



IEEE ComSoc Bangalore organizes workshop on

WiFi 6 and Beyond

Over the last 25 years, Wi-Fi has ascended from a technology that enabled computers to wirelessly transfer data at 2Mbps to winning a spot in Maslow's pyramid as a basic human need. WLAN standard has continuously advanced itself by introducing amendments such as 802.11n, 802.11ac, and 802.11ax. This series of talks will focus on the key features and benefits of the latest generation of Wi-Fi, also known as Wi-Fi 6 based on 802.11ax. There will also be a discussion on the implications of FCC's decision to open up 1.2 GHz of spectrum in the 6 GHz band for unlicensed use, setting the stage for Wi-Fi 6E. The future road map of WLAN is getting shaped by the new evolving standard, IEEE 802.11be (loosely referred to as WiFi 7), whose board goals and key technologies also will be highlighted.

Unlike 802.11ax based WiFi 6, where the focus was on high efficiency, the new group for 802.11be standardization is called as extreme high throughput (EHT) initiative. One of the special features of EHT so far has been the exploration of multi-link transmissions which can leverage the multiple band possibilities in a WLAN product. Such a method plans to leverage the recently announced 6 GHz bands for unlicensed usage.

Finally, there will be a discussion on the implementation and verification of WLAN standard compliant devices using standard tool like Matlab®. WLAN Toolbox can generate configurable physical layer waveforms for IEEE 802.11ax/ac/ad/ah and 802.11b/a/g/n/j/p standards. It also provides various ready-to-use components, such as channel coding, modulation, spatial stream mapping, channel models, MIMO receivers, etc., and reference designs for link level and system level simulations.

Virtual Workshop

01 Aug 2020
(Saturday)

10am –13:15pm
(Mark your calendar)

Registration Fees

Students: Free
ComSoc members: Free
IEEE members: INR. 100
Non-members: INR. 200

<https://in.explara.com/e/wifi-6-and-beyond>

Contact for more information
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SCHEDULE

Time	Title of talk	Speaker
10:00-10:10am	Opening Remarks	Aloknath De CTO Samsung, and ComSoc Chair & Puneet Mishra , Section Chair
10:10-10:15am	Introduction of Speakers	Ganesan Thiagarajan CTO, MMRFIC Technology Pvt. Ltd.
10:15-11:10am	Wi-Fi (R)Evolution: Wi-Fi 6 and Beyond	Sundar Sankaran VP of Engg., Ruckus Networks, CA
11:15-12:10pm	Wi-Fi 7/802.11be: A peek into the future of WLANs	Srikanth Subramanian CKO, NanoCell Networks
12:15 -1:10pm	Model, Simulate and Test WLAN using MATLAB	Uvaraj Natarajan Sr. Application Engr., Mathworks Inc.
1:10-1:15pm	Closing Remarks	ComSoc ExeCom

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