

1<sup>ère</sup> Édition

**6G**

ENJEUX, INNOVATIONS ET NOUVEAUX DÉFIS

*École de printemps*

18-19 AVRIL  
**2025**

Espace de conférence  
**El Ghazala Technopark**



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Le laboratoire MEDIATRON de l'École Supérieure des Communications de Tunis (SUP'COM) organise la 1ère Édition de l'École de Printemps, dédiée aux réseaux futurs de la 6G.

Cet événement réunira des chercheurs, des industriels et des experts tunisiens et internationaux (provenant de pays tels que l'Égypte, la France, la Turquie, le Maroc, etc), qui présenteront les dernières tendances technologiques et les avancées récentes concernant la 6G. Les thématiques abordées incluront des domaines tels que : sub-THz, Visible Light Communication, Intelligence Artificielle, Quantum Computing, et Machine Learning, ainsi que la cybersécurité. L'impact de la 6G sur la société et l'industrie sera également au cœur des discussions.

## COMITÉ D'ORGANISATION

Prof. Fatma ABDELKEFI,  
SUP'COM Tunis

Dr. Hajer TOUNSI,  
SUP'COM Tunis

Dr. Maroua NOUIOUA,  
SUP'COM Tunis

Dr. Wiem ABDERRAHIM,  
ENIG Gabes

Dr. Asma BEN LETAIFA,  
SUP'COM Tunis

Dr. Mariem THAALBI,  
TBS Tunis

Dr. Sonia BEN REJEB, ISI  
Tunis

Dr. Amel HAJI, ISG  
Bizerte

Dr. Ghayet El Mouna  
ZHIOUA, ISI Tunis

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Doctorant	200 <sup>dt</sup>
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Industriel	400 <sup>dt</sup>

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# VENDREDI 18 AVRIL 2025

8:30-09:00

ACCEUIL ET INSCRIPTION

## SESSION 1 : INNOVATIONS POUR LES RÉSEAUX DE DEMAIN

9:00-9:45

**Towards connecting the remaining unconnected**

Prof. Mohamed-Slim ALOUINI, KAUST

9:45-10:30

**Foundations for Next G: From RF Energy Harvesting to Edge Intelligence**

Prof. Tamer ELBATT, AUC Egypt

10:30-11:00

Pause café

## SESSION 2 : 6G ET LES SECTEURS INDUSTRIELS

11:00-12:00

**Table Ronde**

- M. Mohamed taher Missaoui, SUP'COM
- M. Ibrahim ARFAOUI, Huawei
- M. Zied ELLOUZ, Oreedoo
- Mme. Houda CHIHI, Tunisie Télécom
- Mme Olfa JAMMELI, ANF
- M. Maher ALIBI, Nokia MEA

12:00-12:45

**Shaping the 6G future - From vision to action**

M. Maher ALIBI, Nokia MEA

12:45-13:45

Pause déjeuner et session posters

## SESSION 3 : COMMUNICATIONS OPTIQUES ET SANS FIL POUR LA 6G ET LES TECHNOLOGIES FUTURES

13:45-14:30

**Large Language Models and 6G**

Prof. Samson LASAULCE, Khalifa University, Abu Dhabi, UAE

14:30-15:15

**Optical wireless communication channel sounding**

Prof. Abderrahmen TRICHILI, Oxford, UK

15:15-15:45

Pause café et session posters

15:45-16:30

**mmWave for mobile devices**

Dr. Mohamed CHRAITI, Sabanci University, Istanbul

16:30-17:00

**Leveraging Non-Terrestrial Networks for Global 6G Connectivity**

Dr. Wiem ABDERRAHIM, ENIG Gabès

# SAMEDI 19 AVRIL 2025

## SESSION 4 : SÉCURITÉ ET CONFIDENTIALITÉ DANS LES RÉSEAUX 6G

9:00-9:45

**Trust in Next Generation Networks: Industrial Internet of Things**  
Prof. Abderrahim BENSLIMANE, Avignon University France

9:45-10:30

**Physical Layer Security Provision in 6G Networks Using Post-Quantum Encryption Techniques**  
Prof. Walid ABDELLAH, Borj El Amri Aviation School

10:30-11:15

Pause café

11:15-11:45

**Homomorphic encryption models for 6G networks**  
Prof. Mohamed HAMDY, Sup'Com Tunis

11:45-12:30

Clôture & distribution des attestations de participation

# INTERVENANTS

## Mohamed Slim ALOUNI



Mohamed Slim ALOUNI is a Distinguished Professor of Electrical and Computer Engineering at King Abdullah University of Science and Technology (KAUST), Saudi Arabia, where he also holds courtesy appointments in Applied Mathematics, Computational Sciences, and Statistics. A founding faculty member at KAUST, he has led the Communication Theory Lab since 2009. Prof. Alouini is an expert in wireless communication systems, focusing on their modeling, design, performance evaluation, and optimization. He holds degrees from École Nationale Supérieure des Télécommunications, Université Pierre & Marie Curie, Georgia Tech, and Caltech, with a Ph.D. in Electrical Engineering. His research includes developing integrated space-air-ground networks and cost-effective wireless networks for underserved areas. Prof. Alouini is a Fellow of multiple prestigious organizations, including IEEE, OSA, and WWRF, and has received numerous awards, such as the IEEE Communication Society's Recognition Award and the 2020 IEEE Vehicular Technology Society James Evans Avant-Garde Award. He is also a Fellow of the African Academy of Sciences and a Member of both the European Academy of Sciences and the Academia Europaea.

## Samson LASAULCE



Samson LASAULCE has been a Chief Research Scientist in Khalifa University, Abu Dhabi, UAE, since Sep. 2023. He is the holder of the first chair in the UAE whose theme is "Native AI in 6G networks". He is also a CNRS Director of Research with CRAN at Nancy (joint lab between CNRS and University of Lorraine). He has been the holder of the RTE Chair on the "Digital Transformation of Electricity Networks". He has also been a part-time professor with the Department of Physics at École Polytechnique (2002-2014). From 1999 to 2006, he has been teaching image processing (classification, recognition, pattern analysis, compression,...) and telecommunications from 2006 to 2014. Before joining CNRS he has been working for five years in private R&D companies (Motorola Labs and Orange Labs). Dr Lasaulce has been a consultant for several companies such as TIL, the Lagrange Research Center, EDF, Orange, and Renault. His current research interests lie in large language models for optimization and telecoms, transfer learning, model compression, distributed optimization, optimal control, and game theory. Dr Lasaulce has been serving as an editor for several international journals such as the IEEE Transactions on Signal Processing. He has organized more than 40 scientific events and 10 of them as a general chair. He has been supervising 23 Ph.D students, 7 of them have been awarded for their works. He is the co-author of 210+ publications, including 60+ journal papers, 60+ invited papers, 40+ invited talks, 13 patents, 10+ book chapters, and 5 complete books including the books "Game Theory and Learning for Wireless Networks: Fundamentals and Applications" (2011) and "Game Theory and Deep Learning: Fundamentals and Applications" (2025). Dr Lasaulce is also the recipient of several awards including the SEE Blondal Medal.

## Tamer ELBATT



is a distinguished academic and researcher currently serving as a Professor in the Computer Science and Engineering Department at The American University in Cairo (AUC). He earned his B.S. and M.S. degrees in Electrical Engineering and Computer Engineering from Cairo University and his Ph.D. in Electrical and Computer Engineering from the University of Maryland. With extensive experience in industry R&D at leading U.S. companies, including HRL Labs and Lockheed Martin, Dr. ElBatt transitioned to academia, holding faculty positions at Cairo University and Nile University, where he also directed the Wireless Intelligent Networks Center. His research interests span wireless networks, mobile computing, and IoT systems, leading to over 150 publications and several patents. Dr. ElBatt has held key roles in prestigious IEEE and ACM conferences and editorial boards, contributing to the advancement of communication technologies. He has received notable awards, including the Google Faculty Research Award and Egypt's State Incentive Award in Engineering, and he is a Senior Member of IEEE.

## Abderrahmen TRICHILLI



received his diplôme National d'Ingénieur in wireless networks and communications, and PhD degree in Information and Communication Technology from the Engineering School of Communication of Tunis (Tunisia) in 2013 and 2017, respectively. In February 2018, he joined KAUST University as a Postdoctoral Fellow at CEMSE. Trichilli was awarded a 2017 SPIE Optics and Photonics Education Scholarship for his potential long-range contributions to the optics, photonics and other related fields. In 2019, he attended the 69th Lindau Nobel Laureate Meeting (Physics) and he was awarded the Multiply Marie-Sklodowska-Curie fellowship. Currently, he is a UK IC Royal Academy of Engineering Fellow at the Department of Engineering Science of the University of Oxford. His work focuses on indoor optical wireless communication and free space optics.

## Wiem ABDERRAHIM



received her Doctoral Degree in Information and Communication Technologies from the Higher School of Communications of Tunis, Carthage University, Tunisia in 2017. In 2019, she joined King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia as postdoctoral fellow within the Computer, Electrical and Mathematical Sciences and Engineering (CEMSE) Division. Since 2023, she holds the position of assistant professor at Ecole Nationale d'Ingénieurs de Gabès (ENIG) and she is a research fellow at the MEDIATRON Lab within the Ecole Supérieure des communications de Tunis (Sup'Com), Carthage University, Tunisia. Wiem is interested in working on top-notch projects on 6G, non-terrestrial networks (NTN) integration, edge computing, network function virtualization, software defined networks, network slicing .... to implement carrier-grade characteristics (e.g. high reliability and low latency).

# INTERVENANTS



## Walid ABDALLAH

is a telecommunications professor in high military education at the Borj El Amri Aviation School, under the Ministry of National Defense, Tunisia. He earned his PhD in Information and Communication Technologies from the Higher School of Communication of Tunis (Sup'Com), University of Carthage in 2012. He also holds a Diploma of Engineer in Telecommunications from Sup'Com (1997) and a Master's Degree from the National School of Engineers of Tunis, University of El Manar (2002). Dr. Abdallah has extensive professional experience in the telecommunications sector. From 1997 to 2001, he worked for Tunisia Telecom, the national telecommunications operator. He then joined the National Digital Certification Agency (NDCA, Tunisia), where he served from 2001 to 2005. Currently, he is an active member of the Communication Networks and Security Research Lab, focusing on optical and wireless networks. His research interests span advanced telecommunications technologies, network security, and next-generation communication infrastructures.



## Abderrahim BENSLIMANE

Professor of Computer-Science at the Avignon University/France since 2001. He is IEEE ComSoc Vice-Chair of Multimedia-TC. He is past Chair of the ComSoc CISTC. He is Area Editor of Security in IEEE IoT journal, editorial member of IEEE Transaction on Multimedia, IEEE Wireless Communication Magazine, IEEE System Journal, Elsevier Ad Hoc Networks, Springer Wireless Network Journal. He is co-founder and serves as General-Chair of the IEEE WIMob since 2005."



## Mohaned CHRAITI

Mohaned CHRAITI is an Assistant Professor in Electronics Engineering at Sabanci University, starting in July 2022. He earned his Ph.D. in Electrical and Computer Engineering from Concordia University in 2020 and was a Postdoctoral Researcher at MIT (2020-2022). He has held visiting researcher positions at Nokia Bell Labs (2018) and Texas A&M University (2016, 2019). He has received multiple awards, including the Governor General's Gold Medal, the Valedictorian title at Concordia University, and the NSERC Postdoctoral Grant. His research on wireless communications and 6G New Radio has secured over a million dollars in funding, with current leadership of three projects totaling 350 thousand euros.



## Ibrahim ARAFAOUI

Ibrahim ARAFAOUI, who is an ICT engineer; got his ICT engineering diploma from supcom 2013. He has been working at Huawei Tunisia since 2014. He participated in several projects related to 3G and 4G network expansion and development in Tunisia. Since 2018, Ibrahim became a solution manager in Huawei, promoting different ICT solutions to Tunisian operators and companies, specifically 5G solution, Cloud platform, Mobile money and Entreprises Private line solutions... Ibrahim is the wireless department director since 2022, and a main contributor for 5G preparation in Tunisia with three operators, ministry and regulator. Ibrahim is also the official speaker for Huawei in Major international events, such as MWC, MBBF, Gitex since 2019.



## Zied ELLOUZ

Zied ELLOUZ is a highly experienced telecommunications engineer specializing in radio network planning and optimization. With over a decade of expertise in 2G, 3G, 4G, and 5G technologies, he has played a key role in network rollouts, upgrades, and performance optimization at Ooredoo TN. He holds a Telecommunications Engineering degree from the Higher School of Communications of Tunis (Sup'Com) promotion 2009 and has obtained multiple certifications in wireless networking and radio planning. As a principal expert and certified trainer, he has contributed significantly to the advancement of radio network strategies and the professional development of engineers in the field. Fluent in Arabic, French, and English, Zied continues to drive innovation in mobile communications