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◆ Scope

Radio spectrum is becoming exhausted because of the growing demands for wireless broadband communications. To cope this problem, the paradigm shift from the conventional exclusive use of frequency resources to the flexible frequency utilization is indispensable for future wireless networks. Cognitive radio is a key technology that brings us an emerging paradigm of flexible frequency spectrum usage. By cognition of the radio frequency environment, cognitive radio terminals dynamically select the optimal frequency and transmission media with cooperation of networks. In these regards, this conference provides opportunities for researchers in both academia and industry to present the latest technologies and exchange ideas in the area of cognitive radio. The following topics are welcome to this conference.

◆ Topics

Track 1 – Dynamic spectrum access / management

- Wideband, cooperative, and compressed spectrum sensing
- Multi-dimensional dynamic spectrum access / sharing
- Dynamic radio resource management / interference coordination
- Cooperative and coordinated multiuser communications
- Multi-antenna / multi-link transmission
- Flexible PHY / MAC control

Track 2 – Cognitive networks

- Heterogeneous networks
- Cooperative networking / transmission
- Self organized networks
- Load balancing and network optimization
- Cooperative radio resource management
- Cross-layer control for cognitive networking

Track 3 – Modeling, regulation and standardizations

- Cognitive channel / interference modeling
- Network information theory
- Dynamic spectrum access in TV white space
- Policy based cognitive radio control
- Protocol issues for cognitive radios

Track 4 – Architecture and Implementations

- Reconfigurable antennas and RF circuits
- Software defined radio and flexible radios
- Hardware prototypes for cognitive radio
- Certification and security issues

◆ Important Dates

Paper Submission Due: Extended to Jan. 31st, 2011
Tutorial Proposal Due: Feb. 14th, 2011
Acceptance Notification: Mar. 15th, 2011
Camera-ready Submission Due: April 15th, 2011

***NOTE* All accepted papers will be published in IEEE Xplore.**

