Abstract

The Intersymbol Interference (ISI) is a common problem in high data rate communication. In OFDM transmission technique ISI is a common problem. So, Guard time length (GT) which is implemented as Cyclic Prefix (CP) to mitigate Intersymbol Interference (ISI) and to preserve orthogonality among OFDM subcarriers, plays a key parameters in OFDM. The guard time length is sufficiently greater than channel delay spread. Conventional OFDM system uses a fix
GT length. This technique, however, degrades the overall spectral efficiency as well as consumes transmitter energy proportional to the length of the guard time. In this paper, the overall system performance and packet error rate (PER) are slightly improved as function of the guard time length.

References


Index Terms

Computer Science Wireless Communication

Keywords
Isi Gt Cyclic Prefix Wimax Opnet (optimized Network Engineering Tools) Modeler

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