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不同发送速率下移动自组网DSR 的性能比较

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Performance Comparison of Dynamical Source Routing Based on Different Rate in Mobile Ad Hoc Networks

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摘要 基于对多媒体业务的支持, 在144 Kbps 发送速率下研究了移动自组网中路由协议DSR(动态源路由) 的性能,并与2 Kbps 发送速率下的性能进行了比较. 结果表明: 与2 Kbps 发送速率下相比, 144 Kbps 发送速率下的报文投递速率要低,同时平均端到端的时延、路由负荷、MAC 负荷也高; 对于不同源节点下的性能, 144 Kbps 发送速率表现出与2 Kbps 发送速率不同的变化趋势.

关键词: MANET DSR 报文投递率 时延 路由负荷 MAC负荷

Abstract: In order to apply multimedia traffic, the performance of dynamical source routing (DSR) protocol inMANET is studied on 144 Kbps transmission rate in this paper. At the same time, the performance on 144 Kbps is compared with that on 2 Kbps transmission rate. This result indicates that compared with 2 Kbps transmission rate, 144 Kbps transmission rate obtains lower packet delivery fraction, higher average end- to- end delay, higher routing load and higher MAC load in 144 Kbps transmission rate, and in regard to the performance of difference source node, it shows different changing trend.

Key words: MANET DSR packet delivery ratio delay routing load MAC load

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