



5G COMMUNICATION TECHNOLOGIES AND NETWORKS

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ABSTRACT

The vast demand for wireless data transmission needs to be satisfied. Dramatic growth in wireless communications has created a shortage in the available radio spectrum. Wireless communications services for cellular phones, television, and broadband Internet access must compete with existing users in radar, government communications, scientific observations, and environmental monitoring. In the past few decades, mobile wireless technologies have experienced various generations of technology, namely from 1G to 4G. Current research in mobile wireless technology concentrates on the advanced implementation of 5G technology. Currently, The 5G term has yet to be officially used. 5G technology integrates all the wireless network types, thus gaining the needed network infrastructure (CR network). This paper is helpful for a researcher working in the wireless technology field.

KEYWORDS: *Evolution from 1G-4G, 5G Network Architecture, Need for 5G.*

