Abstract

Fractional Frequency Reuse is an interference mitigation technique well suited for OFDMA system where the cell region is partitioned into two: inner cell region and outer cell region. In this paper we proposed an interference mitigation technique in LTE OFDMA femtocell system using Fractional Frequency Reuse (FFR) also system in order to improve performance of the system resource allocation is used. Using FFR scheme, femtocells chooses the sub-bands under the macrocell allotted frequency band that are not used in the macrocell sub-region to avoid interference. System simulation are done to evaluate and compare the effects of changing inner cell shape and selects the optimal size as well as optimal frequency allocation...
between inner and outer regions with key target to maximize throughput and user satisfaction. Simulation results show that the proposed scheme enhances the throughput especially for cell edge users.

References

- P. Vishnupriya, "Mitigation Of Co-Channel Interference In Long Term Evolution Network..."


Index Terms

Computer Science

Networks

Keywords

Od-ffr 3gpp 4g Hetnets Femtocells Ofdm Ofdma Ffr