ComNet '2018

7th International Conference on
Communications and Networking

Hammamet, TUNISIA, November 1st – 3rd, 2018

PROGRAM

General Co-Chairs
Sami Tabbane    Mounir Frikha

Program Chair
Zied Choukair

Local Arrangements Chair
Mounir Frikha

Publication Chair
Mohamed Siala

Organization Committee
Amel Haji, Asma Ben Letaifa, Maha Jebalia, Nihed Bahria, Nouha Samet, Olfa Ben Ahmed
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 am - 9 am</td>
<td>Opening ceremony</td>
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<tr>
<td>9 am - 10 am</td>
<td><strong>Tutorial session</strong></td>
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<td>Visible Light Communications: From Theory to Industrial Standardization</td>
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<td><em>Murat Uysal</em></td>
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<td>Professor and Department Head Dept. of Electrical and Electronics Engineering, Ozyegin University, Istanbul, Turkey</td>
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| 10 am - 10:50 am | **Session 1: Physical communications**  
|              | Throughput Maximization with Optimum Energy Allocation for ARQ Retransmission Protocol  
|              | *Leila Nasraoui, Leila Najjar, Mohamed Siala*                        |
|              | Derivation of The Analytical Expression of The SIR in OFDM/OQAM Systems Using The Multiplicative Approach  
|              | *Wafa Khrouf; Mohamed Siala, Fatma Abdelkefi*                        |
| 11 am - 11:30 am | Coffee break                                                        |
| 11:30 am - 12:30 am | **Session 2: CCN, Cloud and IMS**  
|              | CCNFLOW: Content-Centric Networking Managed by OpenFlow Controller  
|              | *Rihab Jmal, Lamia Chaari*                                          |
|              | IMS Predictive Collaborative Service Discovery Approach              
|              | *Armielle Noulapeu Ngaffo, Zied Choukair, Walid El Ayeb*            |
|              | Iterative Water Filling Power Allocation And Relay Selection Based On Two-hop Relay in 5G/Heterogeneous Ultra Dense Network  
|              | *Amel Khodmi, Sonia Ben Rejeb, Zied Choukair*                       |
| 12:30 am - 2 pm | Lunch                                                                |
| 2 pm - 3 pm   | **Session 3: Mesh and Optical networks**  
|              | Handover Decision Algorithm in Femtocell Long Term Evolution Networks  
|              | *Maroua Ben Gharbia; Ridha R. Bouallegue,* B.                        |
|              | A Finite Volume Variational Approach for 3D Mesh Smoothing           
|              | *Sondes Sidaoui, Anis Kacem, Sadok El Asmi*                         |
|              | Near-Optimal Detection of TAST Codes Over Multimode Optical Fiber Channels  
|              | *Oussama Damen; Ghaya Rekaya-Ben Othman*                            |
|              | Survey on Physical Layer Security in Optical Wireless Communication Systems  
|              | *Mohanad Obeed; Anas M. Salhab; Mohamed-Slim Alouini; Salam A. Zummo* |
| 3 pm - 6 pm   | Cultural and touristic program                                       |
8.30 am - 9.30 am  
**Tutorial session**  
**Cellular IoT: Challenges, Solutions and Opportunities**  
Zaher Dawy  
*Professor of Electrical and Computer Engineering, American University of Beirut (AUB)*

9:30 am – 10:30 am  
**Session 4: Physical communications** Chair: Mohamed Siala  
**Relaying in NOMA Systems with Energy Harvesting in Nakagami-m Fading**  
Nouha Dahi, Noureddine Hamdi  
**A Matching-Theoretic Approach to User-Association and Channel Assignment in Downlink Multi-Cell NOMA Networks**  
Mohammed W. Baidas, Zainab Bahbahani, Emad Atsus  
**Optimization of a Scalable and Adaptable Diversity/Multiplexing Trade-Off in 28 GHz Systems**  
Halima Bergaoui, Yosra Mlayah, Fethi Tlili, Fatma Rouissi

10:30 am - 11 am  
**Coffee break**

11 am – 12:30 am  
**Session 5: VANETs & Security** Chair: Manzoor Ahmed Khan  
**A New Trust based Routing Protocol for VANETs**  
Amira Kchaou, Ryma Abassi, Sihem Guemara El Fatmi  
**Security analysis in Enhanced LoRaWAN duty cycle**  
Norhane Benkahla Nour, Boutheyna Belgacem, Mounir Frkha  
**Blockchain Challenges and Security Schemes: A Survey**  
Sirine Sayadi, Sonia Ben Rejeb, Zied Choukair  
**Towards the Optimization of a Ticket-based Authentication Scheme for VANETs**  
Ons Chikhaoui, Aida ben Chehida Douss, Ryma Abassi, Sihem Guemara

12:30 am - 2 pm  
**Lunch**

2 pm – 3 pm  
**Tutorial session**  
**Autonomous Driving - A Look into the Future**  
Manzoor Ahmed Khan

3 pm - 4:00 pm  
**Session 6: Application Layer** Chair: Adel Ben Mnaouar  
**An overview on RPL Objective function enhancement approaches**  
Ines Kechiche, Ines Bousmina, Abdelaziz Samet  
**Stream weight estimation in vocal recognition frontend for mobile devices**  
Djamel Addou, Soumia Belabbase , M Boudraa  
**Short Survey on Clustering Techniques for RRH in 5G networks**  
kmar Thaalbi, Med Taher Missaoui, Nabil Tabbane
<table>
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| 8.30 am - 10 am | **Tutorial session**  
Advances on Optical Wireless Communications  
*Med slim Alouini*  
King Abdullah University of Science and Technology (KAUST) | |
| 10am-10:30am | **Coffee break**                                                      |                                                                         |
| 10:30 am-11:10 am | **Tutorial session**  
Leveraging UAVs in Cellular Network Planning: Challenges and Potential  
*Ali Ghrayeb*  
Professor of Electrical and Computer Engineering Texas A&M University at Qatar | |
| 11:15 am - 12 am | **Tutorial session**  
*Adel ben Mnaouar*  
Professor in the Dept., of Computer Engineering and Computational Science of the Canadian University Dubai | |
| 12am - 12:30 am | **Awards ceremony & Closing ceremony**                                |                                                                         |
| 12:30 am - 2 pm | **Lunch**                                                            |                                                                         |