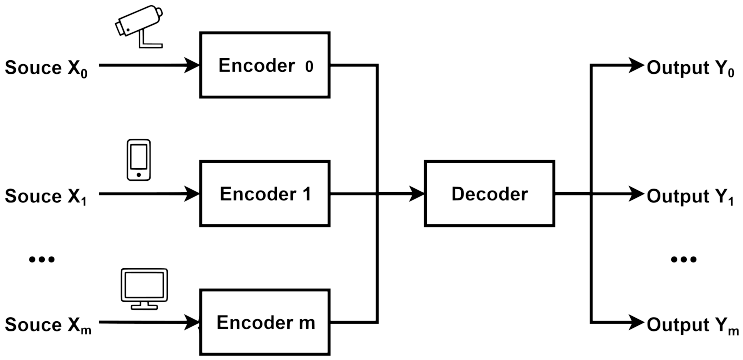

Figure 1: Illustration of Deep Distributed Source Coding.

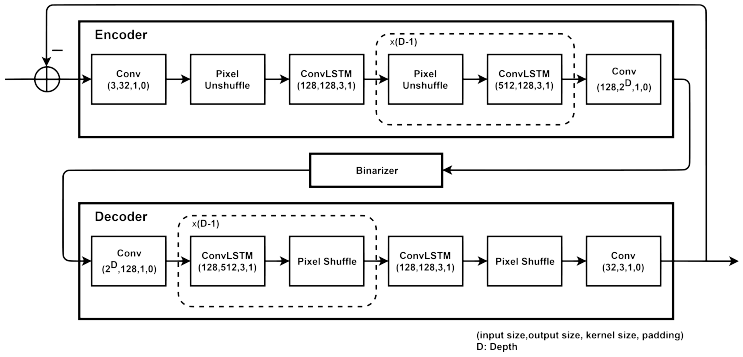

Figure 2: Illustration of pixel-shuffled symmetric Encoder-Decoder architecture.

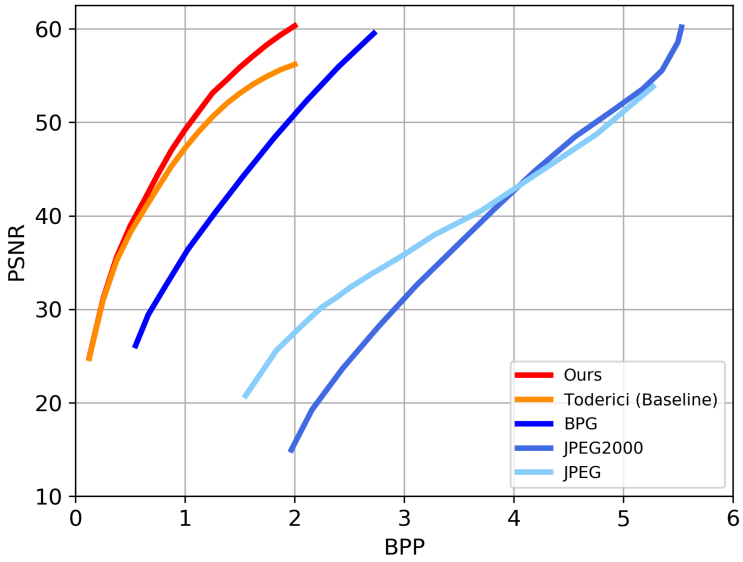

Figure 3: Our symmetric pixel-shuffled Encoder-Decoder outperforms classical codecs and baseline neural network-based codecs.

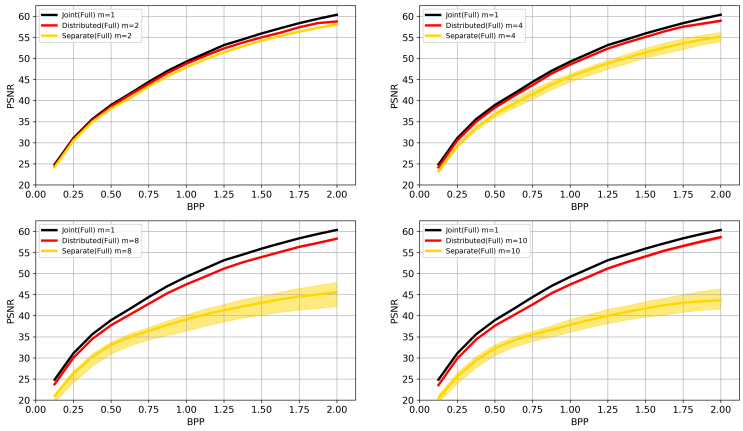

Figure 4: Rate-distortion curves for data sources distributed by random subsets with $T = 16$ for all sources.

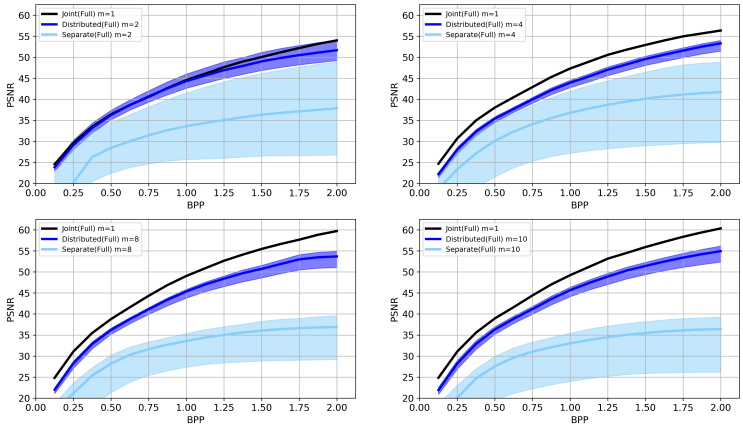

Figure 5: Rate-distortion curves for data sources distributed by class labels with $T = 16$ for all sources.

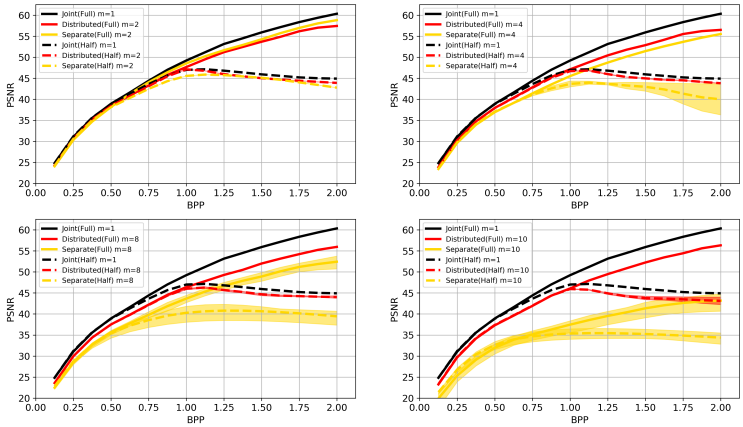

Figure 6: Rate-distortion curves for data sources distributed by random subsets with $T = 16$ for the first half of sources and $T = 8$ for the second half of sources.

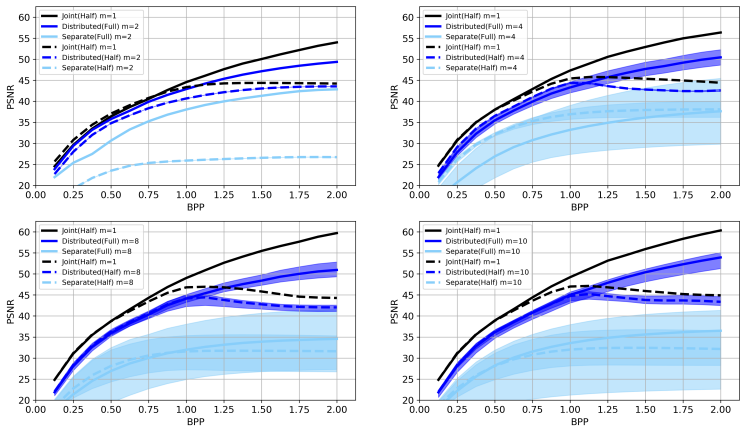

Figure 7: Rate-distortion curves for data sources distributed by class labels with $T = 16$ for the first half of sources and $T = 8$ for the second half of sources.

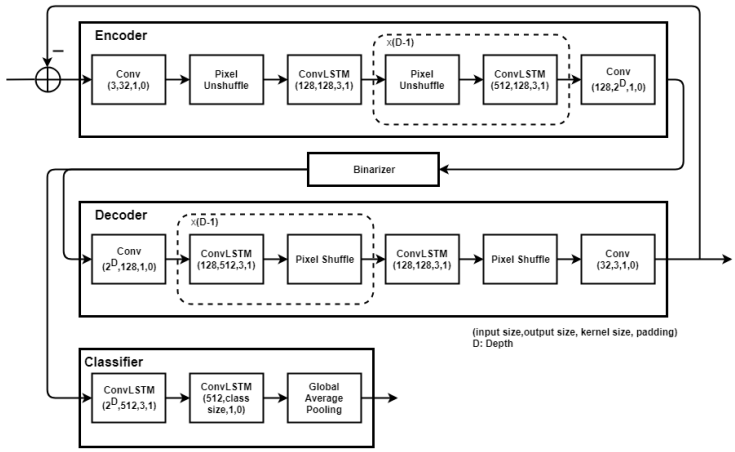

Figure 8: Illustration of pixel-shuffled symmetric Encoder-Decoder architecture with Classifier.

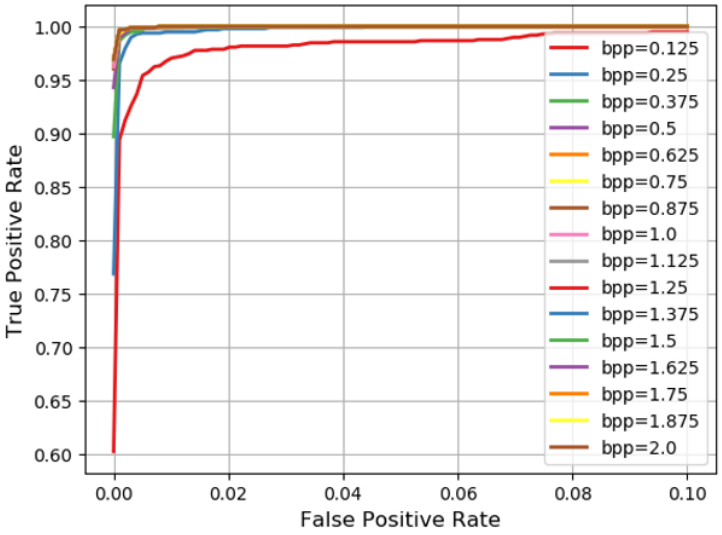

Figure 9: ROC curve of classification on compressed data for MNIST dataset.

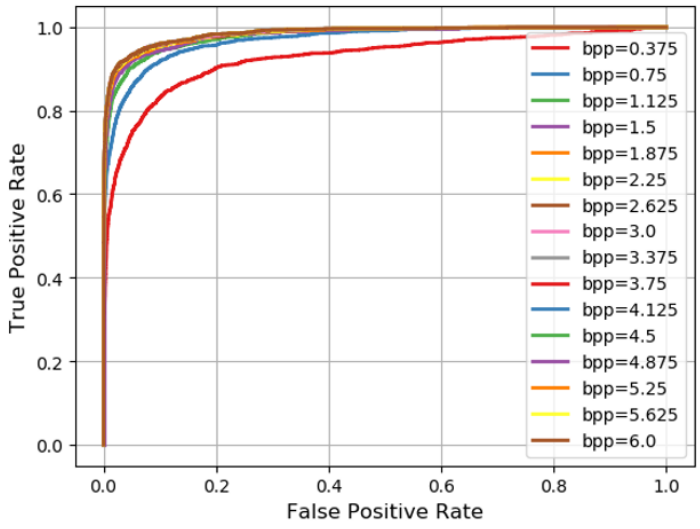

Figure 10: ROC curve of classification on compressed data for SVHN dataset.