

Codebook

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1 Introduction

This codebook provides an explanation for the output file tidydataset.txt. See readme to find out more information about the data. tidydataset.txt stores means of each activities and subjects.

2 Sorts

Activities and subjects are sorts of means in this text file. There are 6 kinds of activities, "Walking", "WalkingUp", "WalkingDown", "Sitting", "Standing", "Laying". There are 30 volunteers' ID, from 1 to 30. Thus we have 36 sorts of mean, which means 36 rows.

3 Variables

There are 66 variables.

"TimeBodyAccMean-X"
"TimeBodyAccMean-Y"
"TimeBodyAccMean-Z"
"TimeBodyAccStdDev-X"
"TimeBodyAccStdDev-Y"
"TimeBodyAccStdDev-Z"
"TimeGravityAccMean-X"
"TimeGravityAccMean-Y"
"TimeGravityAccMean-Z"
"TimeGravityAccStdDev-X"
"TimeGravityAccStdDev-Y"
"TimeGravityAccStdDev-Z"
"TimeBodyAccJerkMean-X"
"TimeBodyAccJerkMean-Y"
"TimeBodyAccJerkMean-Z"
"TimeBodyAccJerkStdDev-X"
"TimeBodyAccJerkStdDev-Y"
"TimeBodyAccJerkStdDev-Z"
"TimeBodyGyroMean-X"
"TimeBodyGyroMean-Y"
"TimeBodyGyroMean-Z"
"TimeBodyGyroStdDev-X"
"TimeBodyGyroStdDev-Y"
"TimeBodyGyroStdDev-Z"
"TimeBodyGyroJerkMean-X"

"TimeBodyGyroJerkMean-Y"
 "TimeBodyGyroJerkMean-Z"
 "TimeBodyGyroJerkStdDev-X"
 "TimeBodyGyroJerkStdDev-Y"
 "TimeBodyGyroJerkStdDev-Z"
 "TimeBodyAccMagnitudeMean"
 "TimeBodyAccMagnitudeStdDev"
 "TimeGravityAccMagnitudeMean"
 "TimeGravityAccMagnitudeStdDev"
 "TimeBodyAccJerkMagnitudeMean"
 "TimeBodyAccJerkMagnitudeStdDev"
 "TimeBodyGyroMagnitudeMean"
 "TimeBodyGyroMagnitudeStdDev"
 "TimeBodyGyroJerkMagnitudeMean"
 "TimeBodyGyroJerkMagnitudeStdDev"
 "FreqBodyAccMean-X"
 "FreqBodyAccMean-Y"
 "FreqBodyAccMean-Z"
 "FreqBodyAccStdDev-X"
 "FreqBodyAccStdDev-Y"
 "FreqBodyAccStdDev-Z"
 "FreqBodyAccJerkMean-X"
 "FreqBodyAccJerkMean-Y"
 "FreqBodyAccJerkMean-Z"
 "FreqBodyAccJerkStdDev-X"
 "FreqBodyAccJerkStdDev-Y"
 "FreqBodyAccJerkStdDev-Z"
 "FreqBodyGyroMean-X"
 "FreqBodyGyroMean-Y"
 "FreqBodyGyroMean-Z"
 "FreqBodyGyroStdDev-X"
 "FreqBodyGyroStdDev-Y"
 "FreqBodyGyroStdDev-Z"
 "FreqBodyAccMagnitudeMean"
 "FreqBodyAccMagnitudeStdDev"
 "FreqBodyBodyAccJerkMagnitudeMean"
 "FreqBodyBodyAccJerkMagnitudeStdDev"
 "FreqBodyBodyGyroMagnitudeMean"
 "FreqBodyBodyGyroMagnitudeStdDev"
 "FreqBodyBodyGyroJerkMagnitudeMean"
 "FreqBodyBodyGyroJerkMagnitudeStdDev"

Where "Freq" stands for frequency, "Acc" stands for acceleration, "StdDev" stands for standard deviation, "Jerk" stands for Jerk signal.

4 Group of Volunteers

Test group's IDs are {2, 4, 9, 10, 12, 13, 18, 20, 24}. Rest are in train group.