



## Advances in Cognitive Radio Networking and Communications

Guest Editor:

**Prof. Dr. Shufang Li**

School of Information and  
Communication Engineering,  
Beijing University of Posts and  
Telecommunications, Beijing,  
China

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### Message from the Guest Editor

In recent years, the explosive growth of mobile data traffic generated by global mobile users has aroused intense scholarly interest in the study of cognitive radio networks. A cognitive radio network is an intelligent network that dynamically changes its characteristics through the spectrum sensing process and adapts to the convenience of its environment.

This cognitive radio technology overcomes the problem of spectrum scarcity caused by traditional fixed-spectrum allocation methods, improves spectrum utilization and channels a capacity of wireless communications. With increased service demands of higher wireless transmission capacity and performance, the efficient utilization of radio spectrum resources is an important challenge for modern wireless networks and communications.

This Special Issue aims to collate the latest research results in the design and application of radio networks and communication systems.

Keywords:

- cognitive radio
- cognitive radio network
- spectrum sensing
- WSN
- wireless communications





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(Department of Electrical and  
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Politecnico di Bari, Via Edoardo  
Orabona n. 4, 70125 Bari, Italy

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*Sensors* Editorial Office  
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