

PROGRAM











## DAY1 Tuesday, November 5<sup>th</sup>, 2024

2:30 pm

**Opening session** 

Conference chairs talks

**Keynotes Talk Session** 

3 pm – 4 pm

### Towards connecting the remaining unconnected

Mohamed Slim Alouini

King Abdullah University of Science and Technology (KAUST)

**Break** 

#### Session 1 AI and big data for networks and digital communications

**Enhancing Smart Handover Using Machine Learning in 5G Networks (\*)** 

16:30pm-17:30pm Houssem Eddine Rezgui, Mimoun Hamdi, Fethi Tlili

Hybrid DF and SIR forwarding strategy in cooperative communications and higher order modulations

Slim Chaoui (\*)

Enhancing QoS for Dynamic Load Balancing in 6G Networks using SDN and Deep Reinforcement Learning

Mohamed Amine Hechmi

## DAY 2 Wednesday, November 6<sup>th</sup>, 2024

#### **Keynote Talk Session**

9 am - 10 am

# Machine Learning Over Networks: From Fundamentals to Applications Tamer El Batt

The American University in Cairo (AUC)

#### Session 2 AI and big data applied to cybersecurity

10am – 10:45am MalPID: Malicious Prompt Injection Detection Dataset for Large Language Model based Applications Sihem Omri, Manel Abdelkader, Mohamed Hamdi

 $\label{lem:convolutional} \textbf{Graph Convolutional Network} \, (\textbf{GCN}) \, \textbf{Approach for Fingerprint Security}$ 

Hedi Boukamcha, Olfa Ben Ahmed

Break

#### Session 3 AI and big data applied to cybersecurity (2)

11:15am -12:15 am Security Evaluation of a Novel MAC Based on Hash Functions and 6D Chaotic Maps

Omessead Ben Mbarak

The Role of Computer Forensics in Network Security Incident Handling: A Systematic Review (\*)

Aminah M. Algahtani

Virtual Cluster Security Challenges and Solutions in Cloud Computing Environments (\*)

Almaha Adel

#### **Lunch Break**

Session 4	AI and big data applied to cybersecurity (3	3)
DC991011 T	At and big data applied to cybersecurity (.	U)

2:30 pm – 4:30 pm

Malware Detection based on Machine Learning Methods, Analysis, and Tools (\*) Almaha Adel

IoT Data Privacy and Security Issues in Terms of Management, Organizational, Technological and Environmental (\*)

Jawaher Alshehri, M.M Hafizur Rahman

A Secure Multi-Hop communication framework for Nomadic Devices in LoRaWAN networks

Rafik Louati, Mariem Thaalbi, Nabil Tabbane

**Securing Edge AI in Healthcare: A Comprehensive Architectural Analysis** 

Yassmine Ben Dhieb, Mohamed Ould-Elhassan, Neder Karmous, Ridha Bouallegue

## DAY 3 Thursday, November 7<sup>th</sup>, 2024

Keynote Talk Session

9am - 10am

From 5G to 6G: Cybersecurity of Future Networks

Roberto Di Pietro

King Abdullah University of Science and Technology (KAUST)

**Break** 

Session 5 Services and applications AI and big data

10:30am -12 am Planning for Penetration Testing in Small & Medium Enterprises: Challenges and Best Practices (\*)

Jawaher Alshehri, Almaha Alhamed, Mounir Frikha

SISO-LoRa Wireless Communication Aided By Reconfigurable Intelligent Surfaces Ali Kotti

A new framework for failure classification in 5G network core

Damos Ayobo Abongo, Asma Kehila, Safa Cherif, Rahma Bouraoui, Zaineb Labidi

## **Closing Ceremony**