CODE BOOK

This document includes the definition of each of the variables that can be found in the *tidy_data.txt* file.

This dataset contains the statistical mean of each variable extracted from the Human Activity Recognition Using Smartphones Dataset (HARUSD), for each subject and each activity.

The HARUSD contains information of six activities wearing a smartphone (Samsung Galaxy S II): walking upstairs, walking downstairs, sitting, standing and laying. Using its embedded accelerometer and gyroscope, they captured 3-axial linear acceleration and 3-axial angular velocity records at a constant rate of 50Hz.

The variables of the tidy data set are presented as follows:

SUBJECT

Factor variable with the identifier of the subject who perform the test. There are 30 factors.

01…30: Number that identifies the subject

ACTIVITY

Factor variable with the name of the activity. There are 6 activities.

LAYING: Indicates the activity of laying.

SITTING: Indicates the activity of sitting.

STANDING: Indicates the activity of standing.

WALKING: Indicates the activity of walking.

WALKING_DOWNSTAIRS: Indicates the activity of walking downstairs.

WALKING_UPSTAIRS: Indicates the activity of walking upstairs.

MEASURE

Factor variable indicating the variable recorded. There are 86 variables.

tBodyAcc-mean()-X … tBodyGyro-std()-Z: Variable name that identifies the variable. The firs t stands for time, followed by the abbreviated measure name. Then, the statistical operation (mean or sd) and finally the axis (X, Y or Z).

MEAN

Numeric variable indicating the mean of each variable for each subject and activity. The limits for the variables where -1 and 1.

-1 … 1 Value of the mean for each measure.