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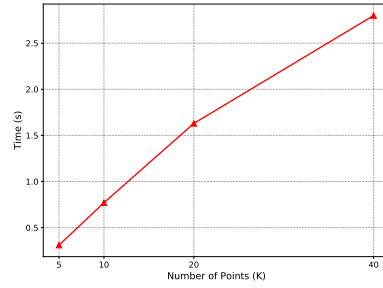*Figure 1.* Clustering performance comparison on Cifar100 dataset with R=0.1.

Figure 2. Time cost on Cifar10 dataset with different data scales.

(a) MFLVC   (b) CSOT   (c) GCFAggMVC   (d) SEM   (e) PROTOCOL
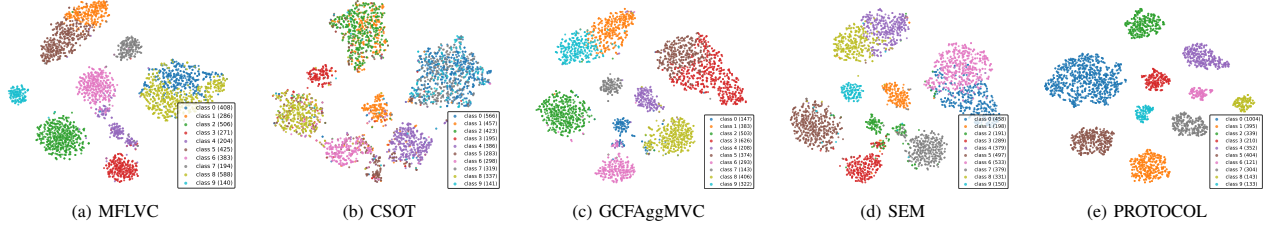
Figure 3. The t-SNE visualization on Hdigit dataset (R=0.05). PROTOCOL demonstrates the ability to identify smaller clusters and clearly distinguish cluster structures of different sizes.