Review of: "Visualization of Home Security Sensor System Based on IoT Server"

Tanvir Rahman[1]

1 University of Delaware

Potential competing interests: No potential competing interests to declare.

Overview:

Home security is a crucial requirement for individuals everywhere, and this holds true for the context of Indonesia as well. In Indonesia, common security threats include theft due to social inequality factors and fires resulting from homeowner negligence. In light of these challenges, the authors conducted a research study to develop a visualization plan for a home security system that utilizes motion sensors and gas sensors. The objective was to enhance home and family security, reducing the risk of crime and material losses.

The research methodology employed was qualitative, utilizing an experimental approach. The authors conducted comprehensive testing of both the hardware and software components of the system. This enabled them to gain a detailed understanding of the system and evaluate its effectiveness. Data collection methods involved a literature study, field research, and observation.

The authors aimed to create a tool that would facilitate the monitoring of home security when the house is unoccupied, ensuring that potential threats can be detected and addressed promptly. By implementing an IoT-based Arduino system, they sought to examine the effectiveness of this approach in a real home security setting. The ultimate goal was to prevent unwanted incidents by taking proactive measures.

The research study addresses an important need for improved home security in Indonesia. By incorporating motion sensors and gas sensors into the system and leveraging IoT technology, the authors propose a comprehensive approach. Testing both the hardware and software components ensures a thorough evaluation of the system's functionality and performance.

To provide a more comprehensive review, it would be helpful to have additional details regarding the specific experimental setup, expected outcomes, and any limitations encountered during the research. Furthermore, discussing the potential implications and practical applications of the research findings would enhance the overall significance of the study.

In conclusion, the authors' research on a visualization plan for a home security system using motion sensors and gas sensors in Indonesia addresses the pressing need for enhanced security measures. The proposed system, if successfully implemented, has the potential to contribute to the prevention of theft and fires, safeguarding homes, and minimizing material losses.

My Points for the Authors:

1. The idea of the implementation did not seem entirely novel to me. I think we have these kinds of systems available in the market.

2. I would have loved a paragraph about why the authors think that their proposed system is unique.

3. In the literature review the authors tried to show us the tools they have used, they could however focus on other works like their work to juxtapose and present us with the result.

4. The pictures of the tools they have used are posted without references, perhaps they would have liked to attach the sources of the photos.

5. This seems more like a class project, rather than a research paper. However, I would like to encourage them to continue writing like this, soon they will be able to write a good research paper.