IEEE AP-S STUDENT BRANCH CHAPTER

in association with

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organizing a

DISTINGUISHED LECTURE TALK

on

ADVANCES IN ANTENNA SYSTEMS FOR FUTURE WIRELESS TERMINALS

ABSTRACT

In this talk, technology trends and the features of 5G wireless standards will be presented. Then some of the major enabling technologies for 5G such as massive MIMO (MaMi) and mm-wave bands will be highlighted along with their features and applications. Challenges in the design of antenna systems for these enabling technologies will be discussed after in terms of complexity, size, etc. Specifications and design guidelines will follow. Several metallic based mm-wave MIMO antennas, dielectric-resonator antennas (DRAs) and reconfigurable MIMO Antennas will be discussed, as well as several MaMi arrays with beam-steering capabilities will be presented. The concept and modeling of multi-functional antenna systems and integrated 4G/5G handset antenna solutions will be shown with real examples.

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02:30 PM (IST)

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