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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

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## using GNU Radio and USRP ...

Spectrum sensing is one of the main tasks of cognitive radio, it decides whether the spectrum band is occupied by the primary or not. One of the techniques of spectrum sensing is energy detection... Energy Detection Spectrum Sensing Measurement Using GNU Radio and USRP B200 at Wi-Fi

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Corpus ID: 15106178. Spectrum sensing measurement using GNU radio & USRP software radio platform

@inproceedings{Lo2011SpectrumSM, title={Spectrum sensing measurement

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using GNU radio & USRP software radio platform}, author={Anthony Lo and Mohd Adib Sarijari and Norshiela Fisal and Nur Hija Mahalin and Rozeha A. Rashid and Sharifah Kamilah Syed Yusof}, year={2011} }

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Universal software radio peripheral (USRP) and GNU Radio is employed to measure the received RF power, while similar measurements are carried out using R&S spectrum analyzer for validation.

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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.

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## **SDR Based Energy Detection Spectrum Sensing in Cognitive ...**

Showing spectrum sensing using the script `usrp_spectrum_sense.py` listed under `gnuradio/examples/uhd`. Also its shown how to vary the parameters to get desired results. Its a very powerful script.

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## **GNURADIO : Spectrum sensing with USRP part-1**

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...

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

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

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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 ...**

The model was implemented using GNU

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radio software and USRP units and was tested in real-world scenarios. Energy detection, autocorrelation, and correlation-based Euclidian Distance techniques were used for sensing these frequency channels ranging from 825 MHz to 5.8 GHz.

## **Wideband Spectrum Sensing: A**



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## **Bayesian Compressive Sensing ...**

Published on Mar 15, 2014 In the experiment, we have shown the use of GNU Radio in spectrum sensing. We first sense a white spectrum (unused spectrum) and observe the power level. We then transmit...

## **Spectrum Sensing using GNU Radio**

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In this paper, we investigate sensing performance implemented on real-time testbed of GNU Radio and USRP Software Defined Radio (SDR) communication platform operating at 2.48 GHz with a bandwidth of 4 MHz. Energy detector utilizing 1024 FFT bin is the sensing mechanism used in the

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## **Spectrum sensing measurement using GNU radio & USRP ...**

Lack of unallocated spectrum and increasing demand for bandwidth in wireless networks is forcing new devices and technologies to share frequency bands. Spectrum sensing is a key

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enabler for frequency sharing and there is a large body of existing work on signal detection methods. However a unified methodology that would be suitable for objective comparison of detection methods based on ...

**A methodology for experimental evaluation of signal ...**

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sensing/methods.py. Python module with implementations of several spectrum sensing methods.

sensing/siggen.py. Python module with test signals that can be programmed into a Rohde&Schwarz vector signal generator. sensing/signals.py. Functions for calculating various signal samples. These are used for simulations.

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

We use the default native (non-decimated) sample rate of 1MHz, and an FFT size of  $\frac{3}{4}$  MHz. This was automatically trimmed by the `usrp_spectrum_sense.py` script (GNU

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Radio) to remove distortion at the edges of the FFT range. The script was modified so that the artificial DC components introduced by the USRP SDRs are automatically removed.

### **Spectrum Sensing using USRP SDRs and Convolutional Neural ...**

Abstract—Spectrum sensing allows

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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 ...



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## **Spectrum Sensing: Enhanced Energy Detection Technique ...**

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A snapshot of the GNU radio receiver

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model with ED and SP-CAF detector blocks. Full size image. For the hardware part, we use a USRP N210 motherboard as the radio-frequency interface with a WBX daughterboard (50- to 2,200-MHz receiver) and a wide band antenna to perform spectrum sensing tests.

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