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RADIO NETWORKS

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University of Trento

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been proposed as a
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Cooperative spectrum sensing in cognitive radio networks ...

Cognitive radio can play an important role in improving energy efficiency in wireless networks, because from the green perspective, spectrum is a natural

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resource which should not be wasted but be shared. In this article, we propose two energy-efficient and time-saving one-bit cooperative spectrum sensing schemes,...

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Spectrum Detection in
Cognitive Radio Systems
Using Wavelet Fusion

Abstract: To find spectrum opportunities for secondary (unlicensed) users, cognitive radio Spectrum detection is essential.

An Efficient Spectrum Allocation Mechanism for Cognitive ...

Abstract— Cooperative

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spectrum sensing has proven its efficiency to detect spectrum holes in cognitive radio network (CRN) by combining sensing information of multiple cognitive radio users . In this paper, we study different fusion schemes that can be implemented in fusion center.

Cognitive radio -

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Wikipedia

A cognitive radio wireless sensor network is one of the candidate areas where cognitive techniques can be used for opportunistic spectrum access.

Research in this area is still in its infancy, but it is progressing rapidly. The aim of this study is to ...

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We can classify the techniques according to

spectrum sensing stage optimization into three types: 1) Energy efficient local sensing, 2) energy efficient reporting, and 3) energy efficient decision

Number of sensing users and the sensing time are significant parameters of the local sensing energy consumption.

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Sensing In Cognitive ...

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Sensing for Cognitive

Radio Networks: 10.4018

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04: One of the main

problems of Cooperative

Spectrum Sensing (CSS)

in cognitive radio

networks is the high

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energy consumption.

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Sensing for ...

In this paper, the spectrum and energy efficiency of cooperative spectrum prediction (CSP) in cognitive radio networks are investigated. In addition, the performance of cooperative spectrum

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prediction is evaluated using a hidden Markov model (HMM) and a multilayer perceptron (MLP) neural network.

Data Fusion Schemes for
Cooperative Spectrum
Sensing in ...

the spectrum sensing and use the channel even if the SNR value is lower than a specified threshold value.

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Keywords—Cognitive
Radio, MIMO, Sensor
Network, Spectrum
Sensing, Energy
Efficiency, SNR
, Capacity I:

INTRODUCTION

Recently, in Wireless
Communication,
Cognitive Radio (CR)
has been adapted for
using the unused
spectrum bands
effectively[1].

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Energy-efficient
Cooperative Spectrum
Sensing for ...

Applications of spectrum-sensing cognitive radio include emergency-network and WLAN higher throughput and transmission -distance extensions. The evolution of cognitive radio toward cognitive networks is underway;

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the concept of cognitive networks is to intelligently organize a network of cognitive radios.

VSMC MIMO: A Spectral Efficient Scheme for Cooperative

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Energy-efficient Cooperative Spectrum Sensing for Cognitive Radio Sensor Networks

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Energy and Throughput

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In this thesis, the spectrum and energy efficiency of cooperative spectrum. prediction (CSP) in cognitive radio networks are investigated. In addition, the performance. of CSP is evaluated using a hidden Markov model (HMM) and a multilayer perceptron. (MLP)

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neural network.

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cooperative spectrum
sensing schemes for ...

Cooperative spectrum
sensing is a key technique
for cognitive radio
networks, in which
cooperative user
selection is vital to reduce
overhead and ensure
high detection
performance.

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Prediction for Improved
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interferences while maintaining efficient spectrum usage. We argue that a non-cooperative node can cause harmful interference to its neighbors and hence can reduce the overall spectrum usage. Fig.1

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Classification of
spectrum sharing in xG
networks based on
architecture, spectrum
allocation behavior, and
spectrum access
technique[5]

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Performance analysis of

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spectrum ...

An efficient cooperative spectrum sensing based cognitive radio network employs a certain number of secondary users to sense the spectrum while satisfying Energy and throughput efficient strategies for cooperative spectrum sensing in cognitive radios - IEEE Conference Publication

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VSMC MIMO: A

Spectral Ef fi cient

Scheme for Cooperative

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Energy and throughput
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For the effective
operation and to fulfill
the required
improvements in
spectrum efficiency,
cognitive radio spectrum
sensing system should

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effectively detect all kinds
of transmissions.

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