Abstract

These days proficient plan and realization of wireless sensor networks has turn into a wide spread area of study in current time, all because of the immense capability of sensor networks to permit applications that bond the substantial world to virtual world. Wireless sensor network (WSN) is being worn in surveillance, medical examination etc. Sensors nodes are typically built of few sensors and a mote unit. Sensor is a portion of equipment which wits the data and hands it over to mote. Sensors are usually worn to compute changes in substantial environmental parameters such as warmth, strain, moisture, noise, and tremor. Also variations in the fitness parameter of someone e.g. blood pressure and the rate at which the heart beats. In this research a technique named Energy competent Steering Protocol based on CSA (ECSPCSA) is projected to apply Cuckoo Search Algorithm (CSA) to the problem of electing the group leader (CH) in the group set-up stage based on minimizing the intra group average space linking the member sensors and their relevant leaders (CH) and minimizing the total of fraction of remaining power/energy of active sensors in group to energy intensity of leader (CH) to proficiently increase the network life span and to get better stability period.
References


Index Terms

Computer Science  Networks

Keywords

WSN (Wireless Sensor Network), CSA (Cuckoo Search Algorithm).