



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

By Sahil Sholla

GRIN Verlag Gmbh Apr 2015, 2015. Taschenbuch. Book
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 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...

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