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RESEARCH ARTICLE

TO ENHANCE THE LIFETIME OF WIRELESS SENSOR NETWORK USING A NOVEL APPROACH BASED ON NEURAL NETWORK

¹Parminder Kaur, ²Ravikant Sahu

¹Lovely Professional University, Phagwara, Punjab, India

²Lovely Professional University, Phagwara, Punjab, India

¹parigrewal1525@gmail.com, ²ravi.16920@lpu.co.in

Abstract - Wireless sensor network (WSN) is a network of small light weighted wireless nodes which are highly distributed and deployed in large numbers. Wireless sensor networks provide an economic approach for the deployment of the control devices and distributed monitors and avoid the expensive wired system. When the communication takes place in wireless sensor networks then the energy is consumed. Here main concern is to avoid battery wastage. The cluster head is also choosing according to the minimum battery consumption by applying election algorithm. The BS is also placed within the deployed area of wireless sensor network. In our proposed work, NS-2 is used as a simulator to implement whole scenario.

Keywords - battery consumption, clustering, learning, wireless sensor network, sensing nodes

Full Text: <http://www.ijcsmc.com/docs/papers/March2014/V3I3201499b25.pdf>