IJDACR
ISSN: 2319-4863

IJDACR
International Journal Of Digital Application & Contemporary Research

International Journal of Digital Application & Contemporary Research
Website: www.ijdacr.com (Volume 5, Issue 8, March 2017)

An Energy Efficient Fuzzy Logic based Hybrid Routing Protocol in Wireless Sensor Networks

Anil Anand Patil
M. Tech. Scholar
Jagadguru Dattatray College of Technology, Indore (India)
anilpatil1977@gmail.com

Kuntal Barua
Assistant Professor
Jagadguru Dattatray College of Technology, Indore (India)
kuntal.barua@gmail.com

Khushboo Sawant
Assistant Professor
Jagadguru Dattatray College of Technology, Indore (India)
sawantkhushboo@gmail.com

Abstract –**Wireless sensor networks are the collection of several small, battery operated electronic devices known as sensors in order to monitor physical phenomena such as temperature, pressure or humidity. Furthermore, these sensor nodes are usually operated by the battery which is normally not easy to replace. Till now many routing protocols have been proposed for energy efficiency of both homogeneous and heterogeneous environments. We propose here a Fuzzy-based hybrid protocol for some nodes to transmit data directly to the base station. The proposed approach is based on fuzzy level information which minimizes the time for the selection of cluster head.**

Keywords – **Fuzzy, LEACH, Routing, WSN.**