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RESEARCH ARTICLE

QOS ORIENTED NODE SELECTION APPROACH IN AD-HOC ROUTING IN VANET

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Abstract

Vehicular ad hoc networks (VANETs) are highly mobile wireless networks that are designed to support vehicle safety. A Our new protocol combines features of on demand routing with position-based geographic routing in a manner that efficiently uses all the position data available. The protocol is provided to gracefully exit to on demand routing as the position information attaining low level. In the paper, we have presented, a hybrid routing scheme that gracefully integrates the characteristics of on-demand and proactive routing, it shows more scalability for movement and collision load. We have demonstrated that new hybrid protocol provides well on demand routing protocols (such as AODV), Geo-routings (such as GPSR) and adaptive hybrid routing protocols (such as AODV) in high mobility and collision load. The improvement is more significant with higher mobility and collision load. We show through analysis that our protocol is scalable and has an optimal overhead, even in the presence of position errors. Our protocol provides an enhanced yet pragmatic location-enabled solution that can be deployed in all VANET-type environments. QOS-AR is simple to deploy and yet effectively obtains optimal scalability performance, making it an ideal candidate for the routing protocol in emerging VANETs. By selecting the forwarding So that we can reduces delay, increase energy and throughput

Index Terms-Geographic Information Systems, intelligent vehicles, routing protocols, wireless networks

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