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A SURVEY ON OLSR ROUTING PROTOCOL FOR REDUCING PACKET LOSS RATIO IN AD-HOC NETWORKS

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Abstract

Ad-hoc networks consist of collections of wireless mobile nodes. Due to mobility, there exists frequent link breakage, packet loss, and need for route discovery. OLSR is proactive routing protocol that is developed for mobile ad-hoc networks. OLSR reduces the network traffic by flooding control packets efficiently and reducing unnecessary and redundant control packets. OLSR reduces the overhead of control packets using a subset of one-hop neighbors called multipoint relays for flooding control packets. Although OLSR is dedicated for mobile ad-hoc networks, but mobility of nodes does not considered in MPR selection procedure. In this paper is assumed that some nodes are stationary and packet delivery rate of the OLSR routing protocol is improved by calculating weight on particular node Simulation results which are implemented on NS-2 simulator, demonstrate that our proposed method reduces the packet loss ratio and number of control packets and consequently increases lifetime of networks.

Keywords

MANET, OLSR, NS-2, AD, PDR, MPR

References

- Bowman, M., Debray, S. K., and Peterson, L. L. 1993. Reasoning about naming systems. .
- Ding, W. and Marchionini, G. 1997 A Study on Video Browsing Strategies. Technical Report. University of Maryland at College Park.
- Fröhlich, B. and Plate, J. 2000. The cubic mouse: a new device for three-dimensional input. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems
- Tavel, P. 2007 Modeling and Simulation Design. AK Peters Ltd.
- Sannella, M. J. 1994 Constraint Satisfaction and Debugging for Interactive User Interfaces. Doctoral Thesis. UMI Order Number: UMI Order No. GAX95-09398., University of Washington.
- Forman, G. 2003. An extensive empirical study of feature selection metrics for text classification. J. Mach. Learn. Res. 3 (Mar. 2003), 1289-1305.
- Brown, L. D., Hua, H., and Gao, C. 2003. A widget framework for augmented interaction in SCAPE.
- Y.T. Yu, M.F. Lau, "A comparison of MC/DC, MUMCUT and several other coverage criteria for logical decisions", Journal of Systems and Software, 2005, in press.
- Spector, A. Z. 1989. Achieving application requirements. In Distributed Systems, S. Mullender