



## Analyze an Energy-efficiency Algorithm based on On-demand Load Balancing and Cluster Head for Wireless Sensor Networks

Jothilakshmi<sup>1</sup>, Dr S Subbaiah<sup>2</sup>

<sup>1</sup>Assistant Professor, PG & Department of Computer Science and Applications, Vivekanandha College of Arts and Science for Women, Tiruchengodu, Tamilnadu, India

<sup>2</sup>Assistant Professor, Department of Computer Science, Shri Krishna Arts and Science College, Coimbatore, Tamilnadu, India

[jothividhula@gmail.com](mailto:jothividhula@gmail.com), [subbunaren@yahoo.com](mailto:subbunaren@yahoo.com)

Article History- Received: Dec 2018; Published: January 2019

### ABSTRACT

Wireless sensor networks in the cluster algorithm use multi-hop style of communication, close to the sink node of the cluster head node transmit a lot of data which led to extreme energy consumption, the node is simply failure, at last network partitioning. This paper introduces the concept of the presents a on demand-based load balancing with cluster head algorithm for wireless sensor networks for energy-efficiency.

**KEYWORDS:** Wireless Sensor Networks, energy efficient, coverage, network lifetime