

## Spectrum Sensing Measurement Using Gnu Radio And Usrp

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(QoS) set at P d of 90%, it is found out that the required sensing time for our GNU Radio USRP based CR system is equal to 31.59ms.

Keywords - Spectrum Sensing; Probability of Detection; Probability of False Alarm ; GNU Radio; USRP . I. INTRODUCTION A recent spectrum occupancy measurement shows that

Spectrum Sensing Measurement using GNU Radio and USRP ...

Spectrum Sensing Measurement Using GNU Radio and USRP Software Radio Platform. Spectrum utilization can be significantly improved by adopting Cognitive Radio (CR) technology. Such radios are able...

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GNU radio based innovative approach has been designed for detection of transmitted live video using energy based spectrum sensing of CR and implemented on SDR platform. Transmitted signal is modulated with GMSK and energy detector is implemented successfully with averaging blocks.

SDR Based Energy Detection Spectrum Sensing in Cognitive ...

In cognitive radio, the secondary users are able to sense the spectral environment and use this information to opportunistically access the licensed spectr Experimental spectrum sensing measurements using USRP Software Radio platform and GNU-radio - IEEE Conference Publication

Experimental spectrum sensing measurements using USRP ...

The spectrum sensing can be analysed using GNU radio system with USRP device. The authors analysed the spectrum range for settled data transfer capacity over an observation time window with period...

(PDF) Energy detection sensing based on GNU radio and USRP ...

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GitHub - avian2/spectrum-sensing-methods: Experiments with ...

This paper focuses on an experimental investigation of spectrum sensing using GNU radio and Universal Software Radio Peripheral (USRP) board. In the most related works, the method of energy detection is widely used for experiments on spectrum sensing, in which the energy amplitude of the received signal is the sole parameter to determine a channel's status.

Joint energy-and-bandwidth spectrum sensing with GNU radio ...

An Universal Software Radio Peripheral platform with GNU-Radio is employed for implementation purpose. We analyzed the performances of both spectrum sensing methods by measuring the detection...

(PDF) Experimental Spectrum Sensing Measurements using ...

In this paper, the energy detection spectrum sensing mechanism has been investigated using GNU Radio and USRP N210 operating at a centre frequency of 825 MHz and within a bandwidth of 20MHz. An important point to note is that the bandwidth under consideration is kept fixed and thus, the delay associated with tuning of centre frequency is absent.

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The proposed model was implemented and tested using GNU Radio software and USRP units. Our results show that the dynamic selection of the threshold based on measuring the noise level present in the received signal during the detection process increases the probability of detection and decreases the probability of false alarm compared to the ones of energy detection with a static threshold.

Spectrum sensing: Enhanced energy detection technique ...

Experimental spectrum sensing measurements using usrp software radio platform and gnu-radio A Nafkha, M Naoues, K Cichon, A Kliks 2014 9th International Conference on Cognitive Radio Oriented Wireless ... , 2014

Krzysztof Cicho - Google Scholar

Abstract—Spectrum sensing allows cognitive radio systems to identify unused portions of the radio spectrum and then use them while avoiding interferences to the primary users. Energy detection is one of the most used techniques for spectrum sensing because it does not require any prior information about the characteristics of the primary user ...

Spectrum Sensing: Enhanced Energy Detection Technique ...

Spectrum sensing measurement using gnu radio and usrp software radio platform RA Rashid, MA Sarijari, N Faisal, SKS Yusof, NH Mahalin, ACC Lo Proc. of The Seventh International Conference on...

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