



# CALL FOR PAPERS

**ICFDCRNR 2021**  
**Jun 03-04, 2021**  
**New York, USA**

The International Research Conference is a federated organization dedicated to bringing together a significant number of diverse scholarly events for presentation within the conference program. Events will run over a span of time during the conference depending on the number and length of the presentations.

ICFDCRNR 2021 : International Conference on Future Directions in Cognitive Radio Network Research is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Future Directions in Cognitive Radio Network Research. The conference will bring together leading academic scientists, researchers and scholars in the domain of interest from around the world. Topics of interest for submission include, but are not limited to:

Cognitive radio and networks  
Challenges and issues in designing cognitive radios and cognitive radio networks  
Architectures and building blocks of cognitive radio networks  
Spectrum sensing, measurements and statistical modeling of spectrum usage  
Waveform design, modulation, interference aggregation, and mitigation for cognitive radio  
Distributed cooperative spectrum sensing and multiuser access  
Cognitive medium access control, interference management, and interference modeling  
Dynamic spectrum sharing  
Handoff and routing protocols  
Resource allocation for multi-antenna based cognitive radio communications  
Energy-efficient cognitive radio communications and networking  
Self-configuration, interoperability and co-existence issues  
Distributed adaptation and optimization methods

Machine learning techniques for cognitive radio systems  
Architecture and implementation of database-based cognitive radio networks  
Cooperative and coordinated communications  
Economic aspects of spectrum sharing in cognitive radio networks  
Regulatory policies and their interactions with communications and networking  
Privacy and security of cognitive spectrum-agile networks  
Attack modeling, prevention, mitigation, and defense in cognitive radio systems  
Physical-layer secrecy in cognitive networks  
Modeling and performance evaluation  
Quality of service provisioning in cognitive radio networks  
Applications and services  
Cognitive radio standards, test-beds, simulation tools, and hardware prototypes

