



# Physical Layer Solutions for Beyond 5G

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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.



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