

Abstract

Vehicular Ad Hoc Network (VANET) is an expansion of Mobile Ad Hoc Network (MANET) that makes a vehicles as a node in the network. In VANET, the mobility of a node is very high. This cause the network topology changes frequently. Based on that, one of problem in VANET is the process of finding proper routing network.

In this paper, I will compare ZRP and MDART routing protocols with urban and highway scenario. The simulation tested in NS-2. The result is that ZRP is slightly better than MDART on both scenarios. But, routing overhead in ZRP is not quite good because ZRP always checked its peripheral nodes to find destination node. Moreover, the ZRP result on highway scenario is worse than in urban scenario because in highway there's no intersection like in urban scenario. That means the feature in ZRP which is named zone overlapping that work with vehicles cumulation is not working.

Keywords: highway, MDART, NS-2, urban, VANET, ZRP.