Figure 11 Results of 1-channel dataset, 2-channel dataset and 3-channel dataset: (a) Train loss function, (b) Val loss function, (c) Train accuracy, (d) Val accuracy

Figure 12 Confusion matrices: (a) 1-channel dataset, (b) 2-channel dataset, (c) 3-channel dataset
Figure 13 Cluster analysis: (a) 1-channel dataset, (b) 2-channel dataset, (c) 3-channel dataset

Figure 14 Results of AU-N, AU-2, AU-4 and AU-8 dataset: (a) Train loss function, (b) Val loss function, (c) Train accuracy, (d) Val accuracy.
Figure 15 Confusion matrices: (a) AU-N dataset, (b) AU-2 dataset, (c) AU-4 dataset, (d) AU-8 dataset.
Figure 16 Cluster analysis: (a) AU-N dataset, (b) AU-2 dataset, (c) AU-4 dataset, (d) AU-8 dataset
Figure 17 Results of AU-N, AU-2, AU-4 and AU-8 dataset: (a) Train loss function, (b) Val loss function, (c) Train accuracy, (d) Val accuracy.
Figure 18 Confusion matrices: (a) AU-N dataset, (b) AU-2 dataset, (c) AU-4 dataset, (d) AU-8 dataset.
Figure 19 Cluster analysis: (a) AU-N dataset, (b) AU-2 dataset, (c) AU-4 dataset, (d) AU-8 dataset.