

ABSTRACT

Mobile Ad-hoc Network (MANET) routing protocol can generate different performance across different network scenarios. There are studies that have been done to examine the performance of the MANET. Studies around the MANET protocol are generally associated with topology-based protocol. The easy way to show the difference of each protocol is by comparing between proactive protocol and reactive protocol. Even though, there is still a combination of both which is called as the hybrid protocol. So, the study to compare between proactive protocol and hybrid protocol, or the study to examine between reactive protocol and hybrid protocol is a challenge. However, there are little studies regarding the MANET which focus on used energy on MANET network. This study is executed to analyze the used energy comparison on MANET network between proactive protocol which is OLSR and hybrid protocol which is namely as ZRP.

Keywords: MANET, proactive routing protocol, hybrid routing protocol, OLSR, ZRP, energy consumption, mobility model.