

IEEE ComNet 2023

November 1st- 3rd 2023

PROGRAM

SUP'COM
Higher School of Communication of Tunis

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Ecole Supérieure de l'Informatique et des Télécommunications

IEEE

IEEE Tunisia
Section
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DAY1

Wednesday, November 1st, 2023

14 pm

Opening session

Conference chairs talks

Keynotes Talk Session

14:30 pm –
15:30 pm

On the Role of Freshness and usefulness of Information in Future Networks

Mohamed Assad

Centrale Supelec, University of Paris-Saclay

Break

Session 1

Deep Learning – Machine Learning

Chair : Sami Tabbane

16:00pm-
17:30pm

A Novel Incremental Deep Learning Technique for QoS Interpretation and QoE Prediction for Top Social (*)
Marwa Salhi

Predicting sentiment analysis for Web users with a deep learning approach
Nawres Abdelwahed; Asma Ben Letaifa; Azer Ksour

Automated Malware Detection Based on a Machine Learning Algorithm
Almaha Adel Almuqren; Mounir Frikha; Abdullah Albuali

Exploring the Impact of Speech AI: A Comparative Analysis of ML Models on Arabic Dataset
Mohamed Khaled Ben Mna; Asma Ben Letaifa

Contactless Breathing Waveform Detection Through RF Sensing: Radar vs. Wi-Fi Techniques
Umer Saeed; Dingchang Zheng; Behzad Ali Shah; Syed Shah; Sana Ullah Jan; Jawad Ahmad; Qammer H Abbasi; Syed Aziz Shah

DAY 2

Thursday, November 2nd, 2023

Keynote Talk Session

9 am – 10 am

What will Wi-Fi 8 be? A primer on IEEE 802.11bn Ultra High Reliability

Giovanni Geraci

Telefonica Research - Univ. Pompeu Fabra Barcelona

Break

Session 2

Cloud/Edge/Intent Networking

Chair : Asma BenLetaifa

10:30am -
11:30 pm

A Trust-based algorithms for securing IoT clusters in an edge computing environment
Nadia Kammoun, aida Ben Chehida, Rym Abbassi

Traffic prediction of a mobile EDGE network using time series models: case of MTN Benin
Mahugnon Géraud Azehou Pazou; Régis Hontinfinde; Raïssa Tchibozo Houessou; Aurel Agbodoyetin; Jean-Louis Comlan Fannou; Christian Djidjoho Akowanou

Context Aware Life Cycle for Intent-Based Networking Systems
Yosra Abassi; Nabil Tabbane

Session 3 : ML & Health Care

Chair : Nabil Tabbane

11:30am -
12:30 am

A Comparative Study of Machine Learning Techniques for Early Prediction of Prostate cancer
Mowafaq Salem Alzboon; Mohammad Al-Batah; Muhyeeddin Alqaraleh; Ahmad Abuashour; Ahmad Fuad Bader

A Comparative Study of Machine Learning Techniques for Early Prediction of Diabetes
MoMowafaq Salem Alzboon; Mohammad Al-Batah; Muhyeeddin Alqaraleh; Ahmad Abuashour; Ahmad Fuad Bader

Lung cancer detection and classification using CNN and image segmentation
Dorsaf Hrizi

Lunch Break

Panel

2 pm - 3:30 pm

Toward 6G

Moderator : Mohamed Slim Alouini

Panelist : *Marc Dacier*
Giovanni Geraci
Mohamed Assad
Mohamed Taher Missaoui
Ibrahim Arfaoui

Break

Session 4 : Iot/RF/HPA systems

Chair : Mohamed Siala

4 pm – 5pm

Rectenna Circuits for Energy Harvesting: Recent Trends and developments for IoT Deployment

Marwa Ejbali; Mouhamed Hayouni; Fethi Choubani

Performance versus Complexity Study for Joint Polar Coded HPA Systems

Moez Hizem

DAY 3

Friday , November 3rd , 2023

Keynote Talk Session

9am – 10am

No need for armies of bots, use RESIPs infrastructure instead

Marc Dacier

KAUST Univeristy, Saudi Arabia

Break

Session 5 : 5G, Communication systems & Power Consumption

Chair : Zied Choukair

10:30am -
12 am

5G vs Wifi6 Downlink Power Consumption Comparison for Teleworking Use Case

Mohamed Yassine Hentati; Tijani Chahed; Philippe Ciblat; Marceau Coupechoux; Sameh Najeh

Adaptive UCB MAB Algorithm for Optimizing Relay Selection in Narrowband Power Line Communication

Wided Belhaj sghaier

Multi-user generic channel equalization and sources separation for MIMO communication systems

Chouaib Farhati; Souhaila Fki; Abdeldjalil Aïssa-El-Bey; Fatma Abdelkefi

Machine Learning: A new way for material resources orchestration in a large-scale V-RAN (*)

Mihia Kassi; Soumaya Hamouda

Closing Ceremony