CodeBook

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Data.txt CodeBook

Column 1: subject A series of number of subjects from 1 to 30. Type: Integer

Column 2:
activity The six activities that the subjects performed.Listed as: WALKING, WALKING_UPSTAIRS, WALKING_DOWNSTAIRS, SITTING, STANDING, LAYING Type: character

Column 3 to 68: variables These are the variables that obtain by the experiment. The breakdown of the notation of the variables is listed as follow. t: denote time domain signals (prefix 't' to denote time) were captured at a constant rate of 50 Hz. f: denote a Fast Fourier Transform (FFT) was applied to some of these signals(the 'f' to indicate frequency domain signals). Body: denote a body acceleration Gravity: denote a gravity acceleration Acc: denote a signals obtained by accelerometer. Gyro: denote a signals obtained by Gyroscope. Jerk: denote a Jerk signals derived in time by body linear acceleration and angular velocity. Mag: denote the magnitude of the three dimensional signals calculated by Euclidean norm. mean: denote the mean value of the signal. std: denote the standard deviation of the signal. X/Y/Z: denote the 3-axis.

for example "tBodyAccJerk mean X" is the mean of a time domain body linear acceleration and angular velocity of X axis.