Abstract

Cloud computing is now becoming very popular in today's business world. The small businesses which are not capable of bringing in the new technology due to the shortage of fund, they can easily get their services from cloud computing in exchange of nominal charges. In this paper I have tried to extend the facilities of cloud computing to sensor networks. The sensor node has limited processing capacity and memory. So if some tasks from the sensor nodes can be uploaded to the server of cloud computing then the battery life of the sensor nodes can be extended. The cloud computing can be used both for processing of aggregate query and storage of data. The cloud service provider can use different sensor network at different time to create new service. For establishment of the shortest path between sensor networks and cloud servers, ant colony optimization technique is used. Determination of shortest path facilitates
efficient query processing and data storage. In case of any failure of sensor nodes or server nodes, alternative path can be selected for faster response time, compromising the shortest distance for the time being, and then ant colony optimization technique can be used again to find the shortest path.

Reference


Index Terms

Computer Science

Communications

Key words
Exchanging of Information between Cloud Computing Server and Sensor Node for Effective Application Development

Sensor nodes

ant

colony optimization technique

cloud service provider

cloud service