

SURVEY: WIRELESS SENSOR NETWORKS IN NODE LOCALIZATION BY TECHNIQUES OF MACHINE LEARNING

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Abstract- Monitoring of dynamic environments that change rapidly with time is the prime application of wireless sensor networks. This change of behavior is reasoned to either certain external factors or limitation of system designs itself in unpredicted causality. To adapt such conditions, machine learning techniques are deemed to be beneficial in eliminating the need for unnecessary redesign. Moreover, the techniques based on the machine learning encourage many practical solutions to maximize usages of resource and thus enhance the lifespan of the sensor network. In this paper, an extensive literature is furnished over machine learning techniques that are used to address the issue of node localization in wireless sensor networks (WSNs). Strengths and weaknesses of each of the proposed algorithms in literature have been analyzed and evaluated against the problem it has been developed. A comparative table is also presented to guide future designers in developing machine learning solutions suitable for specific application challenges in localization.

Keywords: Wireless Sensor Networks; Machine Learning; K-Means; DRPMB;

1. Introduction

Wireless sensor networks (WSNs) typically consist of many damaged components, such as small dimensions, low energies, and low voltages. The components used in the process are used to collect information about their environment and sources of information and data, also known as storage centers, also known as sites that are known to be shut down. These nodes have various sensors, such as acoustics, heat, chemicals, speed, shape, and weather conditions, and are likely to perform powerful jobs.

Creating strategies for using different programs is a difficult task. Topics that most people need to discuss with researchers include: reliable data, data aggregation, node collection, location, events, power recognition routing, security, and problem recognition. Learning Machine (ML) as an Artificial Intelligence (AI) [1] began in the late 1950s. Soon, this process was transformed into different stages and went into details, making it more useful and more powerful. In addition, mechanical engineering systems have been widely used in various fields such as integration and integration in bioinformatics, vocabulary, spam detection, vision computers, fraudulent exposure and marketing.

The automatic learning methods can be obtained through the following methods of operation:

- 1) The creation of computers to learn and solve the problem of access to information thus contributes to the deterioration of work [2].
- 2) Improving the machine manufacturer, designing computer systems to identify and describe the same methods as data processing methods [3].

The programming interface of what is used on the Internet is called transaction. These are essential for the Internet because most applications affect the site [4]. Modern technology uses GPS devices (GPS) for all that is known only. These are necessary and they need strength. In addition, they may not be able to work on modern technology. Some applications use the number of chat rooms and locations can be changed to absolute [5]. To improve the proximity of neighborhoods, it is possible to use the limits of overweight, distance or hybrid of these processes. The measurement of distance is proven by means of different forms such as RSSI, TOA and TDOA. Moreover, the sign of help can be tested with special computers or proteins [6].

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