ENERGY EFFICIENT ROUTING ALGORITHM USING DIRECTIONAL SOURCE AWARE PROTOCOL (DSAP)

AMIT SHARMA[1], P. V. SINGH[2], SAMEER ANAND[3] & NEELAM SRIVASTAVA[4]

[1] Research Scholar, IFTM University, Moradabad, Uttar Pradesh, India

Department of E&C Engineering, KIMT, Moradabad, Uttar Pradesh, India

[2,3] Department of E&C Engineering, KIMT, Moradabad, Uttar Pradesh, India

[4] Department of E&C Engineering, IET, Lucknow, Uttar Pradesh, India

ABSTRACT

This paper presents the different problems encountered in sensor networks today, precisely the problem of routing. The directional source aware routing protocol (DSAP) is described along with its principle and is simulated using the network simulator OMNET++ useful for debugging, illustration purposes or performance evaluation, and providing a collection of tools that help modifying or implementing new features in an easy fashion. The results of the simulation are commented, the limitations of the current version of DSAP are analyzed along with possible enhancements.

KEYWORDS: Simulations, Wireless Sensor Networks, Routing Algorithm, OMNET++