



Cognitive Networked Sensing and Big Data

By Robert Qiu, Michael Wicks

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Wireless Distributed Computing and Cognitive Sensing defines high-dimensional data processing in the context of wireless distributed computing and cognitive sensing. This book presents the challenges that are unique to this area such as synchronization caused by the high mobility of the nodes. The author will discuss the integration of software defined radio implementation and testbed development. The book will also bridge new research results and contextual reviews. Also the author provides an examination of large cognitive radio network; hardware testbed; distributed sensing; and distributed computing.

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Review

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“The book deals with big data which is connected with high-dimensional statistics, smart grid, cognitive networked sensing, cognitive radio networks with interface to a cognitive radar. ... The book is an excellent contribution to large data analysis and communication, distributed computing, radio, and radar sciences. The book may be used at graduate and postgraduate levels in electrical engineering and computer science.”
(Nirode C. Mohanty, zbMATH, Vol. 1291, 2014)

From the Back Cover

Cognitive Networked Sensing and Big Data defines high-dimensional data processing in the context of wireless distributed computing and cognitive sensing. This book presents the challenges that are unique to this area such as synchronization caused by the high mobility of the nodes. The authors discuss the integration of software defined radio implementation and testbed development. The book also bridges new research results and contextual reviews. Additionally, the authors provide an examination of large cognitive radio network; hardware testbed; distributed sensing; and distributed computing.

About the Author

Dr. Qiu is a Professor in the Department of Electrical and Computer Engineering, Center for Manufacturing Research, Tennessee Technological University, Cookeville, Tennessee

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