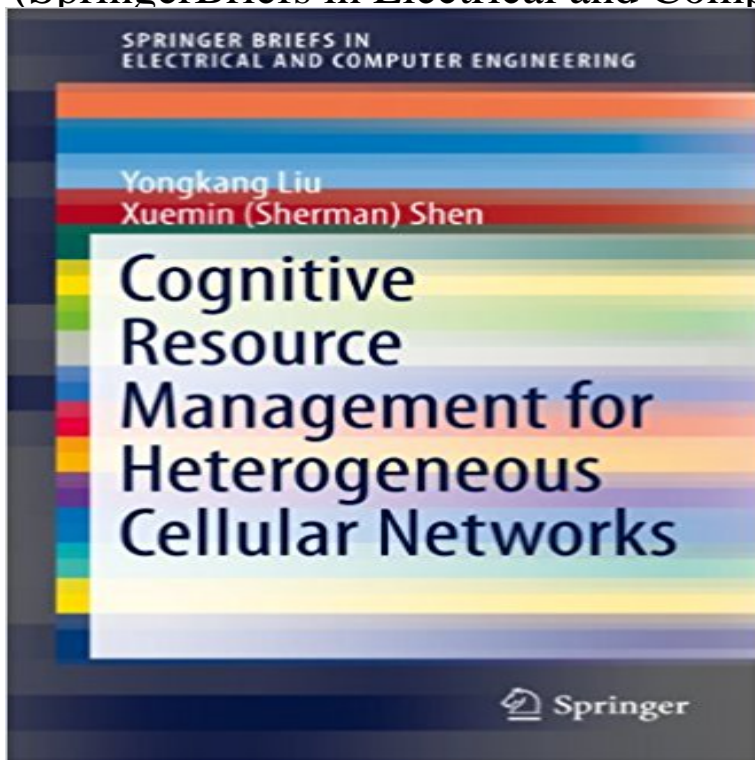


Cognitive Resource Management for Heterogeneous Cellular Networks (SpringerBriefs in Electrical and Computer Engineering)



This Springer Brief focuses on cognitive resource management in heterogeneous cellular networks (Het Net) with small cell deployment for the LTE-Advanced system. It introduces the Het Net features, presents practical approaches using cognitive radio technology in accommodating small cell data relay and optimizing resource allocation and examines the effectiveness of resource management among small cells given limited coordination bandwidth and wireless channel uncertainty. The authors introduce different network characteristics of small cell, investigate the mesh of small cell access points in parallel with macrocells in network control and resource management and address resource management in the backhaul with coordination constraints and wireless channel uncertainty. The final section of this brief summarizes and provides future research directions for this topic, including a proposed framework that has been evaluated through realistic simulations. Cognitive Resource Management for Heterogeneous Cellular Networks is designed for researchers and professionals working in wireless communications and networks. Advanced-level students studying electrical and computer engineering should also find the content helpful.

Cognitive Resource Management For Heterogeneous Cellular (PDF, 1851 KB). Book. SpringerBriefs in Electrical and Computer Engineering. 2014. Cognitive Resource Management for Heterogeneous Cellular Networks **Cognitive Interference Management in Heterogeneous Networks - Google Books Result** Chapter. 2. Cognitive. Cellular. Network. Management. 2.1. CCN. Framework Cellular Networks, SpringerBriefs in Electrical and Computer Engineering, DOI **Cognitive Resource Management for Heterogeneous Cellular** Cognitive Resource Management For Heterogeneous Cellular Networks (SpringerBriefs In Electrical And Computer Engineering) By Liu, **QoS-Aware Cognitive MAC and Interference Management for HetNet** Cognitive Resource Management for Heterogeneous Cellular Part of the series SpringerBriefs in Electrical and Computer Engineering pp **Cognitive Cellular Network Management - Springer Link** Cellular Networks (SpringerBriefs in Electrical and Computer Engineering) - Ebook Cognitive Resource Management for Heterogeneous Cellular Networks **Cognitive Cellular Network Management - Springer** approaches to solve complex resource allocation problems in modern cellular networks. Specifically, we consider the interference management problem in heterogenous networks and the cooperative spectrum sensing problem

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