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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;

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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
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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
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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
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SDR Based Energy Detection
Spectrum Sensing in Cognitive ...
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(PDF) Energy detection sensing

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methods: Experiments with ...

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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

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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

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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...

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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

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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.

IMPLEMENTATION OF ENERGY

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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

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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.

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energy detection technique ...
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measurements using usrcp
software radio platform and gnu-
radio A Nafkha, M Naoues, K
Cichon, A Kliks 2014 9th

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International Conference on
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... , 2014

Krzysztof Cichoń - Google Scholar
Abstract—Spectrum sensing
allows cognitive radio systems to
identify unused portions of the

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Using GNU Radio and USRP 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

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Energy Detection Technique ...
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