

Paper #: sensors-1887577

Title: A Cluster-Driven Adaptive Training Approach for Federated Learning

Authors: Younghwan Jeong , Taeyoon Kim*

Response to Reviewer 1 Comments (round2)

Dear Editor and Reviewers,

We appreciate your time taken to review our submission and thank you for the valuable comments. We have carefully revised our paper taking into consideration your comments and suggestions. The following are detailed responses to the comments.

Point 1: Table I should include the proposed mechanism as well for convenient comparison.

Response 1: Thank you for your valuable comment. As you pointed out, we have added our proposed method in Table 1 for a clear comparison.

Point 2: The font in the figures (e.g., Figure 1-9) needs to be enlarged to let readers see clearly.

Response 2: Thank you for your valuable comment and we have enlarged the font size of Figure 1-9 for the reader's visibility. Please check the revised figures in the manuscript.

Point 3: Adding citations to well-known worldwide journals (especially publications in recent years) would inspire people in its research community to take an interest in this presentation.

Response 3: We appreciate your valuable comment and agree with your advice. As you suggested, we have added recently published articles from well-known international journals to the reference as follows.

- **Added references:**

[4] Nguyen, D. C.; Ding, M.; Pathirana, P. N.; Seneviratne, A.; Li, J.; Poor, H. V.; Federated learning for internet of things: A comprehensive survey. IEEE Commun. Surv. Tutor. 2021, Vol. 23, No. 3, pp. 1622-1658.

[5] Feng, C.; Yang, H. H.; Hu, D.; Zhao, Z.; Quek, T. Q. S.; Min, G.; Mobility-Aware Cluster Federated Learning in Hierarchical Wireless Networks IEEE Trans. Wirel. Commun. 2022, pp. 1-18. (in press)

[11] You, L.; Liu, S.; Chang, Y.; Yuen, C. A triple-step asynchronous federated learning mechanism for client activation, interaction optimization, and aggregation enhancement. IEEE Internet Things J. 2022, pp. 1-13. (in press)