

# List of abbreviations

AA	Arm Abductions,	24
Acc <sub>L</sub>	Longitudinal Acceleration,	87
Acc <sub>T</sub>	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 <sub>1</sub>	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