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ENHANCED MULTI-TRANSMITTER BASED CHANNEL SELECTION MATCHING SYSTEM FOR COGNITIVE RADIO AD HOC NETWORK

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ABSTRACT

Cognitive radios (CRs) are regarded as a promising solution for alleviating this spectrum underutilization problem by enabling unlicensed users. In traditional ad hoc networks, broadcasts are conducted on a common channel, which is shared by all nodes in the network. However, in cognitive radio ad-hoc networks, unlicensed users may observe heterogeneous spectrum availability, which is unknown to other unlicensed users before the control information was broadcast. In this project, a Quality-of-service (QoS)-based broadcast protocol under Blind Information for multi-hop CR ad hoc networks, i.e., QB^{2}IC is proposed with the aim of having a high success rate and short broadcast delay. In enhancement work a technique was proposed to provide seamless communication in most of the environment, such as communication can be done with and without infrastructure and we have enhanced our base work with the multi transmitter to get channel information in blind environment.