Abstract

A cognitive Radio is a current area of research for modern day communication systems design in which spectrum availability is becoming scarcity. In the current scenario various spectrum sensing techniques have been evolved, but till today energy detection remains the most common amongst of the all. In this paper the receiver operating characteristics of the receiver is being studied using the spectrum sensing method in energy detection. The receiver operating characteristic of the receiver is an important parameter to identify the spectrum availability in the cognitive environment and is being studied under the parameters of the probability of detection which is measured with the adaptive threshold values and samples values under various signal to noise ratio.

References

Receiver Operating Characteristic for Variable Threshold and Sample Values using Energy Detection for Secondary user in Cognitive Environment

Multidisciplinary Sciences and Engineering, May 2012.


**Index Terms**

Computer Science  
Communications

**Keywords**