Abstract

This work investigates an uplink multiple access technique with Interleave Division Multiple Access using Random Interleaving and Extended Typical Urban (ETU) channel model. The crucial requirement is a better Bit-Error Rate performance of the proposed system. The article analyzes and compares the performance of proposed system, taking different block lengths and a different number of subscribers, against that SUI. The simulation results show that with an increase in block length, the performance of random access block interleaving with the SUI channel we see that SUI performs better then AWGN channel.

References

joint lattice decoding for the multiple-access relay channel," 2014 IEEE Globecom Workshops (GC Wkshps), Austin, TX, 2014, pp. 924-929.


Index Terms

Computer Science

Communications
Keywords

Random access block interleaving, ETU, Block length, BER