

# Abstract

Wide area personal network is discussed thoroughly. WPAN can be categorized into four parts Bluetooth, ZigBee, Wi-Fi and Ultra Wide Band (UWB). Bluetooth and ZigBee wireless technologies are a specification for short-range, low-cost, and small form factor that enables user-friendly connectivity among portable and handheld personal devices, and provide connectivity of these devices to the Internet. It is found from the literature, that ZigBee and Bluetooth are used for short range while Wi-Fi and UWB have a larger range as compared to Bluetooth and ZigBee. A comparison of short-range wireless technologies is presented. Different parameters i.e. data coding efficiency, transmission time, transmission range and frequency, power consumption and bit error rate of WPAN are plotted and discussed.