

Table 1. List of parameters of the multisensor wearable device (Biovotion Everion), aggregation approach for downsampling, and computed daily summary features

Sensor	Parameter	Description	Unit	Downsampling	Daily features
Accelerometer	ActivityClass	Categorical parameter. Type of physical activity: 0 = undefined, 1 = resting, 9 = other, 10 = biking, 11 = running, 12 = walking	-	Mode	Count per category: One-hot encoding
	ActivityCounts	The activity value indicates the intensity of motion (activity)	-	Sum	Mean, SD, Median, Max., Min., Skewness, Kurtosis, 5 th and 95 th percentile, FFT, PSD, Sum
	Steps	Number of steps	-	Sum	Mean, SD, Median, Max., Min., Skewness, Kurtosis, 5 th and 95 th percentile, FFT, PSD, Sum
Photoplethysmography	EnergyExpenditure	Amount of energy a person uses to complete all regular bodily functions, measured in calories	Calories/s	Sum	Mean, SD, Median, Max., Min., Skewness, Kurtosis, 5 th and 95 th percentile, FFT, PSD, Sum
	HR	Heart Rate	bpm	Quality-weighted average	Mean, SD, Median, Max., Min., Skewness, Kurtosis, 5 th and 95 th percentile, FFT, PSD
	HRV	Heart rate variability. Indicates the beat to beat variations.	ms	Quality-weighted average	Mean, SD, Median, Max., Min., Skewness, Kurtosis, 5 th and 95 th percentile, FFT, PSD
Temperature	RESP	Respiration rate. Number of breaths a person takes per minute	bpm	Quality-weighted average	Mean, SD, Median, Max., Min., Skewness, Kurtosis, 5 th and 95 th percentile, FFT, PSD
	BloodPerfusion	Blood perfusion can be measured as the percentage change in blood volume in local tissue resulting from a heartbeat	-	Median	Mean, SD, Median, Max., Min., Skewness, Kurtosis, 5 th and 95 th percentile, FFT, PSD
	BloodPulseWave	Blood is ejected generating a pulse wave when the heart contracts	-	Median	Mean, SD, Median, Max., Min., Skewness, Kurtosis, 5 th and 95 th percentile, FFT, PSD
Galvanic Skin Response	SkinTemperature	Skin temperature	°C	Median	Mean, SD, Median, Max., Min., Skewness, Kurtosis, 5 th and 95 th percentile, FFT, PSD
	GalvanicsSkinResponse	Describes changes in the electrical conductivity of the skin. It is a measure of emotional arousal	kOhm	Mean	Mean, SD, Median, Max., Min., Skewness, Kurtosis, 5 th and 95 th percentile, FFT, PSD
	Barometer	Barometric pressure measures changes of altitude	mbar	Median	Mean, SD, Median, Max., Min., Skewness, Kurtosis, 5 th and 95 th percentile, FFT, PSD
HR, heart rate; HRV, heart rate variability; RESP, respiratory rate; SD, standard deviation; Max., maximum; Min., minimum; FFT, fast Fourier transform (amplitude and frequency of 2nd to 5th peaks); PSD, power spectral density (amplitude and frequency of 2nd to 5th peaks).					