

PAPER REVIEW 2022-01-10

Dongwook Kwon

Arrhythmia Detection from 2-lead ECG using Convolutional Denoising Autoencoders

Keiichi Ochiai NTT DOCOMO, INC. ochiaike@nttdocomo.com Shu Takahashi* SAS Institute Japan Ltd. shu.takahashi@sas.com Yusuke Fukazawa NTT DOCOMO, INC. fukazawayu@nttdocomo.com

Biomedical Signal Processing and Control 71 (2022) 103228



Contents lists available at ScienceDirect

Biomedical Signal Processing and Control

journal homepage: www.elsevier.com/locate/bspc

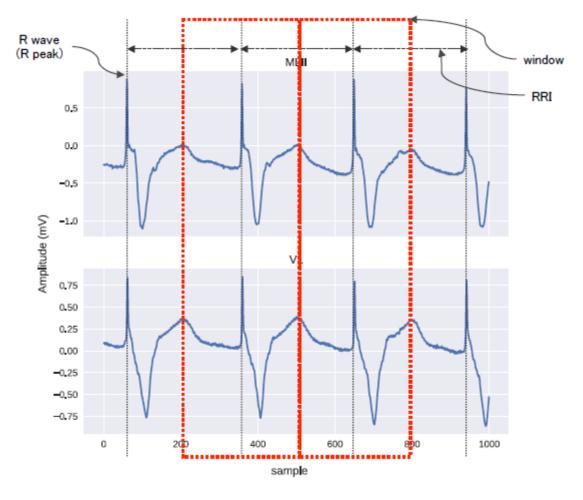


Arrhythmia classification of LSTM autoencoder based on time series anomaly detection



Heilongiiang Province Key Laboratory of Laser Spectroscopy Technology and Application, Harbin University of Science and Technology, Harbin 150080, China





Multivariate Time Series Data

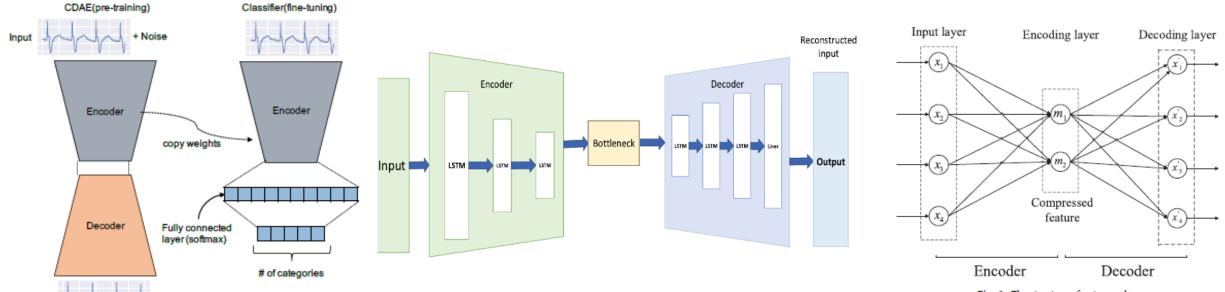
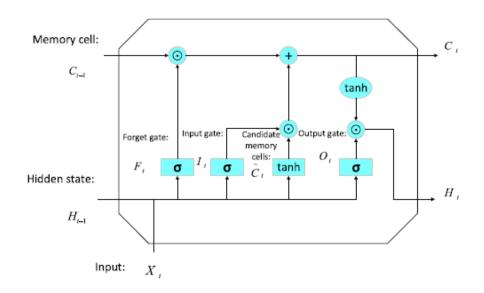
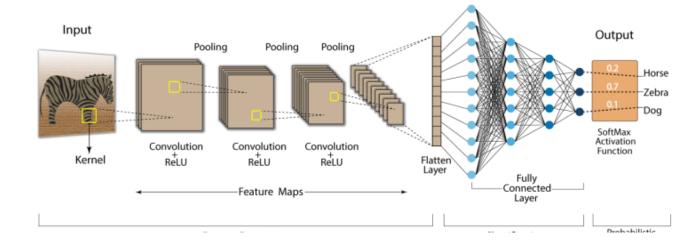


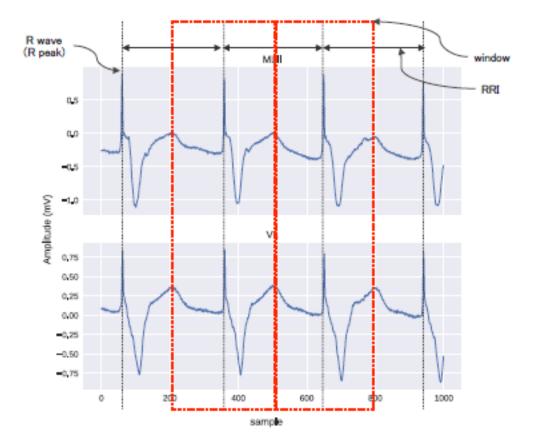
Fig. 6. The structure of autoencoder.

Auto Encoder



CONVOIUTION NEURAL NETWORK (CNN)





Anomaly Detection