Abstract

Inside a wireless sensor network there exist a number of nodes; often deployed in remote and inaccessible areas. These nodes take the power from batteries. The nodes are intended for monitoring physical phenomena like temperature changes, Percentage of humidity etc. Over the time, any of the nodes finds itself in a situation that it is difficult to maintain its course of routine. This can happen due to a discharged battery or any physical damage to the node. This situation hampers the synchronization accuracy among nodes. Therefore, in this paper a method is suggested to keep the throughput inside a wireless sensor network, simply by anticipating the situation with an algorithm that is based on consensus approach and using average time synchronization protocol.

References

2. Luca Schenato, Alessio Basso," Average TimeSync (ATS): a distributed consensus protocol for sensor networks clock synchronization “.


Index Terms

Computer Science Wireless

Keywords

Throughput, consensus, average time synchronization