

Weekly Report

Riku Gondow

January 23, 2023

1 Progress

- Continued to write bachelor thesis
- Did 10-fold cross validation under the close-set conditions and the open-set conditions on clean 30-subjects dataset

2 10-fold cross validation

10-fold cross validation was performed under the close-set conditions and the open-set conditions to confirm the classification accuracy. As shown in Fig.1, 2, we got 99.94% (close-set) and 99.02% (open-set).

Table 1: Experimental parameters

Number of classes	30
Knowns classes (for open-set)	15
Unknowns classes (for open-set)	15
Batch size	64
Learning rate	0.0001
Window length (s)	5
Overlap (s)	1.5
Sampling rate (Hz)	250

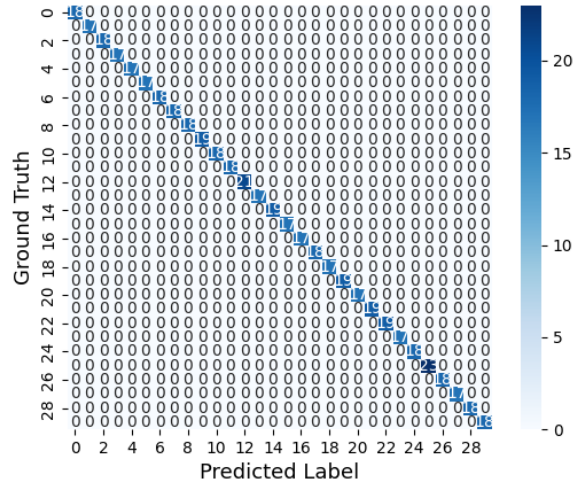


Figure 1: Confusion matrix of 10-fold cross validation under the close-set conditions, Fold 0

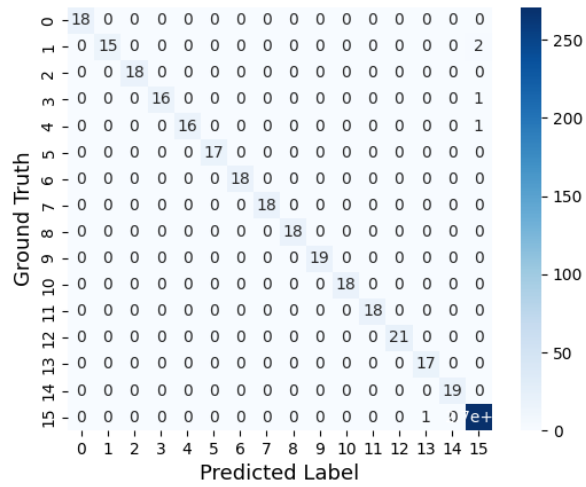


Figure 2: Confusion matrix of 10-fold cross validation under the open-set conditions, Fold 0, Threshold 0.8

3 Next Plan

- Continue to write bachelor thesis
 - Visualize feature maps
- Perform 10-fold cross validation for Keio Hospital's Dataset