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~~Paul's Security Weekly~~

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\u0026 analyze
frequency hopping
signals | Bluetooth
example How To Build
an FM Receiver with
the USRP in Less Than
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Part 1: Intro to GNU
Radio (Part One) from
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the spectrum Analyzer
in Ableton live GNU

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Radio \u0026amp; RTL

SDR FM Spectrum

Analyzer Eigen Values

Based Energy Detection

in Cognitive Radio srp

GSM Spectrum Sensing

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Campaigns for

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Frequency Hopping
Spread Spectrum in Un-
Coordinated CR

Introduction to the
ADALM-PLUTO SDR
~~Spectrum Sensing / 4~~
~~Channels - GNU Radio~~
~~+ USRP Part 2~~

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Measurement Using
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(QoS) set at P d of 90%,
it is found out that the
required sensing time

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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

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Measurement using
GNU Radio and USRP

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Software Radio
Platform. Spectrum
utilization can be
significantly improved
by adopting Cognitive
Radio (CR) technology.
Such radios are able...

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Measurement Using
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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

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Detection Spectrum

Sensing Measurement

Using GNU Radio and

USRP B200 at Wi-Fi

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Energy Detection

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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

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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

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opportunistically access
the licensed spectr

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sensing measurements

using USRP Software

Radio platform and

GNU-radio - IEEE

Conference Publication

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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 ...
Spectrum sensing method experiments

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and implementations

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Measurement

version.
GitHub - avian2/spectr
um-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

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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

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Sensing

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

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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

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fixed and thus, the delay associated with tuning of centre frequency is absent.

Radio And Usrcp

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OF ENERGY
DETECTION
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The proposed model
was implemented and

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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

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to the ones of energy
detection with a static
threshold.

Using Gnu

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

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International

Conference on
Measurement
Cognitive Radio
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Oriented Wireless ... ,
Radio And Usrcp
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

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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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Enhanced Energy
Detection Technique ...

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radio and usrp software
radio platform RA

Rashid, MA Sarijari, N
Fisal, SKS Yusof, NH
Mahalin, ACC Lo Proc.
of The Seventh
International
Conference on...

This book covers

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advances in system,
control and computing.

This book gathers
selected high-quality

research papers
presented at the

International

Conference on

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Control and Computing

(AISCC 2020), held at

MNIT Jaipur during

February 27 – 28, 2020.

The first part is

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advances in systems and it is dedicated to applications of the artificial neural networks, evolutionary computation, swarm intelligence, artificial immune systems, fuzzy system, autonomous and multi-agent systems, machine learning, other intelligent systems and related areas. In the second part, machine

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learning and other intelligent algorithms for design of control/control analysis are covered. The last part covers advancements, modifications, improvements and applications of intelligent algorithms.

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0254, constitutes the refereed proceedings of the International Conference on

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Science, ICIEIS 2011, held in Kuala Lumpur, Malaysia, in November 2011. The 210 revised full papers presented together with invited papers in the 4 volumes were carefully reviewed

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and selected from numerous submissions. The papers are organized in topical sections on e-learning, information security, software engineering, image processing, algorithms, artificial intelligence and soft computing, e-commerce, data mining, neural networks, social networks, grid

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computing, biometric technologies, networks, distributed and parallel computing, wireless networks, information and data management, web applications and software systems, multimedia, ad hoc networks, mobile computing, as well as miscellaneous topics in digital information and communications.

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In this book, experts from academia and industry present the

latest advances in scientific theory relating to applied

electromagnetics and examine current and emerging applications particularly within the fields of electronics, communications, and computer technology.

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The book is based on presentations delivered at APPEIC 2014, the 1st Applied

Electromagnetic Usrp International

Conference, held in Bandung, Indonesia in December 2014. The conference provided an ideal platform for researchers and specialists to deliver both theoretically and

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practically oriented contributions on a wide range of topics relevant to the theme of nurturing applied electromagnetics for human technology. Many novel aspects were addressed, and the contributions selected for this book highlight the relevance of advances in applied electromagnetics to a

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variety of industrial engineering problems and identify exciting future directions for research. And Usrcp

This book constitutes the thoroughly refereed post-conference proceedings of the 4th International ICST Conference on e-Infrastructure and e-Services for Developing

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Countries,

AFRICOMM 2012,
held in Yaounde,
Cameroon, in

November 2012. The
24 revised full papers
presented were carefully
reviewed and selected
from numerous
submissions. The papers
cover a wide range of
topics in the field of
information and
communication

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infrastructures and are

grouped in topical

sections on: e-

Infrastructure, e-

Services, e-Society, e-

Health, and e-Security.

Because it makes the

distribution and

transmission of digital

information much easier

and more cost effective,

multimedia has emerged

as a top resource in the

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priority for all
professional fields that
currently use
multimedia practices for
distributing digital data.

The Handbook of
Research on
Multimedia Cyber
Security provides
emerging research
exploring the theoretical
and practical aspects of
current security
practices and techniques

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within multimedia
information and
assessing modern
challenges. Featuring
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book is ideally designed
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network administrators,

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professionals, educators,
and students seeking
current research on
developing strategies in
multimedia security.

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field is evolving rapidly
in order to keep up with
society ' s demands. As
such, it becomes
imperative to research
and report recent

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reference source for the
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networks, and wireless

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book is ideally designed

for engineers,

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This book contains the latest research work

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presented at the
International
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Systems (I3CS 2020)
held at North-Eastern
Hill University (NEHU),
Shillong, India. The
book presents original
research results, new
ideas and practical
development
experiences which

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concentrate on both theory and practices. It includes papers from all areas of information technology, computer science, electronics and communication engineering written by researchers, scientists, engineers and scholar students and experts from India and abroad.

This book constitutes

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the refereed proceedings
of the 5th International
Workshop on Multiple
Access

Communications,
MACOM 2012, held in
Maynooth, Ireland, in
November 2012. The
13 full papers and 5
demo and poster papers
presented were carefully
reviewed and selected
from various
submissions. The papers

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are organized in topical sections on network coding, handling interference and localization techniques at PHY / MAC layers, wireless access networks, and medium access control.

This Edited Volume gathers a selection of refereed and revised papers originally

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presented at the Third
International
Symposium on Signal
Processing and

Intelligent Recognition
Systems (SIRS ' 17),
held on September
13 – 16, 2017 in
Manipal, India. The
papers offer stimulating
insights into biometrics,
digital watermarking,
recognition systems,
image and video

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Processing, signal and speech processing, measurement, pattern recognition, Using Gnu Radio and Usrp machine learning and knowledge-based systems. Taken together, they offer a valuable resource for all researchers and scientists engaged in the various fields of signal processing and related areas.

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