

TABLE OF FIGURES

Figure 2. 1 Electrode placement	5
Figure 2. 2 Structure of a forward-pass CNN.....	9
Figure 3. 1 Research System Model Block Diagram.....	11
Figure 3. 2 Data Acquisition Schema	12
Figure 4. 1 Header File Format Structure Of EDF File "Juan_Kanan.EDF".....	26
Figure 4. 2 Plot Channel Of The Data Recording From The EDF File Format "Respondent_1a.EDF." using EEGLab.....	27
Figure 4. 3 Conventional 10–20 EEG Electrode Positions For The Placement Of 21 Electrodes.....	28
Figure 4. 4 The Results Of Bandpass Filter from The File "Patient_1a.EDF”	30
Figure 4. 5 The Results Of EEG Signal Decomposition Using ICA From The File "Respondent_1a.EDF”	33
Figure 4. 6 Result of Feature Extraction using Power Spectral Density from File "Respondent_1a.EDF"	36
Figure 4. 7 Result of CNN Training Process in MATLAB	38
Figure 4. 8 Result of Precision Testing.....	39
Figure 4. 9 Result of Recall Testing	40
Figure 4. 10 Result of F-Measure Testing	40
Figure 4. 11 Result of Accuracy Testing	41