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Cognitive Radio Networks Symposium

Symposium Co-Chairs

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Scope and Motivation

Cognitive radio and cognitive networking are emerging technologies to address critical challenges of spectrum efficiency, interference management, coexistence and interoperability associated with current and future wireless networks. The goal of this symposium is to facilitate interactions among researchers and to enable public dissemination of recent advances in theory, protocol design, and experimental testing in this rapidly evolving research area. Authors are invited to submit papers presenting original research, not published or currently under review, on the following non-exhaustive list of topics.

Main Topics of Interest

- Models, fundamental limits, and scalability of cognitive radio networks.
- MAC and networking protocols for cognitive radio networks.
- Algorithms and architectures for cognitive radios and networks.
- Adaptive antennas and cognitive RF front-ends for enabling cognitive radio.
- Statistical inference, learning, and cognition in cognitive radio networks.
- Transient behavior and stability analysis in cognitive radio networks.
- Modulation, interference propagation, aggregation, and mitigation.
- Security and robustness issues in cognitive radio networks.
- Spectrum sensing, measurements and statistical modeling of spectrum usage.
- Dynamic spectrum sharing, coexistence, and interoperability.
- Auction, pricing, and other economic aspects and approaches for dynamic spectrum access.
- Cross-layer design and optimization of cognitive radio networks.
- Multimedia communications over cognitive radio networks.
- Cognitive radio test-beds, simulation tools, and hardware prototypes.
- Regulatory policy and standardization.
- Green cognitive radio networks.
- Applications of cognitive radio and cognitive networks (e.g., public safety, vehicular networks, satellite networks)

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