عنوان مقاله:

An interference power control solution in a cooperative cognitive device-to-device network

محل انتشار:

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خلاصه مقاله:

In this paper, we propose a Lagrangian method to solve an optimization problem which maximize the received signal to interference plus noise power ratio at the receiver nodes in a cognitive device-to-device framework. The framework consists of a primary transceiver, two secondary transceivers, and some device-to-device relay nodes. Basically, the computational complexity of the optimization problem can be reduced using the proposed method. A comparison of the proposed method with a semidefinite programming approach is also presented. Simulation results are provided to show the efficiency of our approach.

کلمات کلیدی: