

## **Abstract Details**

**Title:** Implementation of Hybrid Model of AODV & MTPR for Ad-Hoc Network in MATLAB

**Authors:** Dharendra Mohan and Jitendra Kumar

**Abstract:** Mobile Ad-hoc Network (MANET) is an autonomous system of mobile hosts connected by wireless links. The nodes in these networks have several constraints such: limited bandwidth, transmission range and mobility. Another parameter that significantly affects the network performance is the limited battery power of the nodes. This paper proposes a novel routing protocol that considers two parameters: Hop count and Total Transmission loss. On the basis of these two route metrics an optimal path is proposed. The proposed protocol is implemented in MATLAB 2013a and our result also shows that our proposed protocol is better than other standard protocols such as MTPR (Minimum Total Transmission Power Routing) and AODV (Ad-hoc on demand Distance Vector routing).

**Keywords:** MANET, MTPR, AODV, Hop Count, Transmission loss, Routing Protocols, Power Saving.