

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.

The paper's focus and proposed approach appeal to me, especially with regard to WAN within IoT. I found this paper's premise to be really interesting. The paper is easy to read and understand, and its key findings are supported by solid evidence. If the authors are willing to make the revisions I've suggested, I hope they'll resubmit a revised version of their work. My goal in making these comments is to improve the paper's readability and its place in its current context.

- 1) The abstract should not contain any abbreviations; instead, the full word model must be used.
- 2) The abstract of the article is very long, try to limit this section to 250 words.
- 3) Include a bulleted list of the article's most important contributions at the end of introduction section.
- 4) In the related works section in each paragraph, in addition to stating the strengths, the shortcomings and weaknesses of each previous method should also be stated.
- 5) At the end of literature review section, insert a table in which the method, advantages and disadvantages of each of the previous strategies have been briefly reviewed.
- 6) Unfortunately, some of the references are not up to date. For further validation you should use the following new and reliable references related to IoT:

--Sadrishojaei, M. and F. Kazemian, Development of an Enhanced Blockchain Mechanism for Internet of Things Authentication. *Wireless Personal Communications*, 2023: p. 1-19.

--Hosseinzadeh, M., et al., A hybrid delay aware clustered routing approach using Aquila Optimizer and firefly algorithm in internet of things. *Mathematics*, 2022. 10(22): p. 4331.

--Sadrishojaei, M., N.J. Navimipour, M. Reshadi, and M. Hosseinzadeh, An energy-aware scheme for solving the routing problem in the internet of things based on jaya and flower pollination algorithms. *Journal of Ambient Intelligence and Humanized Computing*, 2023: p. 1-10.

--Lansky, J., et al., Development of a lightweight centralized authentication mechanism for the Internet of Things driven by fog. *Mathematics*, 2022. 10(22): p. 4166.

--Sadrishojaei, M., N.J. Navimipour, M. Reshadi, and M. Hosseinzadeh, An energy-aware IoT routing approach based on

a swarm optimization algorithm and a clustering technique. *Wireless Personal Communications*, 2022. 127(4): p. 3449-3465.

7) There are numerous typos and grammar mistakes throughout the piece; please have a native speaker examine the content before submission.

8) The image used for Figure 3.2 is of very poor quality and needs to be updated with a higher resolution version (at least 300 dpi).

9) The conclusion needs to be rewritten so that the meaning is crystal clear and the explanation is less general, elaborating on why this approach is superior to others.

10) Recommendations for further work, a crucial part of any scientific publication, are lacking here.