

Introduction to the Issue on Cooperative Communication and Signal Processing in Cognitive Radio Systems

DYNAMIC spectrum access brings an emerging paradigm shift in improving spectrum utilization significantly from the conventional exclusive allocation and usage of spectrum resource. It allows secondary unlicensed users to dynamically share the spectrum with primary licensed users without affecting the normal spectrum utilization in the primary systems. Cognitive radio (CR) has become an important technology to promote dynamic spectrum access by opportunistically sensing and exploiting the spectrum "holes." Meanwhile cooperative relay technology brings another paradigm shift in wireless communication and signal processing by introducing cooperative diversity through distributed transmission and processing with user and node collaboration. In the context of cognitive radio systems, cooperative communication is inspiring new design concepts and bringing new dimensions to dramatically improve the spectrum utilization and efficiency in wireless networks.

This special issue aims at providing a timely and concise reference of state-of-the-art research, recent advances, and innovative solutions to dynamic spectrum access and resource sharing, interplay between cooperative communications and cognitive radio technologies. We received an overwhelming submission of 41 manuscripts, out of which 18 high-quality papers were selected for publication in this special issue after rigorous peer reviews.

There has been a great demand for research on cognitive radio networks via distributed sensing and data fusion as well as non-intrusive utilization of the unoccupied spectrum. The first paper, "Advances in Cognitive Radio Networks: A Survey" by Wang and Liu, provides an excellent survey of the recent research in cognitive radio networks. It covers the fundamentals of cognitive radio technology, cognitive radio network architecture, spectrum sensing, and sharing techniques. The paper provides a comprehensive list of 168 references that should be of great value for researchers in the field.

One critical challenge in a cognitive radio system is how to perform spectrum sensing and analysis of the surrounding radio environment using advanced wireless devices. The next four papers bring the most recent research contributions to cooperative spectrum sensing to achieve significant performance improvement compared to single cognitive radio sensing as developed in the past. The four papers develop various algorithms and techniques for a group of secondary users to collaboratively detect the presence of primary users. The paper, "Cooperative Spectrum Sensing for Cognitive Radios Using Kriged Kalman Filtering" by Kim *et al.* exploits the channel gain maps of the entire area for spectrum sensing through the use of Kriged

Kalman filtering and training signal exchange among the CRs. The paper, "Distributed Compressive Spectrum Sensing in Cooperative Multi-Hop Wideband Cognitive Networks" by Zeng *et al.* exploits the sparse common spectrum of primary users. Cognitive radios jointly detect the sparse spectrum through compressive sampling and iterative consensus optimization. The paper, "On the Performance of Eigenvalue-Based Cooperative Spectrum Sensing for Cognitive Radio" by Kortun *et al.* uses the eigenvalue detection method to calculate the decision threshold as a function of false alarm probability. The paper, "Cooperative Spectrum Sensing Strategies for Cognitive Radio Mesh Networks" by Chen *et al.* proposes two cooperative spectrum sensing strategies showing better performance than non-cooperative methods.

Spectrum sensing is a key step toward the realization of dynamic spectrum access for improved spectrum efficiency. It requires sophisticated signal processing and additional communication overhead among the CRs. There are challenges such as how to effectively obtain the observations either proactively or passively, and how to balance the amount of detection data to reduce the false alarm and missed-detection probability. We have three papers addressing the sensing optimization problem under different formulations. The paper, "Optimally Sensing a Single Channel without Prior Information: The Tiling Algorithm and Regret Bounds" by Filippi *et al.* casts the problem into a framework of a specific class of partially observable Markov decision process. The paper, "Optimization of Linear Cooperative Spectrum Sensing for Cognitive Radio Networks" by Taricco, formulates a linear cooperative spectrum sensing as a non-convex optimization problem. The paper, "Optimization of Non-Convex Multiband Cooperative Sensing with Genetic Algorithms" by Sanna and Murren, formulates the joint spatial-spectral detection as a set of narrowband collaborative optimization problems to derive a direct solution. The last paper on spectrum sensing, "Sequence Detection Algorithms for PHY-Layer Sensing in Dynamic Spectrum Access Networks" by Sun *et al.* develops two general sequence detection algorithms based on Markov sources as the primary users' spectrum access pattern.

Another key issue is to improve the efficiency of spectrum sharing via access control and resource management. We have two papers on medium access control in cognitive radio networks. The paper, "CREAM-MAC: Cognitive Radio-Enabled Multi-Channel MAC Protocol Over Dynamic Spectrum Access Networks" by Zhang and Su, integrates cooperative sequential spectrum sensing at the physical layer, and a packet scheduler at the MAC layer. The paper, "Random Access Protocols for Collaborative Spectrum Sensing in Multi-band Cognitive Radio Networks" by Chen *et al.* considers collaborative sensing and distributed detection in the context of multi-band cognitive

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