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Research Letter

Performance of Equal Power Allocation in Multiuser OFDM-Based Cognitive Radio Systems

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Abstract

The performance difference between a simple equal subchannel power allocation and the optimal water-filling subchannel power allocation schemes is studied for a multiuser OFDM-based cognitive radio (CR) system. It is shown that this difference depends on the average subchannel gain variations among the CR users as well as the activity levels of the primary users.

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