Data Dictionary

Type: column separated, blank space separator

Columns

subjectId   integer
     subject identifier
        1 to 30

activityId   integer
     activity identifier
        1 to 6
                1 .WALKING
                2 .WALKING_UPSTAIRS
                3 .WALKING_DOWNSTAIRS
                4 .SITTING
                5 .STANDING
                6 .LAYING

activityName   text
     activity name
        WALKING
        WALKING_UPSTAIRS
        WALKING_DOWNSTAIRS
        SITTING
        STANDING
        LAYING

Measurement columns
- All measures are normalized and bounded within [-1,1]

Column definitions:

- TimeSignal : accelerometer and gyroscope signal
- FrequencySignal : Fast Fourier Transform applied to the signal
- Body
  - Body signal (total signal minus gravitation)
- Gravity
  - Gravitation signal
- Acceleration:
  - Acceleration
  - Units : m/s2
- AngularVelocity :
  - Angular Velocity
  - Units : radian/s
- Jerk
  - Derived of acceleration or angular velocity
- Mag:
  - Magnitude of the X,Y,Z vector
- X,Y,Z
  - Represents the 3 dimensional space coordinate
- meanFrequency
  - Weighted average of the frequency components to obtain a mean frequency

TimeSignal_BodyAcceleration_mean_X
TimeSignal_BodyAcceleration_mean_Y
TimeSignal_BodyAcceleration_mean_Z
TimeSignal_BodyAcceleration_standardDeviation_X
TimeSignal_BodyAcceleration_standardDeviation_Y
TimeSignal_BodyAcceleration_standardDeviation_Z
TimeSignal_GravityAcceleration_mean_X
TimeSignal_GravityAcceleration_mean_Y
TimeSignal_GravityAcceleration_mean_Z
TimeSignal_GravityAcceleration_standardDeviation_X
TimeSignal_GravityAcceleration_standardDeviation_Y
TimeSignal_GravityAcceleration_standardDeviation_Z
TimeSignal_BodyAccelerationJerk_mean_X
TimeSignal_BodyAccelerationJerk_mean_Y
TimeSignal_BodyAccelerationJerk_mean_Z
TimeSignal_BodyAccelerationJerk_standardDeviation_X
TimeSignal_BodyAccelerationJerk_standardDeviation_Y
TimeSignal_BodyAccelerationJerk_standardDeviation_Z
TimeSignal_BodyAngularVelocity_mean_X
TimeSignal_BodyAngularVelocity_mean_Y
TimeSignal_BodyAngularVelocity_mean_Z
TimeSignal_BodyAngularVelocity_standardDeviation_X
TimeSignal_BodyAngularVelocity_standardDeviation_Y
TimeSignal_BodyAngularVelocity_standardDeviation_Z
TimeSignal_BodyAngularVelocityJerk_mean_X
TimeSignal_BodyAngularVelocityJerk_mean_Y
TimeSignal_BodyAngularVelocityJerk_mean_Z
TimeSignal_BodyAngularVelocityJerk_standardDeviation_X
TimeSignal_BodyAngularVelocityJerk_standardDeviation_Y
TimeSignal_BodyAngularVelocityJerk_standardDeviation_Z
TimeSignal_BodyAccelerationMagnitude_mean
TimeSignal_BodyAccelerationMagnitude_standardDeviation
TimeSignal_GravityAccelerationMagnitude_mean
TimeSignal_GravityAccelerationMagnitude_standardDeviation
TimeSignal_BodyAccelerationJerkMagnitude_mean
TimeSignal_BodyAccelerationJerkMagnitude_standardDeviation
TimeSignal_BodyAngularVelocityMagnitude_mean
TimeSignal_BodyAngularVelocityMagnitude_standardDeviation
TimeSignal_BodyAngularVelocityJerkMagnitude_mean
TimeSignal_BodyAngularVelocityJerkMagnitude_standardDeviation
FrequencySignal_BodyAcceleration_mean_X
FrequencySignal_BodyAcceleration_mean_Y
FrequencySignal_BodyAcceleration_mean_Z
FrequencySignal_BodyAcceleration_standardDeviation_X
FrequencySignal_BodyAcceleration_standardDeviation_Y
FrequencySignal_BodyAcceleration_standardDeviation_Z
FrequencySignal_BodyAcceleration_meanFrequency_X
FrequencySignal_BodyAcceleration_meanFrequency_Y
FrequencySignal_BodyAcceleration_meanFrequency_Z
FrequencySignal_BodyAccelerationJerk_mean_X
FrequencySignal_BodyAccelerationJerk_mean_Y
FrequencySignal_BodyAccelerationJerk_mean_Z
FrequencySignal_BodyAccelerationJerk_standardDeviation_X
FrequencySignal_BodyAccelerationJerk_standardDeviation_Y
FrequencySignal_BodyAccelerationJerk_standardDeviation_Z

FrequencySignal_BodyAccelerationJerk_meanFrequency_X
FrequencySignal_BodyAccelerationJerk_meanFrequency_Y
FrequencySignal_BodyAccelerationJerk_meanFrequency_Z
FrequencySignal_BodyAngularVelocity_mean_X
FrequencySignal_BodyAngularVelocity_mean_Y
FrequencySignal_BodyAngularVelocity_mean_Z
FrequencySignal_BodyAngularVelocity_standardDeviation_X
FrequencySignal_BodyAngularVelocity_standardDeviation_Y
FrequencySignal_BodyAngularVelocity_standardDeviation_Z
FrequencySignal_BodyAngularVelocity_meanFrequency_X
FrequencySignal_BodyAngularVelocity_meanFrequency_Y
FrequencySignal_BodyAngularVelocity_meanFrequency_Z
FrequencySignal_BodyAccelerationMagnitude_mean
FrequencySignal_BodyAccelerationMagnitude_standardDeviation
FrequencySignal_BodyAccelerationMagnitude_meanFrequency
FrequencySignal_BodyBodyAccelerationJerkMagnitude_mean
FrequencySignal_BodyBodyAccelerationJerkMagnitude_standardDeviation
FrequencySignal_BodyBodyAccelerationJerkMagnitude_meanFrequency
FrequencySignal_BodyBodyAngularVelocityMagnitude_mean
FrequencySignal_BodyBodyAngularVelocityMagnitude_standardDeviation
FrequencySignal_BodyBodyAngularVelocityMagnitude_meanFrequency
FrequencySignal_BodyBodyAngularVelocityJerkMagnitude_mean
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