What is **federated learning**?

Federated learning [1, 2] is a kind of distributed learning.

How does federated learning differ from traditional distributed learning?

1. Users have control over their device and data.

2. Worker nodes are unstable.

3. Communication cost is higher than computation cost.

References

1. McMahan and others: Communication-efficient learning of deep networks from decentralized data. In *AISTATS*, 2017.
2. Konevcny, McMahan, and Ramage: Federated optimization: distributed optimization beyond the datacenter. *arXiv:1511.03575*, 2015