

Pervasive Computing Package

Topic : Implementation of P-LEACH

Members :

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We have implemented a research paper titled “**P-LEACH : Energy Efficient Routing Protocol for Wireless Sensor Networks**”, The paper is also attached in the same git repo.

P-LEACH is a combination of PEGASIS and LEACH protocol, which the research paper talks about, we have implemented it in python. We have also shown the graphs which has proven the efficiency of P-LEACH.

The code has a sensor as a class and the function main_pegasis() initializes the number of sensors, forms the cluster, elects the cluster head, also sensor has a huge number of variables like the x coordinate, y coordinate, energy and much more.

At the end energy and efficiency of the sensors and P-LEACH protocol are shown in the graph, which helps us to analyse the efficiency between P-LEACH, LEACH and PEGASIS.

It generates the following graphs



