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Nomenclature

Acronyms / Abbreviations

AC Autocorrelation

ALS Amyotrophic Lateral Sclerosis

AUC area under the ROC curve

BCI Brain-Computer Interface

Bior Biorthogonal wavelets

CA Channel Attention

CBAM Convolutional block attention module

CF Crest Factor

Cgau8 Complex gaussian wavelet

CJD Creutzfeldt-Jakob Disease

Coif Coiflets

CV Coefficient of Variation

Db Daubechies wavelets

DNN Deep Neural Networks

DT Decision Tree

DWT Discrete Wavelet Transform

EEG Electroencephalogram

EMG Electromyogram

ERD Event-Related Desynchronization

Fbsp Frequency B Spline wavelet

FN False Negatives

FP False Positives

HD Huntington's disease

HR Harmonic Ratios

IMU Inertial Measurement Units

KNN K-Nearest Neighbors

LR Logistic Regression

LSTM Long Short-Term Memory

MAV Mean Absolute Value

MDF Median Frequency

Mexh Mexican hat wavelet

MGAS Medial gastrocne- mius

ML Machine Learning

MLP Multi-layer perceptron

MNF Mean Frequency

MNP Mean Power

MSA Multiple System Atrophy

NB Naïve Bayes

NDD Neurodegenerative Diseases

PD Parkinson's disease

PIVD Prolapsed Intervertebral Disc

PPV Peak-to-Peak Value

PRC Precision-Recall Coverage

PSD Power Spectral Density

PSP Progressive Supranuclear Palsy

RA Rheumatoid Arthritis

ReLU Rectified Linear Unit

CNN Convolution Neural Networks

CWT Continuous Wavelet Transform

RF Random Forest

RMS Root Mean Square

ROC Receiver Operating Characteristic

SA Spatial Attention

SB Spectral Bandwidth

SC Spectral Centroid

SD Standard Deviation

SE Spectral Entropy

SF Spectral Flatness

SGD Stochastic gradient descent

Shan Shannon wavelet

SM1 Spectral Moments 1

SM2 Spectral Moments 2

SM3 Spectral Moments 3

SVM Support Vector Machine

Sym Symlets

TA Tibialis anterior

TN True Negatives

TP True Positives

MNF Total Power

VCF Variance Central Frequency

vGRF Vertical ground reaction force

ZC Zero Crossing