



**IEEE Signal Processing Society (SPS), Madras Chapter**

organizes

**IEEE SPS Distinguished Industry Speaker Program**

**(Virtual Event)**

**On**

**6G: Current Research Trends and Open Challenges**

**by**

**Professor Dr. Merouane Debbah**

**Technology Innovation Institute,**

**Abu Dhabi,**

**UAE**

**Abstract**

The standardization for 5G wireless systems is maturing and researchers around the world have already started to look at beyond the 5G systems. Although the next G gossip is at a premature stage, this talk aims to provide an overview of the vision, challenges and key enabling technologies envisioned by the wireless community. The talk will mostly focus on the fundamental technologies and will discuss potential research directions to meet the requirements of next generation wireless systems

**Event co-organized by**

**Sri Sivasubramaniya Nadar College of Engineering**

**Kalavakkam -603110**

**Date & Time:**

**Tuesday, Dec 15, 2021, 6.30 PM - 7.30PM**

**[Meeting link](#)**

**Please join by clicking the above link.**

Dr.S. Salivahanan, Chairman  
**IEEE SPS - Madras Chapter**

## 6G: Current Research Trends and Open Challenges

### Speaker Biography – Prof. Merouane Debbah



**Dr. Mérouane Debbah** is Chief Researcher at the Technology Innovation Institute in Abu Dhabi. He is an Adjunct Professor with the Department of Machine Learning at the Mohamed Bin Zayed University of Artificial Intelligence. He received the M.Sc. and Ph.D. degrees from the Ecole Normale Supérieure Paris-Saclay, France. He was with Motorola Labs, Saclay, France, from 1999 to 2002, and also with the Vienna Research Center for Telecommunications, Vienna, Austria, until 2003. From 2003 to 2007, he was an Assistant Professor with the Mobile Communications Department, Institut Eurecom, Sophia Antipolis, France. In 2007, he was appointed Full Professor at CentraleSupélec, Gif-sur-Yvette, France. From 2007 to 2014, he was the Director of the Alcatel-Lucent Chair on Flexible Radio. From 2014 to 2021, he was Vice-President of the Huawei France Research Center. He was jointly the director of the Mathematical and Algorithmic Sciences Lab as well as the director of the Lagrange Mathematical and Computing Research Center. Since 2021, he is leading the AI & Telecom Systems center at the Technology Innovation Institute. He has managed 8 EU projects and more than 24 national and international projects. His research interests lie in fundamental mathematics, algorithms, statistics, information, and communication sciences research. He is an IEEE Fellow, a WWRF Fellow, a Euraspip Fellow, an AAIA Fellow, an Institut Louis Bachelier Fellow and a Membre émérite SEE. He was a recipient of the ERC Grant MORE (Advanced Mathematical Tools for Complex Network Engineering) from 2012 to 2017. He was a recipient of the Mario Boella Award in 2005, the IEEE Glavieux Prize Award in 2011, the Qualcomm Innovation Prize Award in 2012, the 2019 IEEE Radio Communications Committee Technical Recognition Award and the 2020 SEE Blondel Medal. He received more than 20 best paper awards, among which the 2007 IEEE GLOBECOM Best Paper Award, the Wi-Opt 2009 Best Paper Award, the 2010 Newcom++ Best Paper Award, the WUN CogCom Best Paper 2012 and 2013 Award, the 2014 WCNC Best Paper Award, the 2015 ICC Best Paper Award, the 2015 IEEE Communications Society Leonard G. Abraham Prize, the 2015 IEEE Communications Society Fred W. Ellersick Prize, the 2016 IEEE Communications Society Best Tutorial Paper Award, the 2016 European Wireless Best Paper Award, the 2017 Euraspip Best Paper Award, the 2018 IEEE Marconi Prize Paper Award, the 2019 IEEE Communications Society Young Author Best Paper Award, the 2021 Euraspip Best Paper Award, the 2021 IEEE Marconi Prize Paper Award as well as the Valuetools 2007, Valuetools 2008, CrownCom 2009, Valuetools 2012, SAM 2014, and 2017 IEEE Sweden VT-COM-IT Joint Chapter best student paper awards. He is an Associate Editor-in-Chief of the journal *Random Matrix: Theory and Applications*. He was an Associate Area Editor and Senior Area Editor of the *IEEE TRANSACTIONS ON SIGNAL PROCESSING* from 2011 to 2013 and from 2013 to 2014, respectively. From 2021 to 2022, he serves as an IEEE Signal Processing Society Distinguished Industry Speaker.