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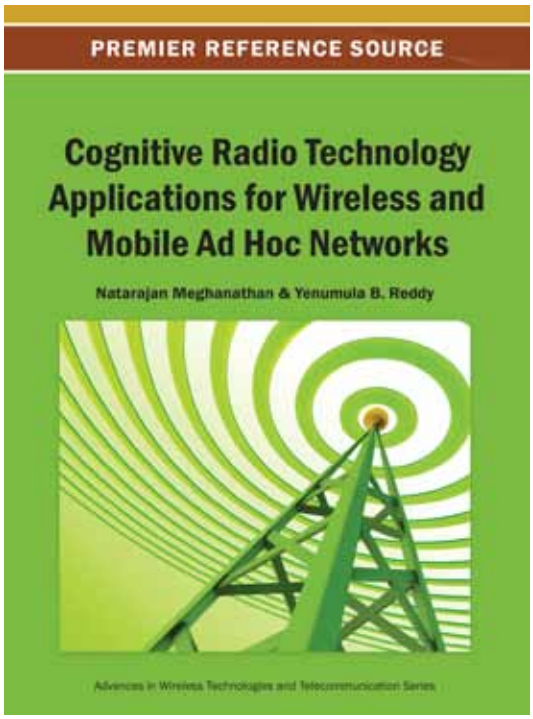
Cognitive Radio Technology Applications for Wireless and Mobile Ad Hoc Networks



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Part of the Advances in Wireless Technologies and Telecommunication (AWTT) Book Series

Natarajan Meghanathan (Jackson State University, USA) and
Yenumula B. Reddy (Grambling State University, USA)

Radio interference is a problem that has plagued air communication since its inception. Advances in cognitive radio science help to mitigate these concerns.

Cognitive Radio Technology Applications for Wireless and Mobile Ad Hoc Networks provides an in-depth exploration of cognitive radio and its applications in mobile and/or wireless network settings. The book combines a discussion of existing literature with current and future research to create an integrated approach that is useful both as a textbook for students of computer science and as a reference book for researchers and practitioners engaged in solving the complex problems and future challenges of cognitive radio technologies.

Topics Covered:

- Business Models
- Dynamic Spectrum Access
- Intrusion Detection
- Machine Learning Techniques
- Network Architecture
- Real-Time Applications
- Routing Protocols
- Simulations, Modeling, and Performance Evaluation

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners. Ideal for classroom use.

Dr. Natarajan Meghanathan is a tenured Associate Professor of Computer Science at Jackson State University, Jackson, MS. He graduated with a Ph.D. in Computer Science from The University of Texas at Dallas in May 2005. Dr. Meghanathan has published more than 140 peer-reviewed articles (more than half of them being journal publications). He has also received federal education and research grants from the U. S. National Science Foundation, Army Research Lab and Air Force Research Lab. Dr. Meghanathan has been serving in the editorial board of several international journals and in the Technical Program Committees and Organization Committees of several international conferences. His research interests are Wireless Ad hoc Networks and Sensor Networks, Graph Theory, Network and Software Security, Bioinformatics and Computational Biology. For more information, visit http://www.jsums.edu/cms/nmeghanathan.

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