

عنوان مقاله:

Using Convolutional Codes in Underlay Cognitive Radios: Performances and BER Bounds

محل انتشار:

اولین کنفرانس بین المللی دستاوردهای نوین پژوهشی در مهندسی برق و کامپیوتر (سال: 1395)

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خلاصه مقاله:

In this paper, bit error rate (BER) of the secondary cognitive system is studied using three different receivers: I) soft Viterbi decoder only, II) optimal MMSE detector only and III) combining soft Viterbi decoder and MMSE detector. The results show that the combined optimal MMSE detector and soft Viterbi decoder in the cognitive receiver removes the effects of the strong interference substantially at the low signal-to-noise ratio (SNR) region.

کلمات کلیدی:

Cognitive radio system; optimal estimator; secondary user; primary user; interference; bit error rate

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