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Reducing Message Overhead of AODV Routing Protocol in Urban Area by Using Link Availability Prediction

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Reducing Message Overhead of AODV Routing Protocol in Urban Area by Using Link Availability Prediction

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Mobile ad hoc networks are special kind of wireless networks, there is no fixed structure in these networks but they have nodes movement ability that add their complexity. These networks are established without defined structure and mostly used in military services, rescue operation in damaged areas, conferences and etc. According to these networks characteristics, different routing protocols have been proposed, it can be addressed to AODV protocol. In this paper we have optimized AODV routing protocol performance by using link availability prediction in urban area by Hello message mechanism. In order to modeling urban area we employed Manhattan mobility model for node's movement. The results of simulations show that new method reduces message overhead and average of broken links metrics relative to classic AODV algorithm.

Index Terms:
Mobile ad hoc networks, AODV routing protocol, Link availability prediction, Manhattan mobility model

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