

Dear Editors and Reviewers:

Thank you for the reviewers' comments concerning our manuscript entitled "Using Machine Learning Methods to Provision Virtual Sensors in Sensor-cloud". (Manuscript ID: sensors-740582). Those comments are all valuable and very helpful for revising and improving our paper, as well as the important guiding significance to our researches. We have studied comments carefully and have made correction which we hope meet with approval. The main corrections in the paper are marked by the red color and the responds to the reviewers' comments are following:

Point 1: The number mark formats of references are inconsistent.

Response: We have changed the incorrect number mark and readjust the references. Thanks for your good instruction.

Point 2: Please explain the meaning of ' μ ' in Algorithm 1;

Response: In Algorithm 1, ' μ ' denotes the cluster centroid of the samples.

Point 3: What does Title 2 mean in Table 2? I suggest finding a clear title to replace 'Title2';

Response: We are sorry for this mistake, the 'Title2' has changed to 'Physical sensors'.

Point 4: The sub-heading of Figure 3 is not centered, it is recommended to readjust the layout of the figure;

Response: We readjust the sub-heading and figure size of Figure 3. However, the layout is difficult to control in my Texlive2019.

Point 5: The number labels are duplicated in reference section;

Response: We have deleted the duplicated number labels in reference. Thanks for your good instruction.

Point 6: Some typo errors occurred in the manuscript, it is suggested to proof carefully;

Response: As the reviewer's good instruction, we have checked this paper carefully and tried our best to correct grammar errors and typos in this paper. Some of the changes are as follows:

(1) On page 2 line 54, "However numerous unnecessary....." are modified to "However, this method results in increased energy consumption."

(2) On page 2 line 56, "both costs of user and sensor....." are modified to "As a result, the cost for users also increases."

(3) On page 3 line 80 ".....the same measurements may in different changing trends....." are modified to ".....the physical sensors with the similar measurement values may have different changing trends."

(4) And so on.

Point 7: Authors are suggested to review more new and relevant research to support their research contribution. The following references should be considered:

[1]"Adaptive Data and Verified Message Disjoint Security Routing for Gathering Big Data in Energy Harvesting Networks," Journal of Parallel and Distributed Computing, vol. 135, pp. 140-155, 2020.

[2] "A Novel Load Balancing and Low Response Delay Framework for Edge-Cloud Network based on SDN" IEEE Internet of Things Journal. DoI: 10.1109/JIOT.2019.2951857, 2019.

[3] Machine Learning based Code Dissemination by Selection of Reliability Mobile Vehicles in 5G Networks. Computer Communications. vol. 152, 109-118, 2020.

Response: As the reviewer's kindly suggestion, we add all the references in our article to support our research contribution. The details are on page 3 line 64 and page 4 line 121.

Dear Editors and Reviewers. We have tried our best to revise and improve the manuscript and made changes in the manuscript according to the reviewers' good comments. We appreciate for Editors/Reviewers' warm work earnestly, and hope that the corrections will meet with approval. Once again, thank you very much for your comments and suggestions.

We look forward to your information about my revised papers and thank you for your good comments.

Yours sincerely,

Mingzheng Zhang