Abstract

Radio propagation models play an important part in the deployment of any cellular network as they directly affect the performance, coverage and cost. The goal of this research is to present radio propagation models for the next generation networks (5G), specifically in indoor environments. Furthermore, a comparison between different radio propagation models has been made to find out the model that gives least path loss in particular. Comparison between two propagation models Alpha Beta Gamma (ABG) and Close In free space distance model with path loss exponent (CIF) is made for indoor environment. Selection of particular propagation model is crucial as operation at higher frequency bands increases the noise level thus requiring higher SNR (signal to noise Ratio) values. The simulation results show that ABG has less path loss than CIF.