enabled MEC, Liang Wang (Northumbria University, UK); Peiqiu Huang (Central South University, P.R. China); Kezhi Wang (Northumbria University, UK); Guopeng Zhang (China University of Mining and Technology, P.R. China); Lei Zhang (University of Glasgow, UK); Nauman Aslam (Northumbria University, UK); Kun Yang (University of Essex, UK)

1570526754: Energy Efficiency Optimization in OFDM based Two-Way DF Relaying Networks with Energy Harvesting, Weidang Lu, Weilin Zhao and Hong Peng (Zhejiang University of Technology, P.R. China); Su Hu (UEST of China, P.R. China); Gao Yuan (Tsinghua University, P.R. China)

1570527627: Secure half-duplex dual-hop AF relaying networks with partial relay selection, Walid Mallat; Wided Hadj Alouane; Hatem Boujemaa (SupCom, Tunisia); Farid Touati (Qatar University, Qatar)

1570546909: Temporal mobility evolution of freely floating underwater sensor networks, Fatma Bouabdallah (KAU, SA)

1570536803: An NB-IoT-based smart trash can system for improved health in smart cities, Guangjie Han (Hohai University, P.R. China); Yujie Zhu and Gangyong Jia (Hangzhou Dianzi U., P.R. China); Zeren Zhou (Hohai University, P.R. China)

Session Title: Satellite Internet and Applications (Satellite Symposium) TA-13: Room: 17-Fevrier
Session Chair: Tianle Mai (Beijing University of Technology, P.R. China)

1570520884: Small Number but Big Influence: Analysis of Routing Usability in ISTN; WenYing Dai, Hewu Li, Qian Wu (Tsinghua University, P.R. China) Xiaomo Wang (China Academy of Electronics and Information Technology, P.R. China)

1570524172: Self-learning Congestion Control of MPTCP in Satellites Communications; Tianle Mai (Beijing University of Technology, P.R. China) Haipeng Yao (Beijing University of Posts and Telecommunications, P.R. China) Yaqing Jin (Beijing University of Posts and Telecommunications, P.R. China)
University of Technology, P.R. China) Xiaobin Xu (Beijing University of Posts and Telecommunications, P.R. China) Xiaolong Wang (Beijing University of Technology, P.R. China) Zhe Ji (Beijing University of Posts and Telecommunications, P.R. China)

1570527642: Experimental Performance Evaluation of TCP over an Integrated Satellite-Terrestrial Network Environment

Anas; Andrew Gallant, Hongjian Sun, Alan Purvis, Katharine Brigham (Durham University, UK)

1570527691: Space Edge Cloud Enabling Network Slicing for 5G Satellite Network

Anas; A. Bisu, Andrew Gallant, Hongjian Sun, Alan Purvis, Katharine Brigham (Durham University, UK)

1570527922: An Efficient Method for Multipath Mitigation Applicable to BOC Signals in GNSS

Fahad Khaled Alhussein, Huaping Liu (Oregon State University, USA)

1570530767: Secrecy Performance of AF relaying in Cooperative NOMA over Rician Channel

Nesrine Zaghdoud (SUP’COM, Tunisia); Wided Hadjalouane (COSIM Research Lab, Tunisia); Hatem Boujema (SupCom, Tunisia); Adel Ben Mnaouer (Canadian University Dubai, UAE); Farid Touati (Qatar University, Qatar)

1570530864: An MMSE Integrated Equalization for HARQ Chase Combining in OQAM-FBMC systems

Abla Bedoui (National Institute of Posts and Telecommunication, Morocco); Mohamed El-tolba (INPT, Morocco)

1570531189: Detection of Unknown Signals with IQ Imbalance

Ahmed ElSamadouny (UT-Dallas), Heba Shehata, Tamer Khattab, Khalid Abualsaud, Mohsen Guizani (Qatar University, Qatar)

1570526831: Design and Simulations Of Stable Pass-Band Filtering Response Using Miniaturized Element Frequency Selective Surface (MEFSS)

Marwa Daghari; Chafai Abdelhamid (ENIG, Tunisia); Hedi Sakli (National Engineering School of Tunis, Tunisia); Divitha Seetharamdoo (Univ Lille Nord de France, France)

1570519394: Novel Frequency Offset Estimation Scheme for Reliable Wireless Communication using Modified K-Means Clustering

Hamid Sharif and Michael Hempel; Mahmoud Alahmad (University of Nebraska - Lincoln, USA)

1570527406: Matrix Approximate Inversion Based Signal Detection in Large-scale 3D-MIMO Systems

Wei Ren, Yang Zhou and Fei Li (Nanjing University of Posts and Telecommunications, P.R. China)

1570527411: Location Aided and Machine Learning-Based Beam Allocation for 3D Massive MIMO Systems

Yuchen Xie; Wei Ji; Ting Li, Yan Liang and Fei Li (Nanjing University of Posts and Telecommunications, P.R. China)

1570530937: Subchannel Assignment for SWIPT-NOMA based HetNet with Imperfect Channel State Information

Sudeep Tanwar (Institute of Technology Nirma University Ahmedabad, India); Ishan Budhiraja (TIET Patiala, India); Sudhanshu Tyagi (Thapar Institute of Engineering & Technology, Deemed University, Patiala, India); Neeraj Kumar (Thapar University Patiala, India); Nadra Guizani (Purdue University, USA)
Wednesday, June 26th, 2019

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

KEYNOTE 2 — (9:00 - 10:00)          Room: Lybie

- **Speaker:** Prof. Abdallah Shami, Western University, Canada
- **Title:** Quality-Driven Next Generation Mobile Networks with Carrier-Grade Virtualized Platforms
- **Chair:** Dr. Sghaier Guizani, Alfaisal University, Saudi Arabia

Coffee Break — (10:00 - 10:30)

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

- **Session Title:** Machine Learning I (ML for NGS&N Workshop)          WM-1: Room: Lybie
- **Session Chair:** Tamer Khattab, Qatar University, Qatar

1570513341: Averaging Neural Network Ensembles Model for Quantification of Volatile Organic Compounds, Atiq ur Rehman (Hamad Bin Khalifa University (HBKU), Qatar); Amine Bermak (HBKU, Qatar)

1570518934: Using a Kalman Filter to improve schedulers performance in mobile networks, Varese S Timóteo (University of Campinas - UNICAMP & School of Technology, Brazil); Mário Teixeira (University of Campinas - UNICAMP, Brazil)

1570527699: Training Genetic Neural Networks Algorithms for Autonomous Cars using LAOP, Jihene Rezgui, Léonard Oest Leary and Clément Bisaillon (College Maisonneuve, Canada); Lamia Chaari (University of Computer Science and Multimedia of Sfax & Laboratory of Technologies for Smart Systems at Digital Research Center of Sfax (CRNS), Tunisia)

1570527757: Relay Selection Based on Deep Learning for Broadcasting in VANET, Salim El khediri, dr (College of Computer & Qassim University, Saudi Arabia); Tarek Moulahi (CoC, Qassim University, SA)

1570527028: IoT-based Seismic Hazard Detection in Coal Mines using Grey Systems Theory, Nimisha Ghosh (Institute of Technical Education and Research, India); Indrajit Banerjee (Indian Institute of Engineering Science & Technology, India)

- **Session Title:** Theory and Applications for Security (SeNTApE Workshop)          WM-2: Room: Maroc-1
- **Session Chair:** Alman Erbad (Qatar University, Qatar)

1570527861: A Dendritic Cell Algorithm Based Approach for Malicious TCP Port Scanning Detection, Nuha Al Masalmeh (UAE U., UAE); Firas Saïdi (RIADI Laboratory, La Manouba, Tunisia); Zouheir Trabelsi (UAE University, UAE)

1570527577: Predicting Probing Rate Severity Leveraging Twitter Sentiments, Hicham Hammouchi; Ghita Mezzour; Mounir Ghogho (International University of Rabat, Morocco); Mohammed El Koubti (ENSIAS, Morocco)

1570520700: State of the art on Privacy Risk Estimation Related to Android Applications, Zied El May and Hella Kaffel Ben Ayed; Dorra Machfar (University of Tunis El Manar, Tunisia)

1570524363: Anomaly Detection Model Over Blockchain Electronic Transactions, Sirine Sayadi; Sonia Ben Rejeb (Sup'com, Tunisia); Zied Choukair (Mediatron SupCom, Tunisia)

1570526617: A light-weight implementation of latch-based true random number generator, Naoki Fujieda (Aichi Institute of Technology, Japan); Hitomi Kishibe and Shuichi Ichikawa (Toyohashi University of Technology, Japan)

1570526650: Augmented Perception by V2X Cooperation (PAC-V2X): Security issues and misbehavior detection solutions, Mohamed Hadded; Oyunchimeg Shagdar; Pierre Merdrignac (VEDECOM Institute, France)

1570519071: A Novel Sybil Attack Detection Mechanism for C-ITS, M. Ayaida and N. Messai (U. of Reims Champagne-Ardenne, France); Sameh Najeh (Supcom, Tunisia); Geoffrey Wilhelm (U. of Reims Champagne-Ardenne, France)
Session Title: SatCom Resource Allocation (Satellite Symposium)  
Session Chair: Jun Du (Tsinghua University, P.R. China)  
WM-3: Room: Maroc-1 R1

1570524173: Computing Resource Allocation in LEO Satellites System: A Stackelberg Game Approach; Tianle Mai (Beijing University of Technology, P.R. China) Haipeng Yao (Beijing University of Posts and Telecommunications, P.R. China) Feixiang Li (Beijing University of Technology, P.R. China) Xiaobin Xu (Beijing University of Posts and Telecommunications, P.R. China)Yaqing Jin (Beijing University of Technology, P.R. China) Zhe Ji (Beijing University of Posts and Telecommunications, P.R. China)

1570527189: Resource Allocation for Beam-hopping User Downlinks in Multi-beam Satellite System; Wang Lin (Nanjing University of Posts and Telecommunications, P.R. China) Zhang Chen (Nanjing University of Posts and Telecommunications, P.R. China) Gengxin Zhang (Nanjing University of Posts and Telecommunications, P.R. China)

1570527629: Dynamic Resource Allocation in LEO Satellite; Andrey Ivanov, Maria Stoliarenko, Stanislav Kruglik, Serafim Novichkov, Andrey Viktororov Savinov (Skolkovo Institute of Science and Technology, Russia)

1570527667: Double Auction Based Resource Allocation for Secure Video Caching in Heterogeneous Networks; Jun Du, Chunxiao Jiang (Tsinghua University, Beijing, P.R. China) Haijun Zhang (University of Science and Technology Beijing, P.R. China) Yong Ren (Tsinghua U., Beijing, P.R. China) Tony Q. S. Quek (SUTD, Singapore)

1570527668: Second-Price Auction Based Cognitive Traffic Offloading in Heterogeneous Networks; Jun Du, Chunxiao Jiang (Tsinghua University, Beijing, P.R. China) Haijun Zhang (University of Science and Technology Beijing, P.R. China) Yong Ren (Tsinghua University, Beijing, P.R. China) Victor C.M. Leung (University of British Columbia, Canada)

1570528408: Multi-Resource Management for Multi-Tier Space Information Networks: A Cooperative Game; Xinru Mi, Chungang Yang (Xidian University, P.R. China) Zheng Chang (University of Jyväskylä, Finland)

Session Title: Clustering and General Mechanisms for WSNs (WSNs Symp.)  
Session Chair: Rafik Braham (University of Sousse, Tunisia)  
WM-4: Room: Maroc-2

1570527871: Body Area Networks MAC Protocols for Healthcare: Performance Evaluation, Ferdawss Douma (ISITCOM, Tunisia); Rafik Braham (University of Sousse, Tunisia)

1570528402: A Two-Level Clustering based on Position, Data Correlation and Residual Energy in WSN, Marwa Fattoum (Higher School of Communication of Tunis, Tunisia); Zakia Jellali; Leila Najjar (SupCom, Tunisia)

1570518864: On Improving Flight Energy Efficiency in Simultaneous Transmission and Reception of Relay Using UAVs, Ayaka Hanyu, Yuichi Kawamoto and Nei Kato (Tohoku University, Japan)


1570519101: A Distributed Processing Technique for Sensor Data Applied to Underwater Sensor Networks, Mohamad Rida Mortada (ENSTA-Bretagne, Lebanon); Abdallah Makhoul (University of Franche-Comté & FEMTO-ST, France); Chady Abou Jaoude (Antoine University UNIVERSITY & TICKET Lab, Lebanon); Hassan Harb (American University of Culture and Education, Lebanon); David Laiymani (LIFC, France)

1570519426: Proposal of a new self-organizing protocol for data collection regarding Mobile Wireless Sensor and actor Networks, Kamel Barka; Lyamine Guezouli; Samir Gourdache; Djallel Eddine Boubiche (University of Batna, Algeria)

1570526722: Distributed Interference and Power Control based-Game Theory for D2D Communication, Sameh Najeh (Supcom, Tunisia); Ammar Bouallegue (National School of Engineers of Tunis, Tunisia)

1570526761: Energy Trading Scheme Based on Contract Theory in Cooperative Relay Network, Chen Liu, Weidang Lu and Hong Peng (Zhejiang University of Technology, P.R. China); Su Hu (University of Electronic Science and Technology of China, P.R. China); Gao Yuan (Tsinghua University, P.R. China)

Session Title: Mobile Computing II (Mobile Computing Symp.)  
Session Chair: Nidal Nasser (Alfaisal University, SA)  
WM-5: Room: Maroc-2 R2

1570519303: Self-organization Smart Protocol for Mobile Wireless Sensor Networks, Lyamine Guezouli; Kamel Barka; Samir Gourdache; Djallel Eddine Boubiche (University of Batna, Algeria)

1570519358: Resource Management in Cloud Data Centers: A survey, Khaoula Braiki (ISITCom, Tunisia)

1570519378: Sub-Optimum Detection Scheme with Double the Full Diversity for Asynchronous Cooperative Relay Network, Abdulghani M Elazreg; Ahmad Khazan (University of Derby, UK)

1570527880: Performance and Correctness of Mobile Cloud Computing Systems: Taxonomy and Open Challenges, Fairouz Fakhfakh (FSEGs, Tunisia)

1570527913: Impact of Clustering Algorithms on the performance of Multilevel Switch Boxes FPGA with Long Wires, Khouloud Bouaziz; Sonda Chtourou (National School of Engineers of Sfax (ENIS), Tunisia); Zied Marrakchi (Lip6, France)
Abdulfattah M. Obeid (KACST) Saudi Arabia; Mohamed Abid (CES-ENIS, Tunisia)

**1570522076**: CEET: Cooperative Energy Efficient Tracking System using Smartphones, Y. Ali & U. Baroudi (KFUPM, SA)

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**1570527876**: Securing Fast PMIPv6 protocol in case of vertical handover in 5G network, Wafa Haddar (ISI, Tunisia); Sirine Ben Ameur (NT’s COM, Tunisia); Fouzi Zarai (Sfax University, Tunisia)

**1570531126**: FW-TR: Towards a Novel Generation of Firewalls Based on Trust-Risk Assessment of Filtering Rules and Policies, Fouzi Jaidi (DSRU SUPCOM Tunisia, Tunisia)

**1570532208**: SAMAFog: Service-Aware Mutual Authentication Fog-based Protocol, Arij Ben Amor (Univ. of Tunis-Elmanar, Tunisia); Mohamed Abid (Univ. of Gabes, Tunisia); Aref Meddeb (Univ. of Sousse, Tunisia)

**1570530006**: The Security Evaluation of Big Data Research for Smart Grid, Zhiping Li and Yintao Li (State Grid Information & Telecommunication Group, P.R. China); Peng Lin (VECTINFO, P.R. China)

**1570527605**: A novel Approach for Privacy-Preserving Data Aggregation in Smart Grid, Rihem Ben Romdhane (Higher School of Communication of Tunis, Tunisia)

**1570535393**: At the cross roads of lattice-based and homomorphic encryption to secure data aggregation in smart grid, Rihem Ben Romdhane (Higher School of Communication of Tunis, Tunisia)

**1570527813**: A new vehicular blackbox architecture based on searchable encryption, Emna Jaidane (National Engineering School of Tunis, Tunisia); Mohamed Hamdi (Innovation Park El Ghazala); Taoufik Aguili (ENIT, Tunisia); Kim Tai-hoon (University of Tasmania, Australia)

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**1570526490**: Study on the parameters for the convergence of the Method of Auxiliary Sources, Sami Hidouri (National Engineering School of Tunis, Tunisia)

**1570527808**: Energy consumption of virtual machine migration within varied DCN architectures, Nawel Kortas (ISITCom of Hammam Sousse, Tunisia)

**1570530789**: Green Handoff in Femtocell Network, Ines Damak, ID (University El Manar & ENIT, Tunisia); Ridha Bouallaguel (SupCom., Tunisia); Hela Hachaichi (ENIT, Tunisia)

**1570534943**: Online Transmission Policy in Wireless Powered Networks with Urgency-aware Age of Information, Yang Lu and Ke Xiong (Beijing Jiaotong University, P.R. China); Pingyi Fan (Tsinghua University, P.R. China); Zhangdui Zhong (Beijing Jiaotong University, P.R. China); Khaled B. Letaief (HKUST, Hong Kong)

**1570535228**: Broadcast Age of Information in CSMA/CA Based Wireless Networks, Mei Wang and Yunquan Dong (Nanjing University of Information Science and Technology, P.R. China)

**1570531031**: Green data center networks: a holistic survey and design guidelines, Emna Baccour (Qatar University, Qatar); Sebti Foufou (University of Burgundy, France); Ridha Hamila & Aiman Erbad (Qatar University, Qatar)

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**LUNCH BREAK**

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

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**1570519053**: Dynamic Spectrum Allocation with Priority for Different Services in Cognitive-Radio-based Neighborhood Area Network for Smart Grid, Kepeng Yang; Yueqi Zi; Peng Yu; Li Wenjing; Qinghai Ou; Lei Feng

**1570519111**: Transmission Strategy of GOOSE Service based on Cellular Multimedia Broadcasting in Smart Grid, Jiming Yao; Zhifeng Li; Yintao Li; Jie Bai; Yue Wang; Peng Lin

**1570519114**: Resource Allocation for Multi-class Businesses in LTE-A Uplink Communication for Smart Grid, Yao Wang; Yun Liang; Wenfeng Tian; Pengfei Zeng; Xiaoyan Sun; Lei Feng; Jinlong Chai; Qiang Zhao; Yueqi Zi

**1570522332**: Analysis of the Impact of eMTC on Legacy LTE, Zhirong Zhang; Xuelian Zhu; Zeng Yong

**1570527941**: CAPM: Context-Aware Privacy Model for IoT-based smart hospitals, S. Zemmoudi; N. Bermad; M. Omar

**1570527819**: Combining deep neural networks with SVM to identify IoT speakers, A. N. Nguyen; T. Nguyen; Y. Liu; F. Wu

**1570530573**: Intelligent tag Prediction Algorithms for Acupuncture Experts, Zeng Qingtao; Xu Anping; Li Yeli; Piao Chunhe
Session Title: IoT I (IoT Symposium)  
Session Chair: Phone Lin, National Taiwan University, Taiwan

1570527966: A Survey on Multi-Agent Reinforcement Learning Methods for Vehicular Networks, Ibrahim Althamary and Chih-Wei Huang (National Central University, Taiwan); Phone Lin (National Taiwan University, Taiwan)
1570527626: Service Discovery in Heterogeneous IoT Environments based on OCF/IoTivity, Khaled Elsayed, Mohamed Abu Baker Ibrahim & Haitham S. Hamza (Cairo University, Egypt)
1570527732: Virtual Network Function Placement in IoT Network, Duong Tuan Nguyen; Chuan Pham; Kim Khoa Nguyen; Mohamed Cheriet (University of Quebec, Canada)
1570527943: PHY/MAC Uplink Performance of Class A LoRa Networks João Pacheco (Nova University of Lisbon, Portugal); António Furtado (Instituto de Telecomunicações, Portugal); Rodolfo Oliveira (Nova University of Lisbon, Instituto de Telecomunicações, Portugal)
1570530436: Analysis of RSSI Fingerprinting in LoRa Networks, Mahnoon Anjum; Muhammad Abdullah Khan; Syed Ali Hassan (NUST, Pakistan); Aamir Mahmood and Mikael Gidlund (Mid Sweden University, Sweden)
1570531127: Enhancing MQTT-SN Performance via Fountain Codes in Extreme Conditions, Ahmad Alshantout; Louai Al-Awami (King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia)
1570534154: A Survey on Recent Approaches in Intrusion Detection System in IoTs; Aliya Tabassum, Aiman Erbad and Mohsen Guizani (Qatar University, Qatar)

Session Title: Vehicular Communications III (Vehicular Symp.)  
Session Chair: Wassim El-Hajj (American University of Beirut, Lebanon)

1570531120: Inhomogeneous Multi-UAV Aerial Base Stations Deployment: A Mean-Field-Type Game Approach, Yan Sun, Lixin Li, Kalyuan Xue and Xu Li; Wei Liang (Northwestern Polytech U., P.R. China); Zhu Han (Univ. of Houston, USA)
1570527905: An Evaluative Review of the Formal Verification for VANET Protocols, Faten Fakhfakh (ReDCAD, Tunisia); Mohamed Mosbah (LaBRI/ Bordeaux University & LaBRI, France)
1570529627: Adaptive Security for the Intra-Electric Vehicular Wireless Networks, Frejji Yosra (ENSI & Cristal Lab, Tunisia); Lamia Benazzouz (CRISTAL, Tunisia); Wassim Trojet (Esiègec-IRSEEEM, Normandie Université, France); Leila Azzouz Saidane (University Manouba, Tunisia); Ghaleb Hoblos (IRSEEEM, France)
1570534374: Video streaming in vehicular ad-hoc networks applications challenges and techniques, Bechir Alaya (LITIS - Université du Havre, France); Nadia Zribi (FST Gabes, Tunisia); Tarek Moulahi (Qassim University, Saudi Arabia)

Session Title: Artificial Intelligence for WSNs (WSNs Symp.)  
Session Chair: Khalid Elgazzar (University of Ontario Institute of Tech., Canada)

1570531088: Forecasting Traffic Congestion Using ARIMA Modeling, Tagheed Alghamdi and Khalid Elgazzar (University of Ontario Institute of Technology, Canada); Magdy Bayoumi (University of Louisiana at Lafayette, USA); Taysseer Sharaf (University of Michigan, Dearborn, USA); Sumit Shah (CGI, Canada)
1570513793: Automated Sensor-Fusion Based Emergency Rescue for Remote and Extreme Sport Activities, Benjamin Leiding, Arne Bochem and Luca Hernandez Acosta (University of Goettingen, Germany)
1570531008: Adaptive Range-based Anomaly Detection in Drone-assisted Cellular Networks, Chérifa Boucetta (University Paris Descartes, France); Boubakr Nour (Beijing Institute of Technology, P.R. China); Seif eddine Hammami (Institute Mines-Telecom, Télécom SudParis, France); Hassine Mounla (University of Paris Descartes & Instiut Mines Telecom, France); Hossam Affifi (Télécom SudParis, Institut Telecom & Paris Saclay, France)
1570530965: Stacked Auto-Encoder for Scalable Indoor Localization in Wireless Sensor Networks, Souad BelMannoubi (University of Gabes, Tunisia); Haifa Touati (Ensi, Cristal, Tunisia); Hichem Snoussi (Univ. of Technology of Troyes, France)
1570530011: A comparative Analysis of Machine Learning Classification Approaches for Fountain Data Estimation in Wireless Sensor Networks, Fatma BelAbed (National Engineering School of Tunis, Tunisia); Ridha R. Bouallegue, B. (Ecole Supérieure des Communications de Tunis, Tunisia)
1570518772: An Adaptive Sampling Technique for Massive Data Collection in Distributed Sensor Networks, Hassan Harb (American University of Culture and Education, Lebanon); Ahmad Karaki (Lebanese University, Lebanon); Chady Abou Jaoude (Antonine University & TICKET Lab, Lebanon); Abbass Nasser (Ensta-Bretagne, France & AUCE, Lebanon)

Session Title: Maroc-1
WA-3: Room: Maroc-1 R1

Session Title: Maroc-2
WA-4: Room: Maroc-2
<table>
<thead>
<tr>
<th>Session Title</th>
<th>QoS and e-Health</th>
<th>WA-6: Room: 17-Fevrier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session Chair</td>
<td>Haidar Safa (American University of Beirut, Lebanon)</td>
<td></td>
</tr>
</tbody>
</table>

1570531407: Efficient EEG Mobile Edge Computing and Optimal Resource Allocation for Smart Health Applications, Abeer AlMarridi, Amr Mohamed, Aiman Erbad, Abdulla Al-Ali and Mohsen Guizani (Qatar University, Qatar)

1570527858: Analysis of the Effect of QoS on Video Conferencing QoE, Nanditha Rao, Amir Maleki, Fu Chi Chen, Wenjun Chen, Chengyuan Zhang; Navneet Kaur; Anwar Haque (Western Ontario, Canada)

1570525378: A Comparative Study on the Quality of Narrow-Band and Wide-Band AMR VoLTE Calls, Elena Cipressi; Maria Luisa Merani (University of Modena and Reggio Emilia, Italy)

1570526888: Evaluating QoS in SDN-Based EPC: A Comparative Analysis, Yaser Al Mtawal (University of Western Ontario, Canada); Amir Memari (Western University, Canada); Anwar Haque (Western Ontario, Canada); Hanan Lutfiyya (The University of Western Ontario, Canada)

1570527885: Dynamic QoS-aware Queuing for Heterogeneous Traffic in Smart Home, Maroua Ben Attia and Kim Khoa Nguyen; Mohamed Cheriet (University of Quebec, Canada)

1570533887: Joint Optimization of EE and SE Considering Interference Threshold in Ultra-Dense Networks, Xu Chen; Xuanli Wu; Shuai Han; Ziyi Xie (Harbin Institute of Technology, P.R. China)

1570524282: A Machine Learning Approach of Load Balance Routing to Support Next-Generation Wireless Networks, Haiping Yao and Xin Yuan (Beijing University of Posts and Telecommunications, P.R. China); Peiying Zhang (China University of Petroleum (East China), P.R. China; Jingjing Wang & Chunxiao Jiang (Tsinghua Univ., Beijing, P.R. China)

1570527243: Enhanced Energy Efficiency by Neighbors-Aware Algorithm in Femtocell Networks, Dorsaf Ghozlani (University of Quebec, Canada); Aymen Omri (Texas A&M Univ-Qatar, Qatar); Anthony Busson (Univ. Claude Bernard Lyon 1, France); Ridha Bouallegue (Ecole Supérieure des Communications de Tunis, Tunisia)

1570529113: Average and Instantaneous Throughput Maximization for Millimeter Wave Communications, Ghassan R. Alnwaimi (King Abdulaziz University, Saudi Arabia); Hatem Boujemaa (Sup'Com, Tunisia)

1570530490: Joint Power and Channel Allocation for Underlay D2D Communications with Proportional Fairness, Miaomiao Liu, Li Zhang and You You (University of Leeds, UK)

Coffee Break — (15:30 - 16:00)

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

<table>
<thead>
<tr>
<th>Session Title</th>
<th>Vehicular Communications II (Vehicular Symp.)</th>
<th>WA-8: Room: Lybie</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session Chair</td>
<td>Fumiyuki Adachi (Tohoku University, Japan)</td>
<td></td>
</tr>
</tbody>
</table>

1570527687: Low-Complexity Channel Tracking in Fast-varying MIMO Environments, Ruoxu Wang, Wei Peng and Tao Jiang (Huazhong University of Science and Technology, P.R. China); Fumiyuki Adachi (Tohoku University, Japan)

1570527683: Shipwrecked Victims Localization and Tracking using UAVs, Imen Nasr (SUP'COM, Tunisia); Meriem Chekir (ESPRIT, Tunisia); Hichem Besbes (Sup'Com, University of Carthage, Tunisia)

1570527748: Software Defined Internet of Vehicles: a survey from QoS and scalability perspectives, Karima Smida; Hajer Toumi; Mounir Frikha (Sup'Com, Tunisia); Ye-Qiong Song (LORIA, France)

1570527750: Semidefinite Relaxation of a Joint Beamforming and Power Control for Downlink V2X Communications, Brahmi Btissem (NTS'COM Research Unit, ENET.COM & University of Sousse, Tunisia); Monia Hamdi (GABES University, Tunisia); Fadoua Mhir (TIME Université & ENIT, Tunisia); Faouzi Zarai (Sfax University, Tunisia)

1570527755: Coverage Optimization with Connectivity Constraint for Multiple Unmanned Aerial Vehicles Amani, Lamine (University of Manouba & ENSI, Tunisia); Fethi Mguis (Computer and Information Sciences, Saudi Arabia); Hichem Snoussi (University of Technology of Troyes, France); Khaled Ghèdira (SOIE, Tunisia)
### Session Title: IoT II (IoT Symposium)
**Session Chair:** Chih-Wei Huang, National Central University, Taiwan

<table>
<thead>
<tr>
<th><strong>Session Title</strong></th>
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<tbody>
<tr>
<td>1570513903: SeMLAS: An Efficient Secure Multi-Level Authentication Scheme for IoT-Based Smart Home Systems, Bacem Mbarek; Barbora Buhnova; Tomáš Pitner (Masaryk University, Czech Republic)</td>
<td>1570518767: Optimized Flow Assignment in a Multi-Interface IoT Gateway, Mohamed Ghazi Amor; Kim Khoa Nguyen; Chuan Pham; Mohamed Cheriat (University of Quebec, Canada)</td>
<td>1570522986: Joint Security and Energy Efficiency in IoT Networks Through Clustering and Bit Flipping, Elias Yaacoub; Ali Chehab (American University of Beirut, Lebanon); Mohammed Al-Husseini (Beirut Research and Innovation Center, Lebanon); Khalid Abualsaud and Tamer Khattab; Mohsen Guizani (Qatar University, Qatar)</td>
</tr>
<tr>
<td>1570525232: Edge Computing-Enhanced Uplink Scheduling for Energy-Constrained Cellular Internet of Things, Zih-Ning Lin and Shun-Ren Yang (NTUH, Taiwan); Phone Lin (National Taiwan University, Taiwan)</td>
<td>1570526645: Content Delivery in Named Data Networking based Internet of Things, Kaoutar Ahed; Maria Benamar (UMI, Morocco); Rajae El Ouazzani (Ecole Supérieure de Technologie, Morocco)</td>
<td>1570527547: Computer-Aided Software Engineering (CASE) Tool for Big Data and IoT Architecture, Mohamed Saiedfinedd Hadj Sassi (University of Sfax, Tunisia); Faiza Ghozzi (ISIMS, Tunisia); Lamia Chaari (University of Computer Science and Multimedia of Sfax, Tunisia)</td>
</tr>
<tr>
<td>1570522602: A Modified Balls-into-Bins Model for Expected Buffer Occupancy in Mobile Opportunistic Networks, Gourish Goudar; Suvadip Batabyal (BITS Pilani, India)</td>
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</table>

### Session Title: RF and Antenna Design (Wireless Nets Symp.)
**Session Chair:** Shuai Han (Harbin Institute of Technology, P.R. China)

<table>
<thead>
<tr>
<th><strong>Session Title</strong></th>
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<tbody>
<tr>
<td>1570518933: Design of printed log-periodic antennas for long range communication modules: preliminary simulation results, Gian Luigi Gragnani and Claudio Montecucco (University of Genoa, Italy)</td>
<td>1570526572: A Frequency-Reconfigurable Printed Antenna with Switchable Capacitively Loaded Loops, Saber Dakhli (SUPCOM &amp; University of Carthage Tunis, Tunisia)</td>
<td>1570527436: The effect of High Power Amplifier Nonlinearity on MU-Massive MIMO System Performance over Rayleigh Fading Channel, Maha Cherif (Innov'Com Lab, Tunisia)</td>
</tr>
<tr>
<td>1570527637: Antenna Polarization Impact on Electromagnetic Power Density for an Off-Body to In-Body Communication Scenario, Aymen Ben Saada; Sofiane Ben Mbarek; Fethi Choubani (University of Carthage, Tunisia)</td>
<td>1570527741: MoM-GEC Modeling of Frequency-Reconfigurable Antenna for Wireless Communications, Heithem Helali; Mourad Aidi (National Engineering School of Tunis, Tunisia); Mohamed Hajji (ENIT, Tunisia); Ahmed Nkouainia (Faculty of Sciences of Tunis, Tunisia); Taoufik Agulli (Laboratoire des Systèmes de Communications, Tunisia)</td>
<td>1570530357: Design of a switched line phase shifter for reconfigurable mm-wave Antennas, Ilhem Gharbi (University of Carthage, Tunisia)</td>
</tr>
<tr>
<td>1570527866: RADR: Routing for Autonomous Drones, Nicole Chow and Gopi Gugan; Anwar Haque (W. Ontario, Canada)</td>
<td>1570530939: Ranking Fog nodes for Task Scheduling in Fog-Cloud Environments: A Fuzzy Logic Approach, Mohammed Anis Benblidia; Bouziane Brik; Leila Boulahia; Moez Esseghir (University of Troyes, France)</td>
<td>1570527866: RADS: Routing for Autonomous Drones, Nicole Chow and Gopi Gugan; Anwar Haque (W. Ontario, Canada)</td>
</tr>
</tbody>
</table>

### Session Title: Machine Learning II (ML for NGS&N Workshop)
**Session Chair:** Mohamed Lahby (University Hassan II of Casablanca, Morocco)

<table>
<thead>
<tr>
<th><strong>Session Title</strong></th>
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</thead>
<tbody>
<tr>
<td>1570530994: Predicting Solar Irradiance Using Machine Learning Techniques, Abeera Javed (Balochistan University of Information Technology Engineering And Management Sciences, Pakistan)</td>
<td>1570531944: Enhancing cloud of things performance by avoiding unnecessary data through artificial intelligence tools, Sami Mahfoudhi and Musheera Frehat; Tarek Moulahi (Qassim University, Saudi Arabia)</td>
<td>1570534998: Machine Learning Based Prediction and Classification of Computational Jobs in Cloud Computing Centers, Zheqi Zhu and Pingyi Fan (Tsinghua University, P.R. China)</td>
</tr>
<tr>
<td>1570534998: A Modified Balls-into-Bins Model for Expected Buffer Occupancy in Mobile Opportunistic Networks, Gourish Goudar; Suvadip Batabyal (BITS Pilani, India)</td>
<td>1570534998: A Modified Balls-into-Bins Model for Expected Buffer Occupancy in Mobile Opportunistic Networks, Gourish Goudar; Suvadip Batabyal (BITS Pilani, India)</td>
<td>1570534998: A Modified Balls-into-Bins Model for Expected Buffer Occupancy in Mobile Opportunistic Networks, Gourish Goudar; Suvadip Batabyal (BITS Pilani, India)</td>
</tr>
</tbody>
</table>
**Session Title:** Mobile IoT (5G IoT Symposium)  
**Session Chair:** Michel Kadoch (ETS University of Quebec, Canada)  
**Room:** Andalusian

<table>
<thead>
<tr>
<th>Session ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1570520154</td>
<td>Pose Determination from Multi-View Image using Deep Learning, Shantong Sun; Rong Ke Liu; Yu Pan; Qiuchen Du; Shuqiao Sun; Han Su</td>
<td></td>
</tr>
<tr>
<td>1570521734</td>
<td>UAV detection and identification in the Internet of Things, Jingcheng Zhao; Xinru Fu; Zongkai Yang; F. Xu</td>
<td></td>
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<tr>
<td>1570523191</td>
<td>Research on Reliability Modeling of Image Transmission Task Based on UAV Avionics System, Qiang Zhou; Jing Yang</td>
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<tr>
<td>1570530796</td>
<td>3D Aerial Vehicle Base Station (UAV-BS) Position Planning based on Deep Q-Learning for Capacity Enhancement of Users With Different QoS Requirements, J. Guo; Y. Huo; X. Shi; J. Wu; P. Yu; L. Feng; L. Wenjing</td>
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<tr>
<td>1570531238</td>
<td>A Low-complexity Implementation Scheme for PCM/FM base on MLSD, You Zhou; Ruifeng Duan; B. Jiang</td>
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<tr>
<td>1570527473</td>
<td>Double-layer Satellite Communication Network Routing Algorithm Based on priority and failure probability, Yu Zhu; Lanlan Rui; Qiu Xue-song; Haoqiu Huang</td>
<td></td>
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<tr>
<td>1570522134</td>
<td>An Improved Wavelet Packet Denoising Algorithm Based on Sample Entropy for IoT, C. Liu; H. Duan; L Zhao</td>
<td></td>
</tr>
<tr>
<td>1570527382</td>
<td>Simulation and Analysis of Device Positioning in 5G Ultra-Dense Network, Q. Liu; R. K. Liu; Z. Wang; Y. Zhang</td>
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</tr>
</tbody>
</table>

**DINNER BANQUET**  
19:00 – 21:00
Thursday, June 27th, 2019

Registration — (8:00 - 15:00)

KEYNOTE 3 — (9:00 - 10:00) Room: Lybie

- **Speaker:** Prof. Magdy A. Bayoumi, University of Louisiana at Lafayette, USA
- **Title:** IoT Security: Hype, Reality, and Challenges
- **Chair:** Khalid Elgazzar, University of Ontario Institute of Technology, Canada

Coffee Break — (10:00 - 10:30)

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

**Session Title:** Mobile Computing I (Mobile Computing Symp.) ThM-1: Room: Lybie

- **Session Chair:** Khalid Elgazzar (University of Ontario Institute of Technology, Canada)

**Keynote:** IoT: Hype, Reality, and Challenges, **Prof. Magdy A. Bayoumi,** University of Louisiana at Lafayette, USA

1570531128: Minimization of Offloading Delay for Two-Tier UAV with Mobile Edge Computing, Jingfang Liu and Lixin Li (Northwestern Polytechnical University, P.R. China); Fucheng Yang (Naval Aviation University, P.R. China); Xiaomin Liu, Xu Li and Xiao Tang (Northwestern Polytechnical University, P.R. China); Zhu Han (University of Houston, USA)

1570530451: A Scalable and Adaptive Task Orchestration Platform for IoT, Harafeddine Mechalikh and Hajer Taktak; Faouzi Kammoun; Ryma Abassi; Sihem Guemara (SupCom, Tunisia)

1570530922: AI for IoT (AI for IoT Workshop)

- **Session Chair:** Yousaf Bin Zikria, Yeungnam University, South Korea

1570530935: Forecasting day, week and month ahead electricity load consumption of a building using empirical mode decomposition and extreme learning machine, Sajjad Khan; Nadeem Javaid; Annas Chand; Raza Abbasi; Hafiz Muhammad Faisal (COMSATS Institute of Information Technology, Islamabad, Pakistan); Abdul Basit Majeed Khan (Abasyn University Islamabad Campus, Pakistan)
<table>
<thead>
<tr>
<th>Session Title</th>
<th>Advances Towards 5G Communications (5G Symp.)</th>
<th>ThM-4: Room: Maroc-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session Chair</td>
<td>Mustapha Benjillali (INPT, Morocco)</td>
<td></td>
</tr>
</tbody>
</table>

1570527745: On Optimal Power Allocation for Downlink NOMA Transmissions under PHY QoS Constraints; Rajaa Elouafadi and Mustapha Benjillali (INPT, Morocco)  
1570527665: TCO Game in 5G Multi-Tenant Virtualized Mobile BackHaul (V-MBH) Network; Nassim Haddaji (ETS-University of Quebec, Canada); Kim Khoa Nguyen; Mohamed Cheriet (University of Quebec, Canada)  
1570519040: Low-Complexity Cross-Layer Resource Allocation for Low-Latency D2D-Based Relay Networks; Yahui Wang, Chen Xu, Yanhua He, Zhenyu Zhou (North China Electric Power University & Waseda University, P.R. China)  
1570525912: User Grouping Based Multi-Layer Precoding for Multi-Cell 3D MIMO System with Statistical CSI; Jishu Xue, Yan Liang, Ting Li and Fei Li; Wei Ji (Nanjing University of Posts and Telecommunications, P.R. China)  
1570527116: 5G Dynamic Borrowing Scheduler for IoT communications; Ahlem Saddoud; Wael Doghri (CRNS, Tunisia); Emna Charfi (University of Sfax, Tunisia); Lamia Chaari Fourati (CRNS, Tunisia)  
1570531119: Social Weak-Tie Assisted Cross-domain Short Video Recommendation, Xichen Wang, Chen Gao, Jingtao Ding, Yong Li and Depeng Jin (Tsinghua University, P.R. China)  
1570527087: Deep Convolutional Neural Network with Multi-Task Learning Scheme for Modulations Recognition; Omar Mossad; Mustafa ElNainay; Marwan Torki (Alexandria University, Egypt)  

<table>
<thead>
<tr>
<th>Session Title</th>
<th>Heterogeneous Network Mechanisms (WSNs Symp.)</th>
<th>ThM-6: Room: 17-Fevrier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session Chair</td>
<td>Haidar Safa (AUB, Lebanon)</td>
<td></td>
</tr>
</tbody>
</table>

1570530574: Enhancing Energy Efficiency in Wireless Heterogeneous Networks Using Coordinated Multipoint and eNB Parameters Tuning, Narjes Lassoued (ENIG, Tunisia); Boujnah Noureddine (Waterford Institute of Technology, TSSG, Tunisia); Ridha Bouallegue (Ecole Supérieure des Communications de Tunis, Tunisia)  
1570530464: Improving Channel Utilization of LoRaWAN by using Novel Channel Access Mechanism, Shahzeb Ahsan and Syed Ali Hassan (National University of Sciences and Technology, Pakistan); Ahsan Adeel (DeepCI, UK); Hassaan Khaliq Qureshi (National University of Sciences and Technology, Pakistan)  
1570528380: Performance Analysis on Fractal Small Cell Networks with MIMO Antennas, Xiaohu Ge; Qiang Li (Huazhong University of Science and Technology, P.R. China); Yonghui Li (University of Sydney, Australia)  
1570527795: Efficient pilot design based on the divide and conquer approach for pilot contamination mitigation in massive MIMO, Maroua Boudaya and Inès Kammoun (ENIS, Tunisia); Mohamed Siala (SupCom, Tunisia)  
1570527720: Centralized Cognitive Radio Based Frequency Allocation for UAVs Communication, Amira Chriki; Haifa Touati (Ensi, Cristal, Tunisia); Hichem Snoussi (Univ. of Tech. of Troyes, France); Farouk Kamoun (Univ. of Manouba, Tunisia)  
1570527696: Channel Estimation for TDD Uplink Massive MIMO Systems via Compressed Sensing, Noura Lahbib (Carthage University, Tunisia); Maha Cherif (Innov’Com Lab, Tunisia); Moez Hizem (SupCom, Tunisia); Ridha R. Bouallegue, B. (Ecole Supérieure des Communications de Tunis, Tunisia)  
1570527478: An Optimized Spatially Cooperative Caching Strategy for Heterogeneous Caching Network, Shubin Zhang, Wen Sun and Jiajia Liu (Xidian University, P.R. China)  
1570527654: Spectrum Occupancy for 802.11a/n/ac Homogeneous and Heterogeneous Networks, Nika Mostahinic; Hazem Refai (Oklahoma University, USA)  

<table>
<thead>
<tr>
<th>Session Title</th>
<th>Intelligent Algorithms for IoT (5G IoT Symposium)</th>
<th>ThM-7: Room: Andalusian</th>
</tr>
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<tr>
<td>Session Chair</td>
<td>Shuangli Wu (Comp. Information Center of Chinese Academy of Sciences, China)</td>
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</table>

1570518914: Hopfield Neural Network-based Fault Location in Wireless and Optical Networks for Smart City IoT, Bohui Wang; Hui Yang; QiuYan Yao; Ao Yu; Tao Hong; Jie Zhang; Kadoch Michel, Mohamed Cheriet  
1570527468: Data Mining and Statistical Analysis on Smart City Services Based on 5G Network, Lei Yu; Qiang Lv; Yonghao Zhang; Hao Li; Peng Yu; Lei Feng; Li Wenjing; Qiu Xue-song  
1570525716: Location Prediction Based on Comment Analysis, Chang Su; Pengfei Wu; Xie Xian-Zhong  
1570527341: A Novel Multipath Mitigation Method for 5G Positioning, Zijie Wang; Rong Ke Liu; Qirui Liu; Yifan Zhang  
1570530822: An access point load-balancing algorithm based on service attribute in wireless network, Kunhong Li; Shanke Huang; Teng Zhang  
1570530848: A scheme of seamless handover in Wireless Communications based on sentinel mechanism, Yanzhi Sun; Yuming Liu; Liqiong Jiang  
1570527525: A Time-compensation TDOA-based Wireless Positioning Method for Multilevel IoT Positioning, Junhua Chen; Tongtong Shi; Yanfei Liu; Shuangli Wu

**LUNCH BREAK** 12:30 – 13:30
Thursday Afternoon Sessions (ThA) — (13:30 - 15:30)

- **Session Title**: Big Data (Big Data Symposium)
  **Session Chair**: Halima Elbiaze (UQAM, Canada)
  **ThA-1**: Room: Lybie

1570518927: A Vibrating Mechanism to Prevent Neural Networks from Overfitting, Jian Xiong; Kai Zhang; Hao Zhang (Tsinghua University, P.R. China)
1570519656: An ANTLR-based Feature Extraction and Detection System for Scratch, Pai Liu; Yan Sun and Hong Luo (Beijing University of Posts and Telecommunications, P.R. China)
1570527545: Business Information Architecture for Big Data and Internet of Things, Mohamed Saifeddine Hadj Sassi (Univ. of Sfax, Tunisia); Faiza Ghozzi (ISIMS, Tunisia); Lamia Chaari (Univ. of Computer Science and Multimedia of Sfax, Tunisia)
1570530111: Embedding Multiple-Step-Ahead Traffic Prediction in Network Energy Efficiency Problem, Abdolkhalegh Bayati; Kim Khoa Nguyen; Mohamed Cheriet (University of Quebec, Canada)
1570530631: High Data Rate Multiband GFDM Over Long-haul Standard Single Mode Fiber Communication, Khalil Issaoui (ENIT, Tunisia); Mhatli Sofien (EPT & SERCOM-Lab, Tunisia); Attia Rabah (École nationale d'ingénieur de Tunis, Tunisia)

- **Session Title**: Routing Protocols & WSN-based Monitoring Systems (WSNs Symp.)
  **Session Chair**: Attahiru Alfa (University of Manitoba, Canada)
  **ThA-2**: Room: Maroc-1

1570527449: Flow-Based Multiple Spectrum Access in Cognitive Wireless Sensor Networks, Haitham Abu Ghazaleh (Tarleton State University, USA); Attahiru Alfa (University of Manitoba, Canada)
1570528422: MOO-SNL: Multi Objectives Optimization for Sensor Network Localization Problem, Badia Bouhdid and Akkari Wafa (University of Manouba, Tunisia); Abdelfettah Belghith (King Saud University, SA)
1570531084: Routing Of Spatio Queries Over IOT Enabled Wireless Sensor Networks, Karim Fathallah (Un. of Carthage, Tunisia); Amine Abid (Nat. School of Computer Science, Germany); Nejib Ben Hadj-Alouane (U. of Tunis El Manar, Tunisia)
1570527878: Cooperative Sensing and Analysis for a Smart Pothole Detection, Khang Nguyen (Telecom SudParis, France & Hue University of Education, Vietnam); Eric Renault (Institut Mines-Telecom SudParis, France)
1570527636: DEEP: Design and Evaluation of an Energy-efficient Wireless Sensor Node for Leak Detection in Water Pipes, Fatma Karray; Mariam Triki (National Engineering School of Sfax, Tunisia); Mohamed Abid (CES-ENIS, Tunisia)
1570538846: Exploiting Energy Efficient Routing protocols for Void Hole Alleviation in IoT enabled Underwater WSN, Muhammad Awais; Nadeem Javaid & Hue University of Education, Vietnam); Muhammad Imran (KSU, SA)

- **Session Title**: Smart Systems (Smrat Cities & Connected communities Symp.)
  **Session Chair**: Ala Alfuqaha, (Hamad Bin Khalifa University, HBKU, Qatar)
  **ThA-4**: Room: Maroc-2

1570530253: Autonomous Living Building: Adapting to Occupant's Behavior, Driss Benhaddou, Farouk Attia (University of Houston, USA); Muhammad Anan (Alfaisal University, Morocco); Lotanna Abuguom (University of Houston, USA)
1570530536: Towards a New Graph-based Occupant Behavior Modeling in Smart Building, Nour Haidar and Tamani Nouredine; Yacine Ghamri-Doudane; Alain Bouju (University of La Rochelle, France)
1570531016: A Fog Computing Architecture for Energy Demand Scheduling in Smart Grid, Samira Chouikhi; Leila Boulahia; Moez Esseghir (University of Technology of Troyes, France)
1570519038: An Attention-Mechanism-Based Traffic Flow Prediction Scheme for Smart City, Xiao Hu, Xin Wei, Yun Gao, Wenzin Zhuang, Mingzi Chen (Nanjing U. of Posts and Telecom, P.R. China); Haibing Lv (ZTE Corporation, P.R. China)
1570527650: An Ad Hoc communication system for an Efficient Milk collection within White Areas, Madoune Robert Seye of Carthage, Tunisia); Christophe Cambier (Sorbonne University, France)

- **Session Title**: System Security (Security Symposium)
  **Session Chair**: Aiman Erbad (Qatar University, Qatar)
  **ThA-6**: Room: 17-Fevrier

1570519540: A rapid detection method for hidden danger points of urban gas pipelines based on identification area, Xie Zhongyu and Wang Zhili (Beijing University of Posts and Telecommunications, P.R. China)
1570523189: Forward-Secure Data Outsourcing Based on Revocable Attribute-Based Encryption, Van Hoan Hoang; Elyes Lehtihet (Oodrive, France); Yacine Ghamri-Doudane (U. of la Rochelle, France)
1570531191: Solving Security Problems in MEC Systems, Zheng Xiao; Mingchu Li (Dalian University of Technology, P.R. China); Yuanfang Chen (Hangzhou Dianzi University & Universite Pierre et Marie CURIE, P.R. China); Mohsen Guizani (QU); Jia Liu; Muhammad Shaikh (Dalian University of Technology, Pakistan)
1570527837: Enhancing Firewall Filter Performance Using Neural Networks, H. Saleous & Z. Trabelsi (UAE Univ., UAE)
## Thursday Afternoon Sessions (ThA) — (16:00 - 18:00)

<table>
<thead>
<tr>
<th>Session Chair</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>Tao Hong (Beihang University, China)</td>
<td>PHY layer for IoT (5G IoT Symposium)</td>
<td>Andalusian</td>
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<tr>
<td>Adel Ben Mnaouer (Canadian University Dubai, UAE)</td>
<td>Energy Efficient Networking for IoT</td>
<td>Lybie</td>
</tr>
<tr>
<td>Amel Meddeh-Makhlouf (University of sfax, Tunisia)</td>
<td>Theory &amp; Applications (SeNTApE Workshop)</td>
<td>Maroc-1</td>
</tr>
</tbody>
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### 15705531034: Enforcing a Risk Assessment Approach in Access Control Policies Management: Analysis, Correlation Study and Model Enhancement, Pietterre Annie Evina (University of Carthage, Tunisia); Faouzi Jaidi & Faten Ayachi (SUPCOM, Tunisia); Adel Bouhoula (Higher School of Communications of Tunis, Tunisia)

### 1570534296: XBAC: A Unified Access Control Model for Heterogeneous Multi-Tenancy Cloud Environments, Meryeme Ayache (U. Mohammed V & ENSIAS, Morocco); Amjad Gawanmeh (Khalifa U., UAE); Jamal Al-Karaki (Abu Dhabi Polytechnic, UAE)

### 1570518527: Deep Learning-Aided Constellation Design for Downlink NOMA, L. Jiang; Xiangming Li; Neng Ye; Aihua Wang

### 1570530407: Raptor Code based on punctured LDPC for Secrecy in Massive MIMO, D. Benzid; M. Kadoch; M. Cheriet

### 1570522272: Scheme for High-rate LDPC Codes Based on Dual-Diagonal Matrix with Girth-6, Yue Hu; Ling Zhao; Ji Li

### 1570518932: LSTM Based Multiple Beamforming for 5G HAPS IoT Networks, Ke Xiao; Chaofei Li; Jianyu Zhao

### 1570520151: Compressed sensing based traffic prediction for 5G HetNets IoT video streaming, Shuangli Wu; Wei Mao; Cong Liu; Tao Hong; Michel Kadoch

### 1570522948: Design of 5G Dual-Antenna Passive Repeater Based On Machine Learning, Tao Tang; Tao Hong; Cong Liu; Weiting Zhao; Michel Kadoch

### 1570518701: Wireless Neural Network: Enabling Neural Computing over Wireless Sensor Network Based on Superposition Transmissions, He Wang; Xiangming Li; Neng Ye; Aihua Wang

### Coffee Break — (15:30 - 16:00)

**Session Title:** Theory & Applications (SeNTApE Workshop)  
**Session Chair:** Amel Meddeh-Makhlouf (University of sfax, Tunisia)  
**Room:** Maroc-1

### 1570529426: Short-range and Long-range Cooperative Communication for Littoral Environment Monitoring, Ismail Bennis; Alain Gaugue; Michel Menard (University of La Rochelle, France)

### 1570527749: Formal Approach for Authorization in Distributed Business Process Related Task Document Role Based Access Control, Nouioua Maroua (University of el Manar, Tunisia); Ali Adel (University of setif, Algeria); Belhassen Zouari (Supcom, University of Carthage, Tunisia)
**Session Title:** Next Generation Networking II (NGSN Symp.)

**Session Chair:** Amal Tmri (Chouaib Doukkali University, Morocco)

**Session Title:** Enabling Techniques for 5G Communications (5G Symp.)

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

**Session Title:** Emerging Technologies for WSNs (WSNs Symp.)

**Session Chair:** Sghaier Guizani (Alfaisal University, SA)

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<thead>
<tr>
<th>Session Title</th>
<th>ThA-11: Room: Maroc-2</th>
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<tbody>
<tr>
<td><strong>Session Title:</strong> Next Generation Networking II (NGSN Symp.)</td>
<td><strong>Session Chair:</strong> Amal Tmri (Chouaib Doukkali University, Morocco)</td>
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<th>Session Title</th>
<th>ThA-13: Room: 17-Fevrier</th>
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<tr>
<td><strong>Session Title:</strong> Enabling Techniques for 5G Communications (5G Symp.)</td>
<td><strong>Session Chair:</strong> Hamid Sharif (University of Nebraska-Lincoln, USA)</td>
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<th>Session Title</th>
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<td><strong>Session Title:</strong> Emerging Technologies for WSNs (WSNs Symp.)</td>
<td><strong>Session Chair:</strong> Sghaier Guizani (Alfaisal University, SA)</td>
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**Session Chair:** Amal Tmri (Chouaib Doukkali University, Morocco)

**Session Title:** Enabling Techniques for 5G Communications (5G Symp.)

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

**Session Title:** Emerging Technologies for WSNs (WSNs Symp.)

**Session Chair:** Sghaier Guizani (Alfaisal University, SA)

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

**Session Title:** Emerging Technologies for WSNs (WSNs Symp.)

**Session Chair:** Sghaier Guizani (Alfaisal University, SA)
1570527844: A New Optimal Deployment Model of Internet of Things Based on Wireless Sensor Networks, Monia Hamdi; Faten Hajjej; Ridha Ejbali; Mourad Zaied (University of Gabes, Tunisia)

1570527812: Self-Adaptive Management of SDN Distributed Controllers for Highly Dynamic IoT Networks, Intidhar Bedhief; Meriem Kassar (U. Tunis El Manar, TN); Taoufik Aguili (ENIT, TN); Luca Foschini and Paolo Bellavista (U. of Bologna, Italy)


1570524761: An Intelligent Deterministic D2D Communication in Narrow-band Internet of Things, Ali Nauman (Yeungnam University, Korea); Muhammad Ali Jamshed (University of Surrey, UK); Yazdan Qadri; Rashid Ali; Yousaf Bin Zikria and Sung Won Kim (Yeungnam University, Korea)

1570530838: An IoT and Blockchain-Based Multi-Sensory In-Home Quality of Life Framework for Cancer Patients, Md Abdur Rahman (University of Prince Mugrin, SA); Md Mamunur Rashid and Stuart Barnes (King's College London, UK); M. Shamim Hossain (King Saud University, SA); Elham Hassanain (University of Prince Mugrin, SA)

DINNER (On your Own)

TECHNICAL PROGRAM
IEEE IWCMC 2019
Tangier, Morocco, June 24th — 28th, 2019

Friday, June 28th, 2019

IWCMC 2019 Organizing Committee Evaluation Meeting

Excursion (On Your Own)

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The IWCMC 2020 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/2020. Prospective authors are invited to submit original technical papers—up to 6 pages of length, using the EDAS link: https://edas.info/XXX to various IWCMC 2020 Symposia and Workshops as listed in the conference website for possible publication in the IWCMC 2020 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:

- Wiley Journal of Wireless Communications and Mobile Computing (WCMC)
- The International Journal of Sensor Networks (IJSNet)
- The International Journal of Autonomous and Adaptive Communications Systems (IJAACS)
- KSII Transactions on Internet and Information Systems
- 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 2020
- Paper Acceptance Notification: 30 March 2020
- Camera-ready Paper Submissions: 30 April 2020
- Registration Deadline for Authors: 30 April 2020

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