# Performance Evaluation of Clustering Algorithms in Wireless Sensor Networks (WSN). Energy Efficiency of S-Web and LEACH

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GRIN Verlag Gmbh Apr 2015, 2015. Taschenbuch. Book Condition: Neu. 210x148x3 mm. This item is printed on demand - Print on Demand Neuware - Master's Thesis from the year 2013 in the subject Computer Science - Miscellaneous, grade: -, , course: Master of Technology, language: English, abstract: Wireless Sensor Networks (WSNs) are highly integrated technologies applying sensors, microcontrollers and wireless networks technologies. Wireless sensor networks (WSNs) is a promising technology that has a large spectrum of applications such as, battlefield reconnaissance, border protection and security surveillance, preparing forecasts, severe environment detection, volcano monitoring, disaster management. WSNs operate unattended in harsh environments with limited energy supplies that can't be practically changed or recharged. Thus energy efficiency is a critical design issue which must be addressed. Clustering plays an effective role in judicious use of dwindling energy resources of the deployed sensor nodes. Nodes are grouped into clusters and a specific designated node, called the cluster head is responsible for collecting data from the nodes in its cluster, aggregating them and sending to the BS, where data can be retrieved later. Besides energy efficiency, clustering has many other advantages like reduced routing overhead, conservation of communication bandwidth, stabilized network topology, network stability...

## Reviews

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