This special issue aims to gather recent research efforts and contributions from academia and industry in addressing the security issues in cognitive radio networks. The open and dynamic nature of cognitive radio challenges the conventional wireless security paradigms e.g., cryptography and authentication, which derives researchers and scientists to seek new means to complement the traditional security methods and improve the cognitive radio security. This special issue will bring together leading researchers and developers to discuss and exchange their ideas and recent results in fields of security modeling, design, and evaluation in cognitive radio networks.

Potential topics include, but are not limited to:

- Spectrum sensing attack and countermeasures
- Spectrum access attack and countermeasures
- Spectrum management attack and countermeasures
- Byzantine attack modeling and analysis in cognitive radio
- Denial-of-service attack modeling and analysis in cognitive radio
- Eavesdropping attack modeling and analysis in cognitive radio
- Information-theoretical secrecy capacity of cognitive transmissions
- Cooperative relay techniques for cognitive radio security
- Multiple antenna techniques for cognitive radio security
- Advanced signal processing techniques (e.g., beamforming, diversity combining, etc.) for enhancing security in cognitive radio
- Cross-layer security mechanism design, implementation, and analysis
- Experimental results on cognitive radio security
Submission Instructions

Before submission, authors should carefully read over the Instructions for Authors, which are located at asp.eurasipjournals.com/authors/instructions. Prospective authors should submit an electronic copy of their complete manuscript through the SpringerOpen submission system at asp.eurasipjournals.com/manuscript according to the submission schedule. They should choose the correct Special Issue in the “sections” box upon submitting. In addition, they should specify the manuscript as a submission to the “Special Issue on Security Challenges and Issues in Cognitive Radio Networks” in the cover letter. All submissions will undergo initial screening by the Guest Editors for fit to the theme of the Special Issue and prospects for successfully negotiating the review process.

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