

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, Kaouther Hassine



DAY 1 : Thursday, November 1st, 2018

8:30 am - 9 am

Opening ceremony

9 am -10 am

Tutorial session

Visible Light Communications: From Theory to Industrial Standardization

Murat Uysal

Professor and Department Head Dept. of Electrical and Electronics Engineering, Ozyegin University, Istanbul, Turkey

10 am-10:50 am

Session 1: Physical communications

Chair: Zied Choukair

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

11am -11:30 am

Coffee break

11:30 am-12:30 pm

Session 2: CCN, Cloud and IMS

Chair: Sami Tabbane

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 pm -2 pm

Lunch

2 pm - 3 pm

Session 3: Mesh and Optical networks

Chair: Murat Uysal

Handover Decision Algorithm in Femtocell Long Term Evolution Networks

Maroua Ben Gharbia, Ridha Bouallegue.

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

DAY 2 : Friday, November 2nd, 2018

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, Nouredine Hamdi

A Matching-Theoretic Approach to User-Association and Channel Assignment in Downlink Multi-Cell NOMA Networks

Mohammed W. Baidas, Zainab Bahbahani, Emad Alsusa

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

Session 5: VANETs & Security

Chair: Manzoor Ahmed Khan

11 am -12:30 pm

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 Frikha

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 pm - 2pm

Lunch

2 pm – 3 pm

Tutorial session

Autonomous Driving - A Look into the Future

Manzoor Ahmed Khan

3pm - 4:00 pm

Session 6: Application Layer

Chair: Adel Ben Mnaouar

An overview on RPL Objective function enhancement approaches

Ines Kechiche, Ines Bousnina, 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

DAY 3 : Saturday, November 3rd, 2018

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 pm

Tutorial session

Cross-Layer Design based Network Support for Energy-Constrained, IoT- Enabled, Wireless Sensor Networks

Adel ben Mnaouar

Professor in the Dept., of Computer Engineering and Computational Science of the Canadian University Dubai

12pm - 12:30 pm

Awards ceremony & Closing ceremony

12:30 pm - 2 pm

Lunch