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 Identifiers

There are two type of identifiers, Activities and Subjects . There are 6 kinds of activities, "Walking", "WalkingUp", "WalkingDown", "Sitting", "Standing", "Laying". There are 30 volunteers' ID, from 1 to 30. Thus we have 30 Subjects.

3 Variables

There are 66 variables.

"TimeBodyAccMean-X"

"TimeBodyAccMean-Y"

"TimeBodyAccMean-Z"

"TimeBodyAccStdDev-X"

"TimeBodyAccStdDev-Y"

"TimeBodyAccStdDev-Z"

"Time Gravity Acc Mean-X"

"Time Gravity Acc Mean-Y"

"TimeGravityAccMean-Z"

"TimeGravityAccStdDev-X"

"TimeGravityAccStdDev-Y"

"Time Gravity Acc Std Dev-Z"

 ${\it ``TimeBodyAccJerkMean-X''}$

"TimeBodyAccJerkMean-Y"

"TimeBodyAccJerkMean-Z"

"TimeBodyAccJerkStdDev-X"

"TimeBodyAccJerkStdDev-Y"

"TimeBodyAccJerkStdDev-Z"

"TimeBodyGyroMean-X"

"TimeBodyGyroMean-Y"

"TimeBodyGyroMean-Z"

"TimeBodyGyroStdDev-X"

 ${\it ``TimeBodyGyroStdDev-Y''}$

 ${\it ``TimeBodyGyroStdDev-Z''}$

"TimeBodyGyroJerkMean-X"

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"TimeBodyGyroJerkMean-Y"
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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.

 $^{{\}it ``TimeBodyGyroJerkMean-Z''}$

 $^{{\}it ``TimeBodyGyroJerkStdDev-X''}$

[&]quot;TimeBodyGyroJerkStdDev-Y"

[&]quot;TimeBodyGyroJerkStdDev-Z"

[&]quot;Time Body Acc Magnitude Mean"

[&]quot;Time Body Acc Magnitude Std Dev"

[&]quot;Time Gravity Acc Magnitude Mean"

[&]quot;Time Gravity Acc Magnitude Std Dev"

[&]quot;Time Body Acc Jerk Magnitude Mean"

[&]quot;Time Body Acc Jerk Magnitude Std Dev"

[&]quot;Time Body Gyro Magnitude Mean"

[&]quot;Time Body Gyro Magnitude Std Dev"

[&]quot;Time Body Gyro Jerk Magnitude Mean"

[&]quot;Time Body Gyro Jerk Magnitude Std Dev"

[&]quot;FreqBodyAccMean-X"

[&]quot;FreqBodyAccMean-Y"

[&]quot;FreqBodyAccMean-Z"

 $^{{\}it ``FreqBodyAccStdDev-X''}$

 $^{{\}it ``FreqBodyAccStdDev-Y''}$

[&]quot;FreqBodyAccStdDev-Z"

 $^{{\}it ``FreqBodyAccJerkMean-X''}$

 $^{{\}it ``FreqBodyAccJerkMean-Y''}$

[&]quot;FreqBodyAccJerkMean-Z"

 $^{{\}it ``FreqBodyAccJerkStdDev-X''}$

[&]quot;FreqBodyAccJerkStdDev-Y"

[&]quot;FreqBodyAccJerkStdDev-Z"

[&]quot;FreqBodyGyroMean-X"

[&]quot;FreqBodyGyroMean-Y"

[&]quot;FreqBodyGyroMean-Z"

[&]quot;FreqBodyGyroStdDev-X"

[&]quot;FreqBodyGyroStdDev-Y"

[&]quot;FreqBodyGyroStdDev-Z"

[&]quot;FreqBodyAccMagnitudeMean"

[&]quot;FreqBodyAccMagnitudeStdDev"

[&]quot;FreqBodyBodyAccJerkMagnitudeMean"

[&]quot;FreqBodyBodyAccJerkMagnitudeStdDev"

[&]quot;FreqBodyBodyGyroMagnitudeMean"

[&]quot;FreqBodyBodyGyroMagnitudeStdDev"

[&]quot;FreqBodyBodyGyroJerkMagnitudeMean"

[&]quot;FreqBodyBodyGyroJerkMagnitudeStdDev"