

## Performance Analysis of N-Tier Grid Protocol for Resource Constrained Wireless Sensor Networks

**Authors :** Jai Prakash Prasad, Suresh Chandra Mohan

**Abstract :** Modern wireless sensor networks (WSN) consist of small size, low cost devices which are networked through tight wireless communications. WSN fundamentally offers cooperation, coordination among sensor networks. Potential applications of wireless sensor networks are in healthcare, natural disaster prediction, data security, environmental monitoring, home appliances, entertainment etc. The design, development and deployment of WSN based on application requirements. The WSN design performance is optimized to improve network lifetime. The sensor node resources constrain such as energy and bandwidth imposes the limitation on efficient resource utilization and sensor node management. The proposed N-Tier GRID routing protocol focuses on the design of energy efficient large scale wireless sensor network for improved performance than the existing protocol.

**Keywords :** energy efficient, network lifetime, sensor networks, wireless communication

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