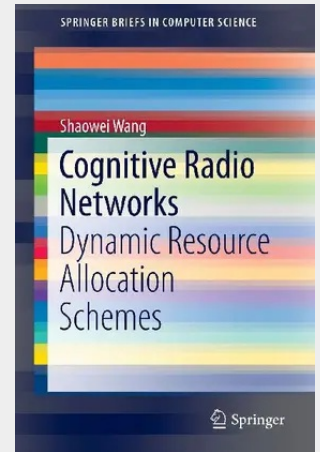


Cognitive Radio Networks

Dynamic Resource Allocation Schemes

This SpringerBrief presents a survey of dynamic resource allocation schemes in Cognitive Radio (CR) Systems, focusing on the spectral-efficiency and energy-efficiency in wireless networks. It also introduces a variety of dynamic resource allocation schemes for CR networks and provides a concise introduction of the landscape of CR technology. The author covers in detail the dynamic resource allocation problem for the motivations and challenges in CR systems. The Spectral- and Energy-Efficient resource allocation schemes are comprehensively investigated, including new insights into the trade-offs for operating strategies. Promising research directions on dynamic resource management for CR and the applications in other wireless communication systems are also discussed. Cognitive Radio Networks: Dynamic Resource Allocation Schemes targets computer scientists and engineers working in wireless communications. Advanced-level students in computer science and electrical engineering will also find this brief useful reading about the next generation of wireless communication.

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53,49 €

49,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783319089355

Medium: Buch

ISBN: 978-3-319-08935-5

Verlag: Palgrave Macmillan

Erscheinungstermin: 12.09.2014

Sprache(n): Englisch

Auflage: Erscheinungsjahr 2014

Serie: SpringerBriefs in Computer Science

Produktform: Kartoniert

Gewicht: 1883 g

Seiten: 104

Format (B x H): 155 x 235 mm

