	Automated Feature Extraction from Accelerometer Data
	Field Definitions
Name	**Description**
meanX	mean of the X acceleration series
sdX	standard deviation of the X acceleration series
modeX	mode of the X acceleration series
skewX	skewness of the X acceleration series
kurX	kurtosis of the X acceleration series
q1X	first quartile of the X acceleration series
medianX	median of the X acceleration series
q3X	third quartile of the X acceleration series
iqrX	interquartile range of the X acceleration series
rangeX	range of the X acceleration series
acfX	autocorrelation (lag = 1) of the X acceleration series
zcrX	zero-crossing rate of the X acceleration series
dfaX	scaling exponent of the detrended fluctuation analysis of the X acceleration series
cvX	coefficient of variation of the X acceleration series
tkeoX	teager-kaiser energy operator of the X acceleration series
F0X	frequency at which the maximum peak of the Lomb-Scargle periodogram occured for the X acceleration series
P0X	maximum power in the inspected frequency interval of the Lomb-Scargle periodogram for the X acceleration series
meanY	mean of the Y acceleration series
sdY	standard deviation of the Y acceleration series
modeY	mode of the Y acceleration series
skewY	skewness of the Y acceleration series
kurY	kurtosis of the Y acceleration series
q1Y	first quartile of the Y acceleration series
medianY	median of the Y acceleration series
q3Y	third quartile of the Y acceleration series
iqrY	interquartile range of the Y acceleration series
rangeY	range of the Y acceleration series
acfY	autocorrelation (lag = 1) of the Y acceleration series
zcrY	zero-crossing rate of the Y acceleration series
dfaY	scaling exponent of the detrended fluctuation analysis of the Y acceleration series
cvY	coefficient of variation of the Y acceleration series
tkeoY	teager-kaiser energy operator of the Y acceleration series
F0Y	frequency at which the maximum peak of the Lomb-Scargle periodogram occured for the Y acceleration series
P0Y	maximum power in the inspected frequency interval of the Lomb-Scargle periodogram for the Y acceleration series
meanZ	mean of the Z acceleration series
sdZ	standard deviation of the Z acceleration series
modeZ	mode of the Z acceleration series
skewZ	skewness of the Z acceleration series
kurZ	kurtosis of the Z acceleration series

q1Z	first quartile of the Z acceleration series
medianZ	median of the Z acceleration series
q3Z	third quartile of the Z acceleration series
iqrZ	interquartile range of the Z acceleration series
rangeZ	range of the Z acceleration series
acfZ	autocorrelation (lag = 1) of the Z acceleration series
zcrZ	zero-crossing rate of the Z acceleration series
dfaZ	scaling exponent of the detrended fluctuation analysis of the Z acceleration series
cvZ	coefficient of variation of the Z acceleration series
tkeoZ	teager-kaiser energy operator of the Z acceleration series
F0Z	frequency at which the maximum peak of the Lomb-Scargle periodogram occured for the Z acceleration series
P0Z	maximum power in the inspected frequency interval of the Lomb-Scargle periodogram for the Z acceleration series
meanAA	mean of the average acceleration series
sdAA	standard deviation of the average acceleration series
modeAA	mode of the average acceleration series
skewAA	skewness of the average acceleration series
kurAA	kurtosis of the average acceleration series
q1AA	first quartile of the average acceleration series
medianAA	median of the average acceleration series
q3AA	third quartile of the average acceleration series
iqrAA	interquartile range of the average acceleration series
rangeAA	range of the average acceleration series
acfAA	autocorrelation (lag = 1) of the average acceleration series
zcrAA	zero-crossing rate of the average acceleration series
dfaAA	scaling exponent of the detrended fluctuation analysis of the average acceleration series
cvAA	coefficient of variation of the average acceleration series
tkeoAA	teager-kaiser energy operator of the average acceleration series
F0AA	frequency at which the maximum peak of the Lomb-Scargle periodogram occured for the average acceleration series
P0AA	maximum power in the inspected frequency interval of the Lomb-Scargle periodogram for the average acceleration series
meanAJ	mean of the average jerk series
sdAJ	standard deviation of the average jerk series
modeAJ	mode of the average jerk series
skewAJ	skewness of the average jerk series
kurAJ	kurtosis of the average jerk series
q1AJ	first quartile of the average jerk series
medianAJ	median of the average jerk series
q3AJ	third quartile of the average jerk series
iqrAJ	interquartile range of the average jerk series
rangeAJ	range of the average jerk series
acfAJ	autocorrelation (lag = 1) of the average jerk series
zcrAJ	zero-crossing rate of the average jerk series
dfaAJ	scaling exponent of the detrended fluctuation analysis of the average jerk series

cvAJ	coefficient of variation of the average jerk series
tkeoAJ	teager-kaiser energy operator of the average jerk series
F0AJ	frequency at which the maximum peak of the Lomb-Scargle periodogram occured for the average jerk series
P0AJ	maximum power in the inspected frequency interval of the Lomb-Scargle periodogram for the average jerk series
corXY	correlation betwen the X and Y acceleration
corXZ	correlation betwen the X and Z acceleration
corYZ	correlation betwen the Y and Z acceleration