

Efficient Cooperative Spectrum In Cognitive Radio

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Efficient Cooperative Spectrum In Cognitive

Abstract: Cognitive radio sensor network (CRSN) is an emerging sensor networking paradigm that aims to incorporate opportunistic spectrum access capability to the wireless sensor networks. Since sensor nodes are energy-constrained devices, design of efficient spectrum sensing schemes is imperative for the implementation of CRSNs.

Energy-efficient cooperative spectrum sensing for ...

Abstract One of the main problems of Cooperative Spectrum Sensing (CSS) in cognitive radio networks is the high energy consumption. Energy is consumed while sensing the spectrum and reporting the results to the fusion centre. In this chapter, a novel partial CSS is proposed.

Energy-Efficient Cooperative Spectrum Sensing for ...

Efficient Cooperative Cyclostationary Spectrum Sensing in Cognitive Radios at Low SNR Regimes
Abstract: This paper proposes efficient cooperative cyclostationary spectrum sensing schemes in which each secondary-user (SU) performs single-cycle (SC) cyclostationary detection for fast and simple implementation, while collaboration between SUs in ...

Efficient Cooperative Cyclostationary Spectrum Sensing in ...

c Lamiaa Khalid, 2014 Doctor of Philosophy Electrical and Computer Engineering Ryerson University
In this thesis, we focus on two important design aspects of cooperative spectrum sensing (CSS) in cognitive radio networks which are the selection criterion of cooperating secondary users and the fusion technique for combining their local sensing decisions.

EFFICIENT TECHNIQUES FOR COOPERATIVE SPECTRUM SENSING IN ...

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

Spectrum and energy efficiency of cooperative spectrum ...

Cooperative spectrum sensing is a key function in cognitive radio networks in order to provide unused spectrum access opportunities and mitigate the impact of interference to the primary networks.

Energy-efficient cooperative spectrum sensing schemes for ...

An approach proposed to enhance the reliability of the spectrum sensing process. It implies sharing the local sensing results of several users at a central entity, aiming at improving the reliability of the process decision. Learn more in: Energy-Efficient Cooperative Spectrum Sensing for Cognitive Radio Networks.

What is Cooperative Spectrum Sensing | IGI Global

To address this problem, cognitive radio (CR) , has emerged as a promising technology to enable the access of the intermittent periods of unoccupied frequency bands, called white space or

spectrum holes, and thereby increase the spectral efficiency. The fundamental task of each CR user in CR networks, in the most primitive sense, is to detect the licensed users, also known as primary users (PUs), if they are present and identify the available spectrum if they are absent.

Cooperative spectrum sensing in cognitive radio networks ...

Energy-efficient cooperative spectrum sensing schemes for cognitive radio networks Abstract. Rapidly rising energy costs and increasingly rigid environmental standards have led to an emerging trend of... 1 Introduction. Cognitive radio (CR) has attracted significant attention as a promising ...

Energy-efficient cooperative spectrum sensing schemes for ...

Efficient spectrum sensing is crucial to the effective deployment of CR networks. Cooperative spectrum sensing (CSS) schemes can significantly improve the sensing accuracy of CR networks by exploiting multiuser spatial diversity.

Principles and Challenges of Cooperative Spectrum Sensing ...

In a cognitive radio network (CRN), cooperative spectrum sensing could increase the accuracy of the sensing results by mitigating the effect of multipath and shadowing.

AN ENERGY EFFICIENT SPECTRUM AWARE ROUTING FOR COGNITIVE ...

In this paper, we proposed a novel energy-efficient clustering based cooperative spectrum sensing (what we call the "ECS" scheme) for cognitive radio sensor networks. Our main goal was to enhance the energy efficiency of a cognitive radio sensor network, in order to increase the networks lifetime and stability.

A Novel Energy-Efficient Clustering Based Cooperative ...

Abstract:Cooperative Communications in Cognitive Radio (CR) have been introduced as an essential and efficient technique to improve the transmission performance of primary users and offer transmission opportunities for secondary users. In a typical multiuser Cooperative Communication

An Energy-Efficient Unselfish Spectrum Leasing Scheme for ...

36 S IN INSI I NINS V109 1 2018 ENERGY EFFICIENT STATISTICAL COOPERATIVE SPECTRUM SENSING IN COGNITIVE RADIO NETWORKS E. Kataka* and T. Walingo ...

ENERGY EFFICIENT STATISTICAL COOPERATIVE SPECTRUM SENSING ...

design of efficient spectrum sensing schemes is imperative for the implementation of CRSNs. In order to address this need, a cooperative spectrum sensing scheme (CSS), specifically designed for CRSNs, is presented in this paper. CSS aims to minimize power consumption and delay during spectrum sensing, while meeting the performance requirements in terms of accuracy with minimal complexity.

Energy-efficient Cooperative Spectrum Sensing for ...

Cooperative spectrum sensing and Detection efficiency in cognitive ISSN- 2277-1956/V1N1-64-73 Regardless of the cooperation models, the process of each cooperating CR user. Similar to traditional spectrum sensing is primary signal detection.

Cooperative spectrum sensing and Detection efficiency in ...

S. C. Shinde and A. N. Jadhav, "Centralized cooperative spectrum sensing with energy detection in cognitive radio and optimization," in Proceedings of the IEEE International Conference on Recent Trends in Electronics, Information and Communication Technology (RTEICT), IEEE, Bangalore, India, May 2016.

An Efficient Contention-Window Based Reporting for ...

Cognitive radio (CR) is an intelligent technology for enhancing the utilization of the precious spectrum resources. In CR, the spectrum to be shared in a flexible way. Multiple- input and Multiple-output (MIMO) communication technology has gained significant attention as it is a powerful scheme to improve spectral efficiency.

Energy Efficient Cooperative Spectrum Sensing and Sharing ...

Cooperative Communications in Cognitive Radio (CR) have been introduced as an essential and efficient technique to improve the transmission performance of primary users and offer

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transmission opportunities for secondary users. In a typical multiuser Cooperative Communication in CR, each primary user can choose one secondary user as a relay node.

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