

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.

1. All the abbreviations must be addressed on their first use. For ex, LPWAN, LoRa, SF etc in the abstract.
2. The sentence in the abstract, "Lastly, different simulation tests of LoRaWAN protocols with respect to throughput, packet loss, delay, data transmission, buffer size, and network density." seems incomplete.
3. The citation [25] appears in the first paragraph, starting the count from [3]. [1] citation appears later in the next paragraph. Citations are not listed sequentially.
4. Figure 3.1 has spelling error in the text.
5. The contributions of the paper should be precisely written showcasing the novelty and uniqueness of the article. It is suggested that the authors should rewrite the contributions section as it is unclear.
6. The acronyms are repeated multiple times throughout the article.
7. In figure 4.5, there appears to be discontinuity in the graph of sigfox. Justify the curve.
8. Is there any mathematical equation available to justify the statement, "It is evident that as the number of nodes (density) decreases, the throughput increases.". Moreover, it seems that the article appears to be superficially written lacking mathematical background.
9. It is advised to the authors that they should check the grammatical errors and sentence formation through some online softwares such as Grammarly.
10. In short, the article needs to be re-written and providing some mathematical base. Justification for all of the results must be strengthened with proper equations and not superficially. The article is hard to follow and very confusing at times.