

# Pose-robust and Discriminative Feature Representation by Multi-task Deep Learning for Multi-view Face Recognition

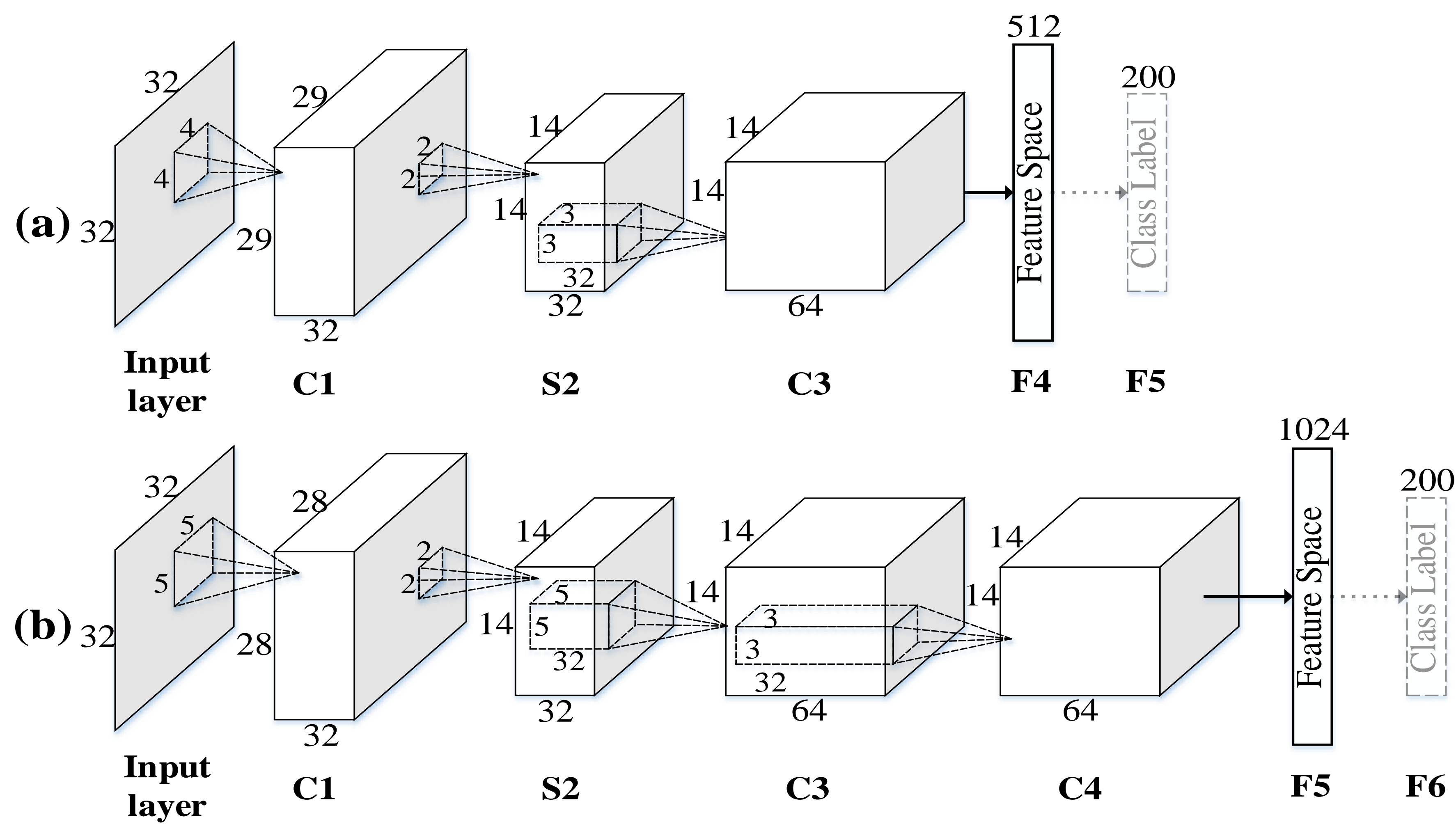
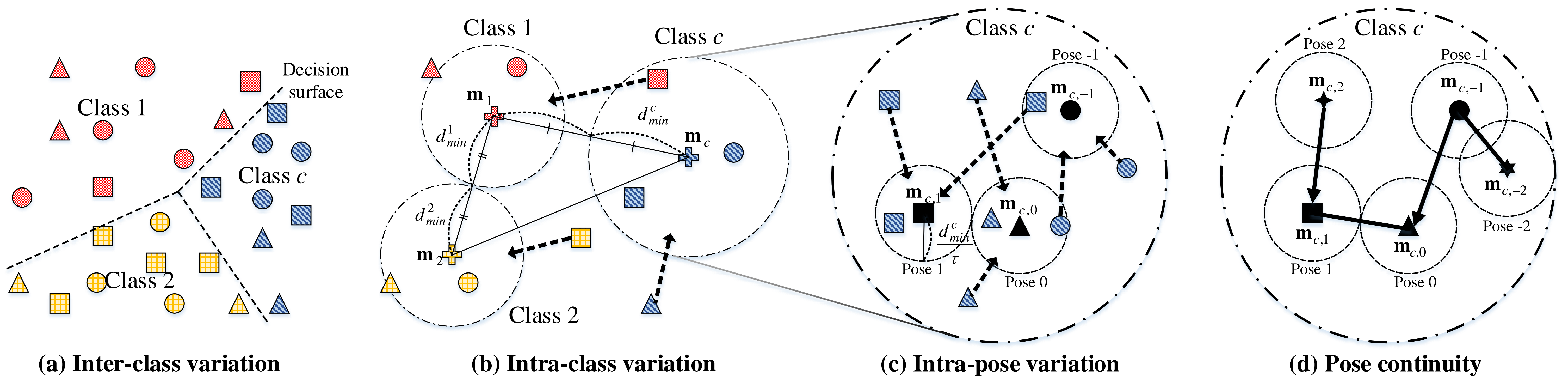
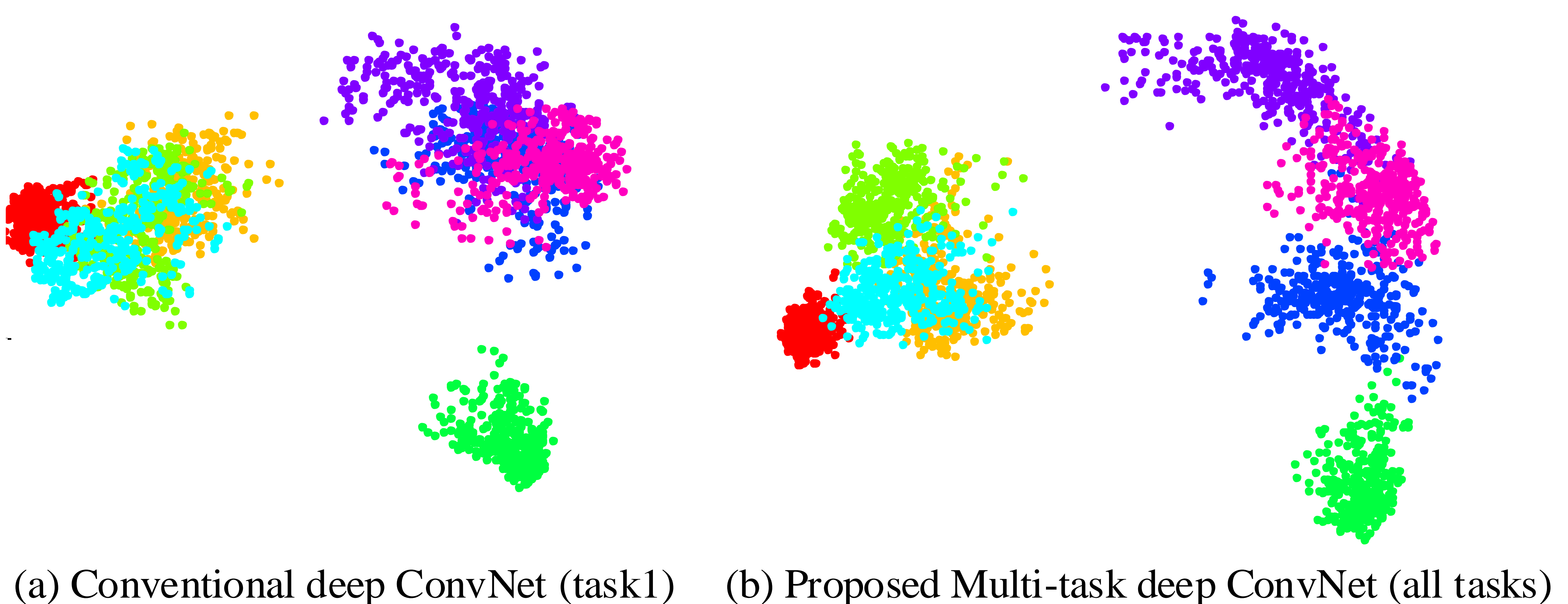


Figure 3. Architectures of ConvNets in our experiments. (a) ConvNet for Setting-I (b) ConvNet for Setting-II. (C: convolutional layer, S: subsampling layer, F: fully-connected layer)



Visualization of error functions for our multi-task learning in deep ConvNet. The feature vector of the samples in each class are represented by the same color, and various poses are represented by different shapes.



Visualization of sample distribution in learned feature space. Each dot represents a sample, and 8 classes are plotted with different colors. (a) Results of conventional deep ConvNets. (b) Results of the proposed multi-task deep ConvNets (best viewed in color).