Abstract

WSNs have become a major area of research in computational theory due to its wide range of applications. But due to limited battery power the energy consumption has become a major limitation of WSNs protocols. Though many protocols have been proposed so far to improve the energy efficiency further but still much enhancement can be done. Although GSTEB has shown quite significant results over available protocols but it can be further improved using clustering based mechanism. This paper has proposed a new clustering and tree based routing protocol for wireless sensor networks. The proposed technique utilizes the LEACH based clustering protocol and improves the GSTEB further by increasing the stability period. The experimental results have shown the significant improvement.

References


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**Index Terms**

Computer Science

Wireless

**Keywords**

Energy-balance network lifetime clustering self organized tree wireless sensor network.