River Publishers

Cognitive Radio Networks Optimization with Spectrum Sensing Algorithms

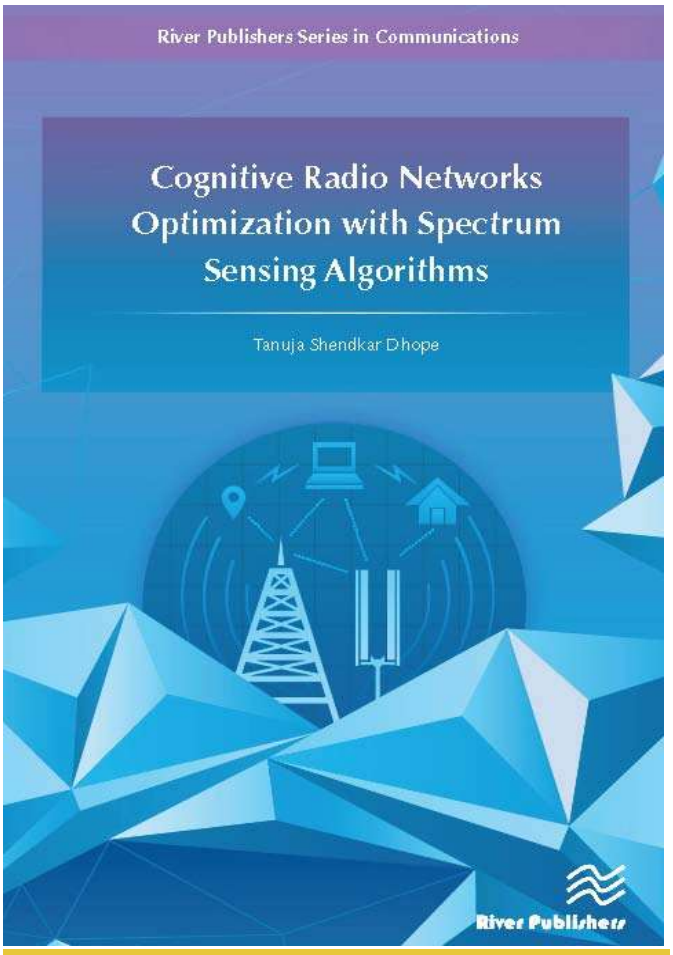
Author: Tanuja S. Dhope, G.H. Raisoni College of Engineering and Management, Pune, India

In recent years, a considerable amount of effort has been devoted, both in industry and academia, towards the efficient utilization of the available spectrum under the various propagation models which lead towards the design and dimensioning of the future network Internet of Things (IoT).

This book focuses on Television White Space (TVWS) opportunities and regulatory aspects for cognitive radio applications, and includes case studies for the exploitation of TVWS depending on user's mobility, and the geo-location between user and the Base Station. The book presents recent advances in spectrum sensing, reflecting state of the art technology and research achievements in this area as well as a new insights in spectrum sensing of performance modeling, analysis and worldwide applications.

Technical topics discussed include:

- Novel Application of TV White Space
- Spectrum Sensing in Cognitive Radio
- Cooperative Spectrum Sensing
- DoA Estimation Algorithms



River Publishers Series in Communications and Networking

ISBN: 9788793102002
Available From: September 2015
Price: € 80.00 $ 105.00

KEYWORDS:
Cognitive Radio, Television White Space, IEEE 802.11 af, Use cases for TVWS, Energy Detection, Covariance Absolute Value, Hybrid Detection Method, Fading Channel, Cooperative Sensing, DoA Estimation Algorithms

www.riverpublishers.com
marketing@riverpublishers.com