Abstract

This report describes my method of increasing the capacity of any wireless network through the application of MIMO technology. The Shannon capacity of wireless networks has been calculated in different instances by MATLAB. Using Simulink, the various parameters of a wireless Rayleigh Multipath fading channel are calculated. This is done in order to experimentally prove the advantages of a MIMO system in any wireless system. Also to find the right balance before which adding more antennas will not make a difference.
References

- Rappaport Theodore, S. Wireless Communication, Pearson Publications

Index Terms

Computer Science Wireless

Keywords

Diversity Tradeoff Mimo Antenna