
Is Normalization Indispensable for Multi-domain Federated Learning?

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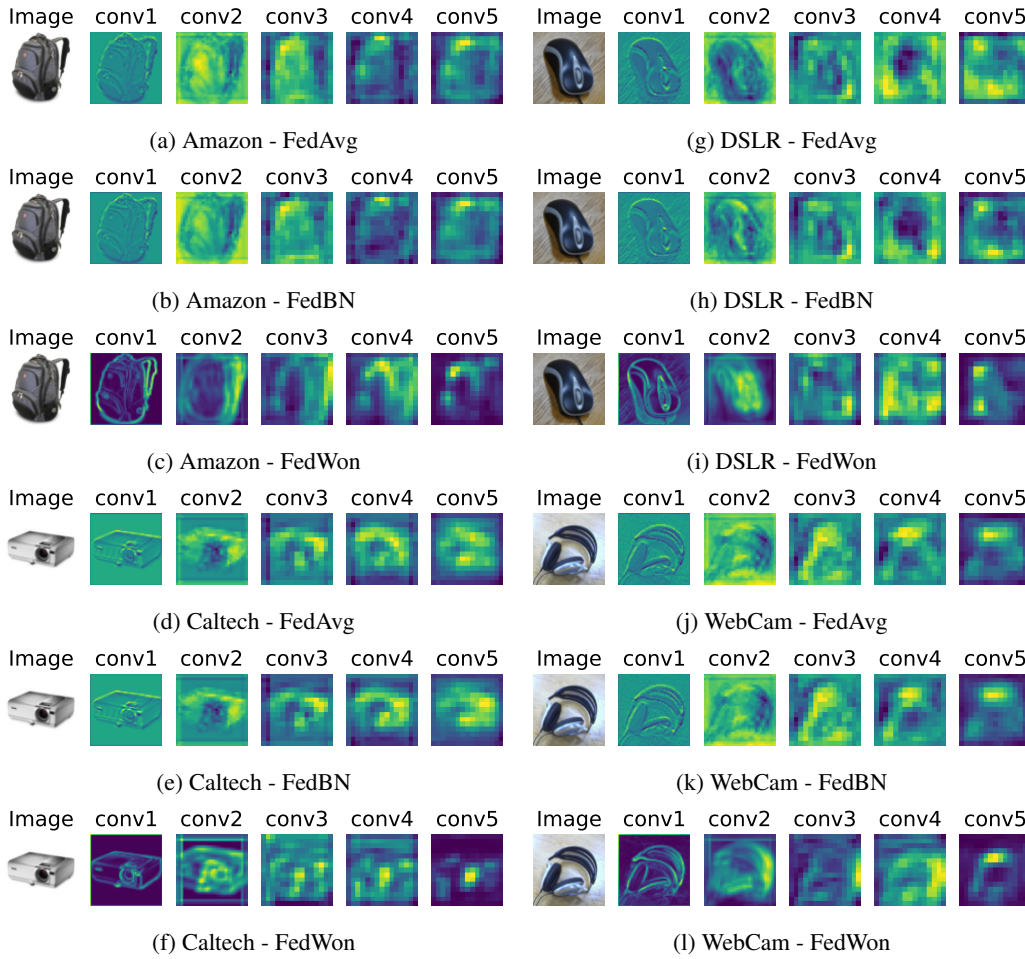


Figure 1: Visualization of feature maps of FedAvg, FedBN, and our proposed FedWon on the Office-Caltech-10 dataset, which contain four domains: Amazon, Caltech, DSLR, and WebCam.

1 Figure 1 presents the visualization of feature maps obtained through three methods: FedAvg, FedBN,
2 and our newly proposed FedWon. These feature maps are the output of each convolution layer in
3 AlexNet on Office-Caltech-10 dataset, which encompasses data from four distinct domains, namely
4 Amazon, Caltech, DSLR, and WebCam. FedWon methodology exhibit significantly enhanced
5 activations on object representations compared to those produced by the FedAvg and FedBN.