

Review of: "Optimized Low-Powered Wide Area Network within Internet of Things"

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Potential competing interests: No potential competing interests to declare.

Congratulations for your paper. It is well written and structured. The topic suggested is of great value. Some comment to the authors:

1. Well written abstract
2. Well written introduction. Just a minor comment. Regarding this statement "The LoRaWAN technology currently enjoys greater popularity because it is supported by the LoRa Alliance, a non-profit association of more than 500 member companies. It is for this reason that this work focuses on this technology." Please either put a reference or rephrase to one of the most popular, because there are other well known. Also please a reference to "Wi-Fi technology does not suit the energy efficiency of Low-Powered Wide Area Network (LPWAN) due to its high power consumption." It is not a common knowledge
3. Related work, please add a summary table with the main findings, consider also presenting a small paragraph in the beginning with various IoT architectures like:
 - a. Farahsari, Pooyan Shams, et al. "A survey on indoor positioning systems for IoT-based applications." *IEEE Internet of Things Journal* 9.10 (2022): 7680-7699.
 - b. Dimara, Asimina, et al. "Self-healing of semantically interoperable smart and prescriptive edge devices in IoT." *Applied Sciences* 12.22 (2022): 11650.
 - c. Ang, Kenneth Li Minn, Jasmine Kah Phooi Seng, and Ericmoore Ngharamike. "Towards crowdsourcing internet of things (crowd-iot): Architectures, security and applications." *Future Internet* 14.2 (2022): 49.
4. Figure 3.2 please better analysis to the icons
5. Please add future work