

List of abbreviations

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|------------------|---|-----|
| AA | Arm Abductions, | 24 |
| Acc _L | Longitudinal Acceleration, | 87 |
| Acc _T | Transversal Acceleration, | 87 |
| ADO | Age Dyspnoea airflow Obstruction, | 38 |
| AUC | Area Under the Curve, | 41 |
| BMI | Body Mass Index, | 38 |
| COPD | Chronic Obstructive Pulmonary Disease, | 1 |
| CRNT | Context Recognition Network Toolbox, | 7 |
| CVD | Cardiovascular Diseases, | 16 |
| DDSB | Duration of Daytime Sleeping Bouts, | 62 |
| DLCO | Diffusion Capacity of the Lung for Carbon Monoxide, | 38 |
| DNSB | Duration of Nocturnal Sleeping Bouts, | 62 |
| DOF | Degree Of Freedom, | 12 |
| DPGMM | Dirichlet Process Gaussian Mixture Model, | 84 |
| EB | Elbow Breathing, | 24 |
| EC | Elbow Circles, | 24 |
| ECDF | Empirical Cumulative Distribution Function, | 106 |
| ECG | Electrocardiogram, | 12 |
| EE | Energy Expenditure, | 39 |
| FEV ₁ | Forced Expiratory Volume in the first 1 second, | 38 |
| FVC | Forced Vital Capacity, | 38 |
| GOLD | Global Initiative for Chronic Obstructive Lung Disease, | 39 |
| GSR | Galvanic Skin Response, | 86 |
| HRV | Heart Rate Variability, | 101 |
| IB | Intensity Bout, | 85 |
| IC | Intensity Category, | 87 |
| IDF | Inverse Document Frequency, | 89 |
| JSON | JavaScript Object Notation, | 9 |
| KE | Knee Extensions, | 24 |
| L | Light, | 105 |
| LDA | Latent Dirichlet Allocation, | 84 |
| LL | Leg Lifts, | 24 |
| LMM | Linear Mixed-effect Models, | 67 |
| LS | Least Squares, | 68 |
| LTOT | Long-Term Oxygen Therapy, | 38 |
| MCFS | Multi-Cluster Feature Selection, | 87 |
| MET | Metabolic Equivalent of Task, | 39 |
| mMRC | modified Medical Research Council, | 38 |
| MV | Moderate to Vigorous, | 105 |
| NDSB | Number of Daytime Sleeping Bouts, | 62 |
| NNSB | Number of Nocturnal Sleeping Bouts, | 62 |
| OSA | Obstructive Sleep Apnoea, | 77 |