



Performance Analysis of Spectrum Sensing methods for Cognitive Radio

By Pendli Pradeep

LAP Lambert Academic Publishing Apr 2016, 2016. Taschenbuch. Book Condition: Neu. 220x150x6 mm. This item is printed on demand - Print on Demand Neuware - This book gives an overview of cognitive radio technology, OFDM based Cognitive Radio (CR) and spectrum sensing techniques. Matched filter detection, Time-Domain Signal Cross-Correlation (TDSC), C-TDSC-MRC (maximum ratio combining) method are developed for Orthogonal Frequency division multiplexing (OFDM) systems for spectrum sensing are explained in this book. The time-domain signal cross-correlation (TDSC) method exploits the periodic feature of pilot signals embedded in time-domain OFDM signals, while random data signals deteriorate the detection performance. There is no significant improvement in detection of SNR for Pd and Pfa The book takes a view of Spectrum sensing using C-TDSC-MRC method with DAPSK QAM, QPSK modulation and its performance analysis in terms of performance metrics SNR, probability of detection and probability of false alarm for different AWGN and fading channels using MATLAB. 92 pp. Englisch.



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