Abstract

ECG signals have an important role in the primary diagnosis, prognosis and survival analysis of heart disease. Electrocardiography has had a major influence on the practice of medicine. Electrocardiogram signal contains important information that can be utilized in different ways. ECG signal allows for the analysis of anatomical and physiological aspects of the heart muscle an overall. ECG signals are often contaminated by various kinds of noise, such as baseline wander (BW), electrode contact noise and motion artifacts (MA). In this Final various noise contained in the ECG signal is removed (denoising) using the method of learning is Deep Stacked Denoising AutoEncoder (SDAE). Deep Learning focuses on finding representation multilevel features are where the high level features representing more abstract aspects of the data. With Deep Learning, noise in the ECG signal data can be processed by SDAE to produce clean ECG signal data.

Keywords: ECG, Deep Neural Network, SDAE.