

SiFT: A Serial Framework with Textual Guidance for Federated Learning [Supplementary Material]

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Table 1. The specific details of the three datasets we used including HAM10000, OrganSMNIST and OrganCMNIST.

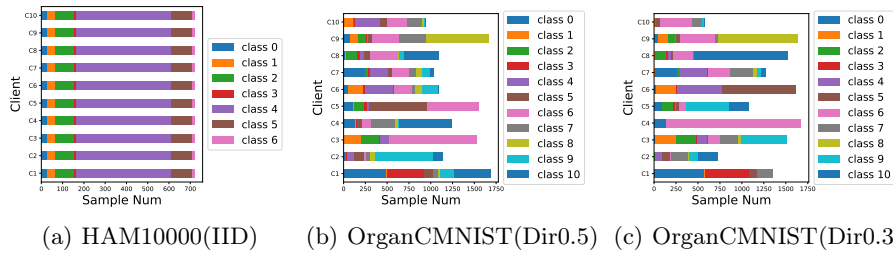
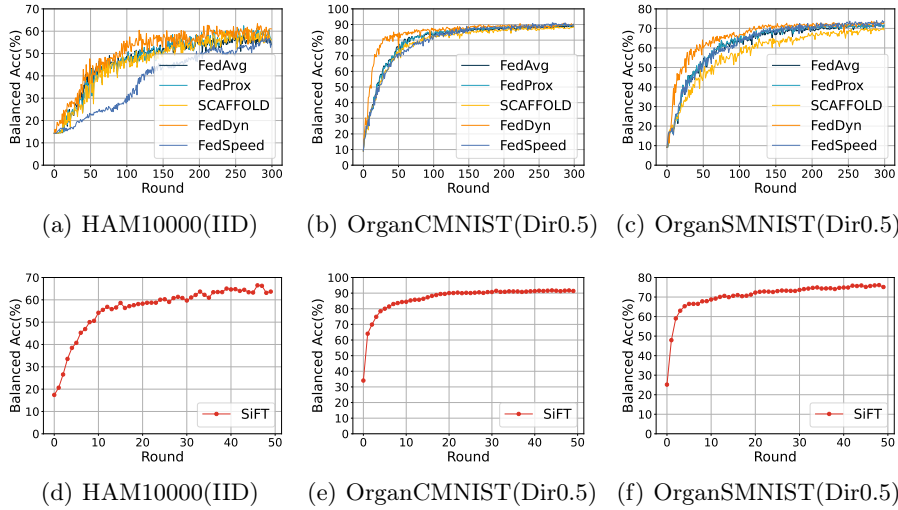
Dataset	Data Modality	Classes	Train Set	Test Set	Image Size
HAM10000	Dermatoscope	7	7258	2757	224 × 224
OrganCMNIST	Abdominal CT	11	13000	8268	224 × 224
OrganSMNIST	Abdominal CT	11	13940	8829	224 × 224

Table 2. The centrally hosting balanced accuracy(%) for each medical dataset. We reported the performance for one original ResNet18(w/o TG) and ResNet18 w/ textual guidance(w/ TG) following SiFT.

Dataset	w/o TG	w/ TG
HAM10000	56.439	61.366
OrganCMNIST	90.614	91.651
OrganSMNIST	73.870	74.927

Table 3. The supplementary ablation study that initiates the weight matrix of classifier head as in SiFT but allows this weight matrix to be trainable(TrainableMatrix).

Method	HAM10000	OrganCMNIST		OrganSMNIST	
	IID	Dir 0.5	Dir 0.3	Dir 0.5	Dir 0.3
SiFT	63.625±1.78	91.522±0.10	90.234±0.25	74.825±0.65	74.595±0.48
TrainableMatrix	43.924	88.854	88.007	70.340	69.228

**Fig. 1.** The data distribution across clients of HAM10000 and OrganCMNIST.**Fig. 2.** Performance of various methods on the test set of medical datasets over learning rounds.