

# Are you involved in Cognitive Radio Development? IEEE ComSoc Offers A Free Service



How to avoid wireless traffic jams? As more and more devices go wireless, airwaves get increasingly crowded sharing the amount of radio spectrum. Is it time to switch the lane?

Cognitive Radio currently becomes a hot topic as an emerging technology in wireless.

ComSoc's latest launch [Best Readings on Cognitive Radio](#) offers a free service for the community, encouraging researchers, innovators and all the experts in the wireless industry to take advantage of the service as a time saving tool for accessing all the Cognitive Radio related reading materials in one place.

Led by **Len Cimini**, the former IEEE ComSoc VP Technical Activities, and **Vijay Bhargava**, former ComSoc Director of Journals, and currently the IEEE ComSoc President, formed a team of experts from the field including **Ekram Hossain, Dusit Niyato, and Ying-Chang Liang**, and collected the best set of references.

**Best Readings on Cognitive Radio** is a collection of articles, papers, Journal/Magazine Special Issues, and book titles focusing exclusively on Cognitive Radio Communications and Networking. The goal is to give interested readers a good set of references to start with, and it includes some commentary to further assist the readers. [Best Readings on Cognitive Radio](#) can be explored in following different categories:

## **Special issues**

These are the Journal and Magazine Special Issues on **Cognitive Radio and Dynamic Spectrum Access Networks**.

## **Overview books and tutorial/survey papers:**

Books on cognitive radio and dynamic spectrum access are listed in this category. Also, the major survey and tutorial articles in this area are included here.

## **Topics:**

To dive deep into specific topics, readers can examine the numerous reference articles and publications in the following areas:

- Information theoretic analysis and fundamental performance limit of dynamic spectrum access
- Modulation and waveform design, propagation modeling, and spectrum sensing
- Interference analysis, Measurement and statistical modeling of spectrum usage
- Spectrum sharing, resource allocation, multiple access, and power control
- Machine learning, self-configuration, distributed adaptation, and co-existence
- Multi-hop transmission, routing, and cross-layer optimization
- Spectrum mobility and handoff
- Economics of cognitive radio systems
- Robustness, reliability, security
- Applications and services
- Simulation tools, test-beds, software and hardware prototypes
- Best Readings in Cognitive Radio

**Best Readings on Cognitive Radio** website: <http://www.comsoc.org/best-readings-cognitive-radio>

---

**Source URL:** <http://www.comsoc.org/blog/are-you-involved-cognitive-radio-development-ieee-comsoc-offers-free-service>