

Wireless Network and Its Application

Authors : Henok Mezemr Besfat, Haftom Gebreslassie Gebregwergs

Abstract : wireless network is one of the most important mediums of transmission of information from one device to another devices. Wireless communication has a broad range of applications, including mobile communications through cell phones and satellites, Internet of Things (IoT) connecting several devices, wireless sensor networks for traffic management and environmental monitoring, satellite communication for weather forecasting and TV without requiring any cable or wire or other electronic conductors, by using electromagnetic waves like IR, RF, satellite, etc. This paper summarizes different wireless network technologies, applications of different wireless technologies and different types of wireless networks. Generally, wireless technology will further enhance operations and experiences across sectors with continued innovation. This paper suggests different strategies that can improve wireless networks and technologies.

Keywords : wireless sensor, wireless technology, wireless network, internet of things

Conference Title : ICECECE 2026 : International Conference on Electrical, Computer, Electronics and Communication Engineering

Conference Location : Vancouver, Canada

Conference Dates : September 23-24, 2026