

SECURITY OF COGNITIVE RADIO USING ANTI-JAMMING CODING TECHNIQUE

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Abstract

Cognitive radio is a new generation wireless technology that aims at providing seamless communication with full spectrum utilization but securing it against malicious attacks is of major concern. In this paper we are reviewing previously proposed anti-jamming coding technique for secure communication between cognitive radio users. We have used MATLAB for designing CR's module and also designed short code for piecewise coding and then we have checked the performance of piecewise code for avoiding the jamming. Through our results we have found that piecewise coding offers better performance under low jamming rate and also has the advantage of parallel decoding. The performance results demonstrate that piecewise coding provides reliable transmission with fast response to packet loss.

Keywords : cognitive radio; anti-jamming coding technique; piecewise coding.