Abstract

Asymmetric Wireless sensor network is dynamic in nature and completely operates on infrastructure less environment. It discovers routes dynamically to reach the destination. Securing a dynamic route which is not known before communication is always a challenge. Energy conservation and finding the shortest path is a key challenge. In this paper propose a shortest path Minimum Broadcast Energy conserving (SME) Protocol for Asymmetric Wireless Sensor Network. It finds the shortest path in minimum broadcasts and conserves energy in asymmetric wireless network. The basic idea behind SME is to improve upon RP, Layhet, Egyhet from the state of the art and achieve performance enhancement with better delivery rate consuming minimum energy and slow sinking with reduction in energy during data routing process for data transmission to destination for the route selected in an asymmetric environment. Asymmetric indicates where two end nodes may not use the same path to communicate with each other.

Index Terms

Computer Science Wireless
Keywords

Asymmetric Wireless Sensor Network, RP, Layhet, Egyhet, SME.