

Orphan Node Inclusion Protocol for Wireless Sensor Network

Authors : Sandeep Singh Waraich

Abstract : Wireless sensor network (WSN) consists of a large number of sensor nodes. The disparity in their energy consumption usually lead to the loss of equilibrium in wireless sensor network which may further results in an energy hole problem in wireless network. In this paper, we have considered the inclusion of orphan nodes which usually remain unutilized as intermediate nodes in multi-hop routing. The Orphan Node Inclusion (ONI) Protocol lets the cluster member to bring the orphan nodes into their clusters, thereby saving important resources and increasing network lifetime in critical applications of WSN.

Keywords : wireless sensor network, orphan node, clustering, ONI protocol

Conference Title : ICCSET 2016 : International Conference on Computer Science, Engineering and Technology

Conference Location : Toronto, Canada

Conference Dates : June 13-14, 2016