Abstract

The electromagnetic radio spectrum is a natural resource. Effective Utilization of this natural resource is a Challenging task in Present Day Wireless Communication. Cognitive Radio is an emerging trend in wireless communication to Combat for spectral scarcity. Cognitive radio is an intelligent wireless communication system that is aware of its surrounding environment and uses the methodology of learning, and understanding from the environment and adapting to it. Advanced signal processing techniques are used in Cognitive Radio Network to achieve this intelligence. Spectrum Sensing is one of such a signal processing to identify spectrum holes which can be temporarily used without interfering Primary User. Every cognitive radio receiver is incorporated with Spectrum Sensing. There are various existing techniques to detect the spectrum of which some widely used are presented in this thesis.

References

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**Index Terms**

Computer Science

Signal Processing

**Keywords**

Frequency Spectrum