**Abstract**

The recent times has seen a massive improvement and continuous research in the field of wireless technology. The application of Multiple input multiple output technology has been gradually increasing in antenna system. The utilization of MIMO technology leads to a significant improvement in performance. The major advantage of MIMO technology is spatial multiplexing and spatial diversity. In other words, by using the additional antennas MIMO technology can send and receive parallel data streams simultaneously, thereby, making an effective use of bandwidth. This is termed as spatial multiplexing.