

Reinventing Wi-Fi: Technologies Supporting the Applications & Trends of the Future

Speaker: Dr. Carlos Cordeiro

Abstract

Wi-Fi is an outstanding success story. Although it has been around for decades, it continues to evolve by adding new functionalities, improving performance, and delivering new services. It is difficult to imagine going one day without Wi-Fi. In this talk, we will discuss the latest generation of Wi-Fi technology, namely, Wi-Fi 6. Wi-Fi 6 is a revolution compared to any of the previous Wi-Fi generations because it introduces capabilities that are essential to support a much denser number of devices per access point, best-in-class security, greater capacity, and lower latency. We will cover some performance characteristics of Wi-Fi 6, provide a market update, and conclude with future directions towards Wi-Fi 7.

Biography:

Dr. Carlos Cordeiro is the CTO of wireless connectivity at Intel Corporation, where he is responsible for next-generation wireless connectivity technology strategy, standards, ecosystem engagements, and regulatory. In the Wi-Fi Alliance, he is a member of the Board of Directors and serves as its Technical Advisor. Due to his contributions to wireless communications, Dr. Cordeiro received several awards including the prestigious Intel Inventor of the Year Award in 2016, the 2017 IEEE Standards Medallion, the IEEE Outstanding Engineer Award in 2011, and the IEEE New Face of Engineering Award in 2007. Dr. Cordeiro is the co-author of two textbooks on wireless published in 2006 and 2011, has published over 100 papers in the wireless area alone, and holds over 250 patents. He has served as Editor of various journals including the IEEE Journal on Selected Areas in Communications, the IEEE Transactions on Wireless Communications, the IEEE Wireless Communication Letters, and the ACM Mobile Computing and Communications Review journal. Dr. Cordeiro is an IEEE Fellow.