

2018 Seventh International Conference on Communications and Networking (ComNet 2018)

**Hammamet, Tunisia
1 – 3 November 2018**



**IEEE Catalog Number: CFP1808I-POD
ISBN: 978-1-5386-5652-5**

**Copyright © 2018 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP1808I-POD
ISBN (Print-On-Demand):	978-1-5386-5652-5
ISBN (Online):	978-1-5386-5651-8
ISSN:	2163-663X

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

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.....1

Leila Nasraoui, Leila Najjar, Mohamed Siala

Derivation of The Analytical Expression of The SIR in OFDM/OQAM Systems Using The Multiplicative Approach.....6

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.....12

Rihab Jmal, Lamia Chaari

IMS Predictive Collaborative Service Discovery Approach.....17

Armelle 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.....25

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.....31

Maroua Ben Gharbia, Ridha Bouallegue.

A Finite Volume Variational Approach for 3D Mesh Smoothing.....37

Sondes Sidaoui, Anis Kacem, Sadok El Asmi

Near-Optimal Detection of TAST Codes Over Multimode Optical Fiber Channels.....42

Oussama Damen; Ghaya Rekaya-Ben Othman

Survey on Physical Layer Security in Optical Wireless Communication Systems.....48

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

Outage Performance in Cooperative NOMA Systems with Energy Harvesting in Nakagami-m Fading.....53

Nouha Dahi, Nouredine Hamdi

A Matching-Theoretic Approach to User-Association and Channel Assignment in Downlink Multi-Cell NOMA Networks.....57

Mohammed W. Baidas, Zainab Bahbahani, Emad Alsusa

Optimization of a Scalable and Adaptable Diversity/Multiplexing Trade-Off in 28 GHz Systems.....65

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.....69

Amira Kchaou, Ryma Abassi, Sihem Guemara El Fatmi

Security analysis in Enhanced LoRaWAN duty cycle.....75

Norhane Benkahla Nour, Boutheyna Belgacem, Mounir Frikha

Blockchain Challenges and Security Schemes: A Survey.....82

Sirine Sayadi, Sonia Ben Rejeb, Zied Choukair

Towards the Optimization of a Ticket-based Authentication Scheme for VANETs.....89

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 pm

Session 6: Application Layer

Chair: Adel Ben Mnaouar

An overview on RPL Objective function enhancement approaches.....93

Ines Kechiche, Ines Bousnina, Abdelaziz Samet

Short Survey on Clustering Techniques for RRH in 5G networks.....97

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
