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Investigation of clustering algorithm in wireless sensors

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**Abstract**

Wireless sensors and sensors that respond to the impact of objects, fire, theft, sound or many other issues, can play a special role in everyday human life. These sensors became the subject of interest of researchers in this field. For this purpose, separate clusters and mainly non-overlapping groupings are often used. At the end of this research, we concluded after some studies Grouping nodes into clusters has been the most popular approach for support scalability in WSNs. Significant attention has been paid to clustering strategies and algorithms yielding a large number of publications. In this paper, we surveyed the state of the research and classified the different schemes. We developed taxonomy of relevant attributes. We categorized the different schemes according the objectives, the desired cluster properties and clustering process. We highlighted the effect of the network model on the pursued approaches and summarized a number of schemes, stating their strength and limitations.

**Keywords:** Scalability, Clustering algorithm, wireless sensor.