



TEXAS A&M
UNIVERSITY at QATAR

Physical Layer Solutions for Beyond 5G

Ertugrul Basar

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Light lunch will be served

The first commercial 5G wireless networks have been already deployed at certain countries while the first 5G compatible handsets are expected to be available during 2019. Although the initial stand-alone 5G standard has been completed during 2018, researchers are relentlessly exploring the potential of emerging technologies for later releases of 5G. The aim of this seminar is to present a number of promising physical layer technologies for beyond 5G, including spatial modulation (SM), orthogonal frequency division multiplexing with index modulation (OFDM-IM), and media-based modulation (MBM), which stand out as prominent members of the index modulation family. We will also present our most recent findings on the large intelligent surface (LIS)-based communication schemes and discuss potential future research directions.



Ertugrul Basar, PhD,
IEEE-Senior Member

Associate Professor,
Electrical and Electronics
Engineering
Koç University, Istanbul,
Turkey
Director, Communications
Research and Innovation
Laboratory (CoreLab)
Editor, IEEE TCOM, IEEE
CL and Elsevier PHYCOM

Hosted by the Electrical & Computer Engineering Program

For more information:

Noha Ezzat | noha.ezzat@qatar.tamu.edu | Phone +974 4423 0152