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Titolo	QoS and Energy Management in Cognitive Radio Network : Case Study Approach // by Vishram Mishra, Jimson Mathew, Chiew-Tong Lau
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Descrizione fisica	1 online resource (XII, 202 p. 60 illus., 39 illus. in color.)
Collana	Signals and Communication Technology, , 1860-4862
Disciplina	621.382
Soggetti	Electrical engineering Computer system failures Communications Engineering, Networks System Performance and Evaluation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction -- Cognitive Radio Network and QoS provisioning -- QoS Provisioning Framework for Cognitive Radio Network -- Channel Selection Techniques in Cognitive Radio Network -- Energy Management in Cognitive Radio Network -- Media Access Scheme for Cognitive Radio Network -- Self-Coexistence among Cognitive Radio Networks -- Case Studies- QoS Framework for Cognitive radio network.
Sommario/riassunto	This book covers the important aspects involved in making cognitive radio devices portable, mobile and green, while also extending their service life. At the same time, it presents a variety of established theories and practices concerning cognitive radio from academia and industry. Cognitive radio can be utilized as a backbone communication medium for wireless devices. To effectively achieve its commercial application, various aspects of quality of service and energy management need to be addressed. The topics covered in the book include energy management and quality of service provisioning at Layer 2 of the protocol stack from the perspectives of medium access control, spectrum selection, and self-coexistence for cognitive radio networks.