Abstract

These days proficient design and realization of wireless sensor networks has turn into a hot area of research in recent time, due to the immense potential of sensor networks to enable applications that bond the substantial world to the virtual world. Wireless sensor network (WSN) is being used in surveillance, medical monitoring etc. Sensors nodes are typically built of few sensors and a mote unit. A Sensor is a piece of equipment which wits the information and passes it on to mote. Sensors are usually used to compute the changes in substantial environmental parameters like warmth, strain, moisture, noise, tremor and changes in the fitness parameter of person e.g. blood pressure and the rate at which the heart beats. In this research a technique named ABC Based Energy Efficient Protocol (ABCEEP) is projected to apply Artificial Bee Colony (ABC) to the problem of electing the cluster heads in the cluster set-up phase based on minimizing the cluster’s consistency/break up/compactness (intra remoteness) and maximizing the cluster separation (inter remoteness) to proficiently increase the network life span and to get better stability period.
References


Index Terms

Computer Science

Wireless

Keywords

WSN (Wireless Sensor Network), ABC (Artificial Bee Colony), GA (Genetic Algorithm), HSA (Harmony Search Algorithm)