**Paper No: PU-SOE-CSE-28**

**A Novel Scheme for Energy Conservation and Reduction in Routing Overhead of AODV for Wireless Ad-Hoc Networks**

**Ramesh.Vatambetia, D.Pramodh Krishnab,** K.Sangeetha Supriyac

a. Associate Professor, Computer Science and Engineering, Presidency University, Bangalore, India

b. Assistant Professor, Computer Science and Engineering, Presidency University, Bangalore, India

c. Assistant Professor, CSE, HKBK College of Engineering, Bangalore, India

**Abstract**

A collection of wireless nodes creates a self-arranged MANET. The Mobile devices make correspondence over the wireless connections with no prefixed organization. The devices in portable specially appointed systems are battery worked and with constrained energy assets. This makes energy productivity a key concern in guaranteeing framework solidness. This paper recommends an Energy Efficient Preemptive DSR to the MANET. It represents the energy management method to improve the routing protocol proficiency. The energy preservation is achieved in the MAC layer. It manages the proposed energy management approach. It clarifies the connection of directing overhead and energy protection and it manages the routing overhead decrease. It computes the accessible and required energy of correspondence node and it assesses the moderated energy level. It reproduces the expending energy in Preemptive DSR and, it contrasts the reenactment result and AODV protocol.

**Keywords:**

Energy Management, Reduction of Overhead, AODV, Traffic Pattern, Mobility Pattern.

**Publication Details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Journal Name** | **Vol.** | **Month & Year** | **Page No.** | **Publisher** | **Scimago Ranking** |
| International Journal of Advanced Science and Technology | 29 | March, 2020 | 5281-5287 | [Science and Engineering Research Support Society](https://www.scimagojr.com/journalsearch.php?q=Science%20and%20Engineering%20Research%20Support%20Society&tip=pub) | Q4 |