May 11th 2024,

Prof. Danilo Demarchi

Editor in Chief

IEEE Transactions on AgriFood Electronics

Dear Prof. Demarchi,

**Revision 3: TAFE-10-0063-2023**

I am pleased to submit the revised manuscript for your consideration. Our responses and revisions are listed below.

Best Regards

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Sudath Rohan Munasinghe

(corresponding Author TAFE-10-0063-2023)

**Review comments and corresponding responses:**

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| Comment | Response |
| Reviewer 1:  In the revised manuscript, no significant data has been added, as suggested in the previous revision. | A scaled-up pilot project has been conducted over the last three months in which 227 mangoes were used. The new results are presented in Fig. 8, and the interpretations are included on page 5, in section 1V Field Test under the three bullets. |
| Reviewer 2:  The paper proposed a method that starts by attaching RFID tags to each tree and each fruit and registering them in the cloud database through RFID scanning, Wi-Fi, and mobile connectivity. The paper is well-written, and the method is correctly presented. The cost of the proposed solution must be evaluated and included in the final version. | On page 5, in section V Conclusion, the cost of the hand device ($25) is mentioned. It is also mentioned that one worker group needs about 10 units, and the total cost could be estimated based on the number of worker groups involved. Typically, mango orchards deploy five worker groups, hence 50 hand-devices.  In addition, cloud database subscription ($75/year), mobile data charge ($100/year), and one-time software development costs ($1600) are involved.  The above cost breakdown has been included in section V Conclusion. |
| Associate Editor  As highlighted by reviewer 1, no new data related to device characterization and field testing has been added although this was asked during the first round of reviews. We would thus suggest another round of "minor reviews", to address this point or at least highlight the novelty of the work, e.g., as a solution towards a local problem addressed in an underprivileged geographical location, where conducting systematic studies can be challenging.  Also, please address the cost issue raised by reviewer 2. | It was very tough to implement a proper pilot project initially primarily due to the economic situation prevailing in Sri Lanka. However, we managed to implement a sizable pilot including 227 mangoes, over the last three months. The new results are presented in Fig.8, and interpreted in section IV Field Test.  The cost can be broken down as follows: 50 field units ($1250), cloud database subscription ($75/year), mobile data charge ($100/year), and one-time software development costs ($1600). The mobile phone, which is used just once for initial tree registration is not included as a cost. |