New Routing Protocol in Ad Hoc Networks

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Description

Ad Hoc network is a collection of wireless devices (nodes) forming a temporary network which has any established infrastructure or centralized administration. These devices have the ability to move which means that the topology of Ad Hoc network changes according to the mobility of nodes. In order to maintain the connectivity between nodes in Ad Hoc network it is necessary that mobile nodes work together. Many routing protocols have been proposed to keep the connectivity between nodes, including the AODV protocol (Ad Hoc On-Demand Distance Vector), which is maintained as a standard by the IETF. This protocol has limitations in terms of stability of links between nodes. To overcome these limitations, we proposed an improvement of AODV protocol to find stable links, which endure between source and destination. Our idea is based on the quality of the received signal strength between the different …