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Abstract

Attributed to the explosion in the number of mobile users, an imposition on the limits of bandwidth emerged that deliberately affects the network performance. Further, because of increasing applications it is essential to assure bandwidth and low delay. Existing Congestion Avoidance routing protocols select path guaranteeing delay and bandwidth. However, there are channel variations through which it fails to pass the information between the nodes. To overcome these concerns, we have proposed a cross-layer TDMA-based routing protocol to meet delay and bandwidth requirements. Further to cope with issues such as reliability and channel accessibility we have integrated AODV protocol along with the cross-layer TDMA. Also, to reduce cost and packet loss we have incorporated multi-path routing methods.

References


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Index Terms

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Channel Access Methods, TDMA, Cross-layer TDMA, AODV, Routing, Multipath routing.