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Performance of hybrid sensing method in multipath fading environment

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Abstract: The article presents an analysis of the efficiency of the hybrid sensing method for Rayleigh and m-Nakagami fading channels. The proposed hybrid detector (HD) takes advantage of the energy detection (ED) and a method based on the Covariance Absolute Value (CAV). The paper describes the model of the system and presents the simulation results for OFDM signal (Orthogonal Frequency Division Multiplexing) of WiMAX system. The simulation results were presented for the AWGN channel - the case currently considered in the literature, and then

repeated for the environment with Rayleigh fading as well as mild and severe m-Nakagami fading.

Keywords: hybrid detector; multipath fading; Rayleigh fading; m-Nakagami fading; OFDM; WiMAX.

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