Abstract

As in the present scenario, the progression technology is looming towards the challenges of the present and revolutionary requirements; the interest in faster frequency hopping rates to scrutinize the performance of channel in the presence of AWGN has been heightened. The focus of formulation of this manuscript is the analytical behavior of fast frequency hopping style in the occurrence of AWGN using two linear combination schemes, currently in practice in communication world. The frequency hopping (FH) constitutes a powerful spread spectrum technique, historically used for combating intention of jamming or interference. These linear combination schemes are equal gain combiner (ECG) and selective gain combiner (SC). The performance regarding to Bit Error Rate (BER) will be investigated in order to choose the best possible scheme from available ones.

References

- Tetsuo Mabuchi, Ryuji Kohno, and hideki Imai, "Multiuser detection Scheme based on canceling Cochannel Interference for MFSK/FH-SSMA System", IEEE Journal on
selected areas in communication, vol. 12, May 1994.

**Index Terms**

Computer Science  
Signal Processing
Keywords