

### **Basic reporting**

I have added all the review comments in the field for additional comments. The topic of the paper is relevant to the journal.

### **Experimental design**

The Methods section of an experimental paper design details precisely what the research entails. But there are other comments, which are written in the comments below.

### **Validity of the findings**

The authors claimed that their protocol had a good result compared with the standard one, where all analyses and comparisons performed on the data are reported in the paper.

### **Additional comments**

Because of the widespread interest in the topic, conducting research on it in depth could prove to be both necessary and beneficial. On the other hand, the following modifications need to be taken into consideration:

### **Comments: -**

1. The paper is written very well, and the text is easy to understand and not confusing at all.
2. I suggest enhancing figure number 5, and in line 337, the word " figure" appeared twice.
3. A typo with " FCEA".
4. The paper is Partially technically sound and needs to enhance.
5. The flowchart has many typos and needs to enhance.
6. Equation number 1 does not match with the text.
7. Was the comparison made with one protocol? Why?

8. This statement, " When a node receives a packet from the wireless channel, the Layer II handling and processing is performed by the datalink layer while the network stack, e.g., TCP/IP, handles the packet and performs Layer III and IV operations. For example, calculation and verification of the header checksum, verifying the TTL field, etc. Layer IV generally checks and detects errors in the payload" this is not clear and needs to enhance.
9. FCEA has appeared in many places and has typos.
10. The manuscript presents a proposed routing protocol for a wireless mesh network that focuses on reducing energy consumption and improving network lifetime.