

**Title:** Guaranteeing Quality of Service and Low Power Consumption in Mobile Ad-Hoc Networks

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**Abstract:**

Mobile Ad-Hoc Networks are used widely in these days. It is suitable for emergency situations or disaster areas when existing communication infrastructure is damaged and rapid deployments of a communication networks are needed. In MANET, power awareness is an important challenge to improve the communication energy efficiency at individual nodes. In this paper authors have proposed and implemented efficient low power consuming routing protocol on top of AODV. Main goal of the proposed routing protocol is increasing the network lifetime of MANET. Additionally paper evaluates the implemented protocol using NS2 simulator in different network scales taking the power consumption into consideration. The proposed algorithm reduces for more than 9.8% of the total energy consumption and decreases the mean delay and achieves a good packet delivery ratio.

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