

Abstract Details

Title: A Survey on Routing in Cognitive Radio Network

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Abstract: Cognitive Radio (CR) can be used as a solution to current unbalanced spectrum utilization. The cognitive ad hoc network can take advantage of dynamic spectrum access and spectrum diversity over wide spectrum. It could achieve higher network capacity compared to traditional ad hoc networks, thus supporting bandwidth-demanding applications. Mobile Ad-Hoc networking has gained an important part of the interest of researchers and become very popular these past few years, due to its potential and possibilities. These protocols determine how messages can be forwarded, from a source node to a destination node which is out of the range of the former, using other mobile nodes of the network. Routing, which includes for example maintenance and discovery of routes, is one of the very challenging areas in communication. Simulators though cannot take into account of all the factors that can come up in real life and performance and connectivity of mobile Ad-Hoc network depend and are limited also by such factors. Here we focused on the potential routing approaches that can be employed in adaptive wireless networks.

Keywords: Cognitive Radio, MANET, Routing Protocol.