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Autore	Benmammar Badr
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1.3.6.2. Second generation 1.3.6.3. Third generation; 1.3.6.4. Fourth generation; 1.4. WiMAX mobile and 4G; 1.5. Conclusion; CHAPTER 2. COGNITIVE RADIO; 2.1. Introduction; 2.2. Software radio; 2.2.1. Software-defined radio (SDR); 2.3. Introduction to cognitive radio; 2.3.1. History; 2.3.2. Definition; 2.3.3. Relationship between cognitive radio and software-defined radio; 2.3.4. Structure; 2.3.5. Cognition cycle; 2.3.6. Components of cognitive radio; 2.3.7. Functions of cognitive radio; 2.4. Languages of cognitive radio; 2.5. Domains of cognitive radio applications; 2.6. Conclusion
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Sommario/riassunto

We are currently witnessing an increase in telecommunications norms and standards given the recent advances in this field. The increasing number of normalized standards paves the way for an increase in the range of services available for each consumer. Moreover, the majority of available radio frequencies have already been allocated. This explains the emergence of cognitive radio (CR) - the sharing of the spectrum between a primary user and a secondary user. In this book, we will present the state of the art of the different techniques for spectrum access using cooperation and competition t
