

Assignment 2

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INF 385T – Personal Informatics

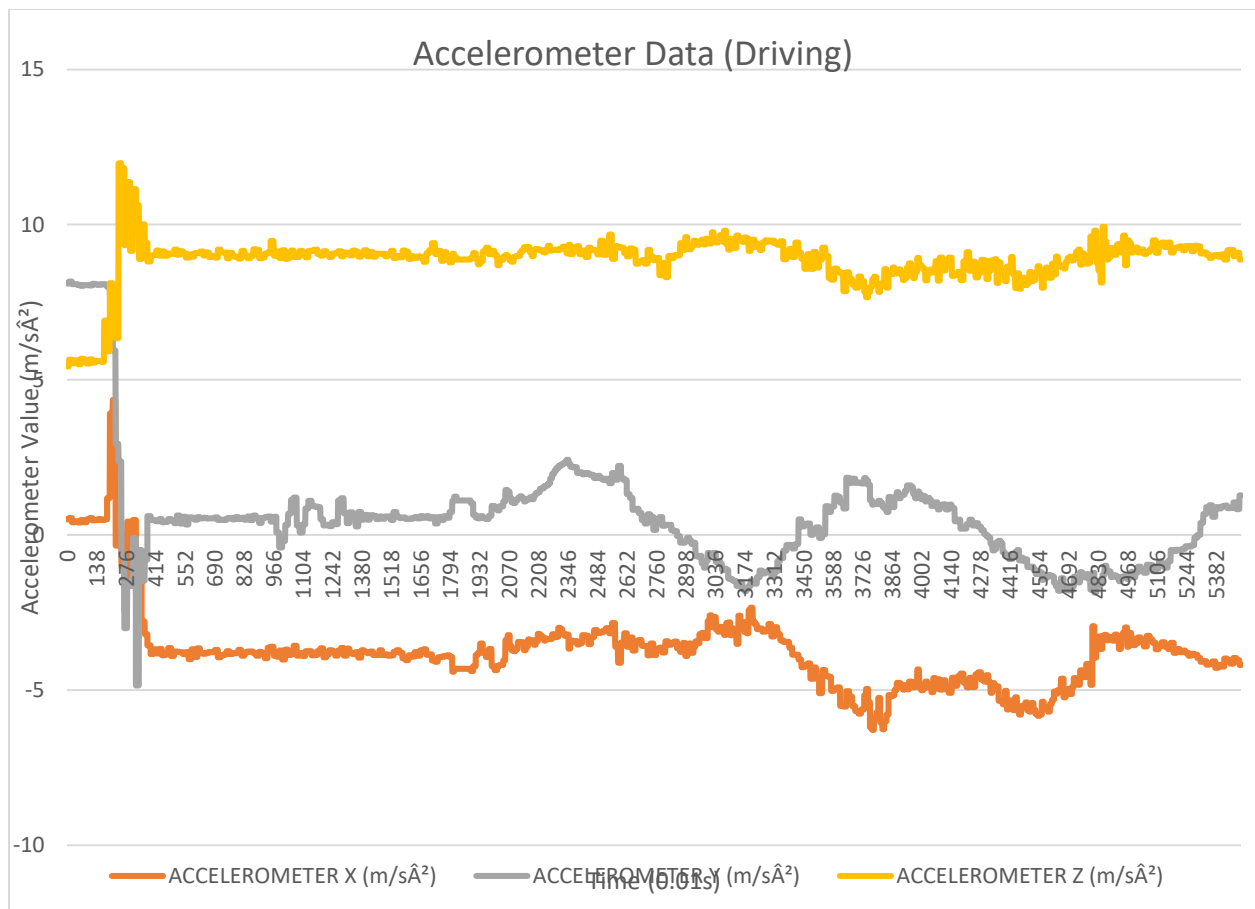
1. Setup

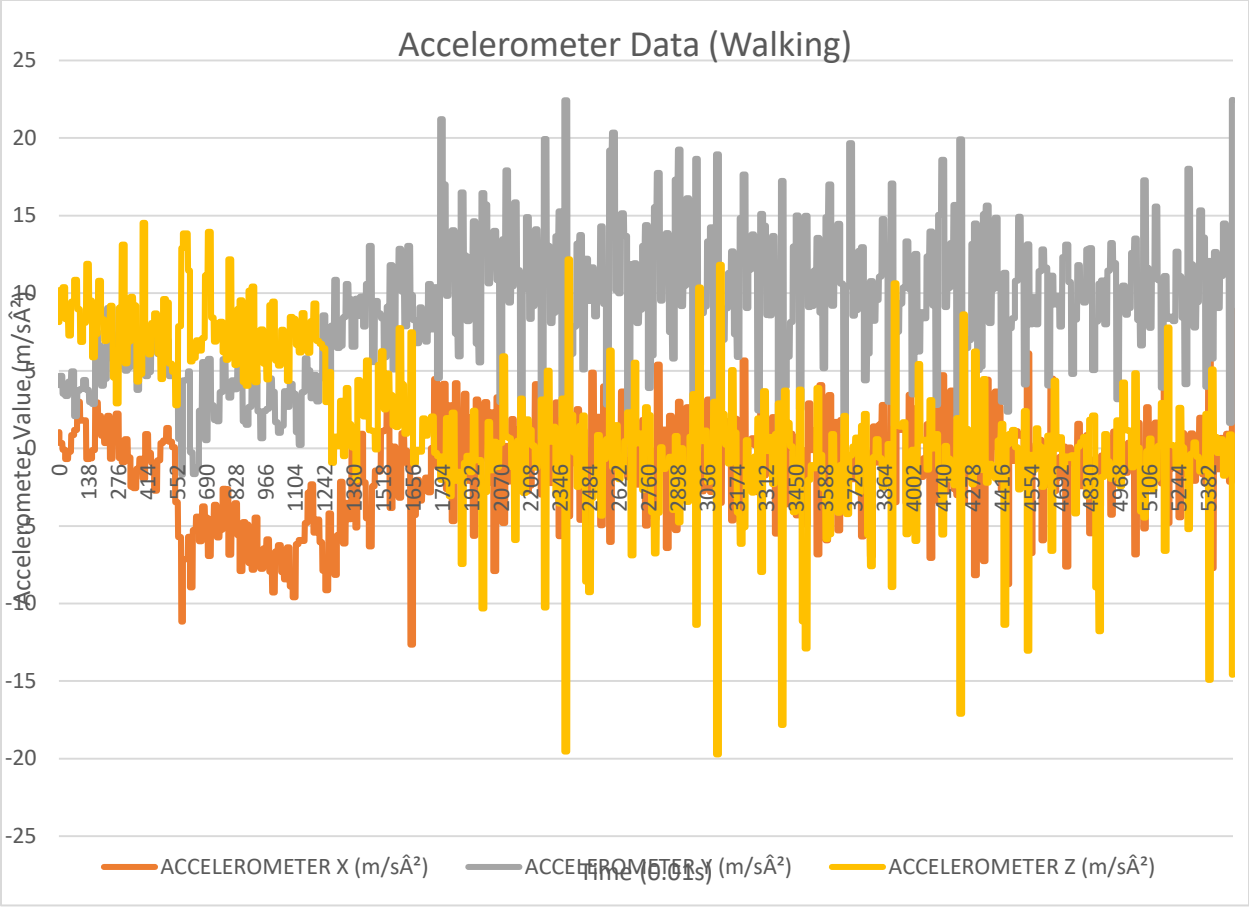
I downloaded and installed AndroSensor for this assignment.

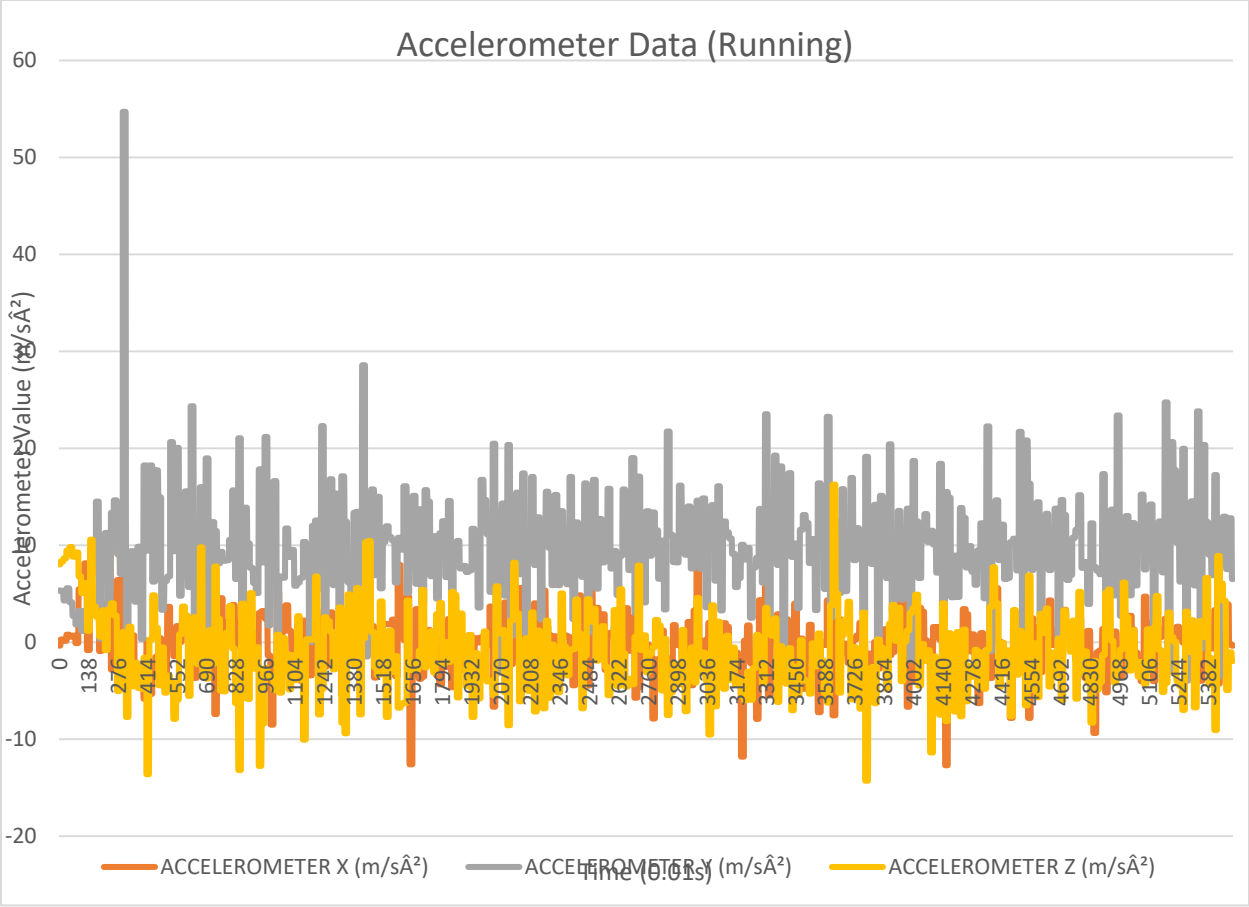
2. Data Collection

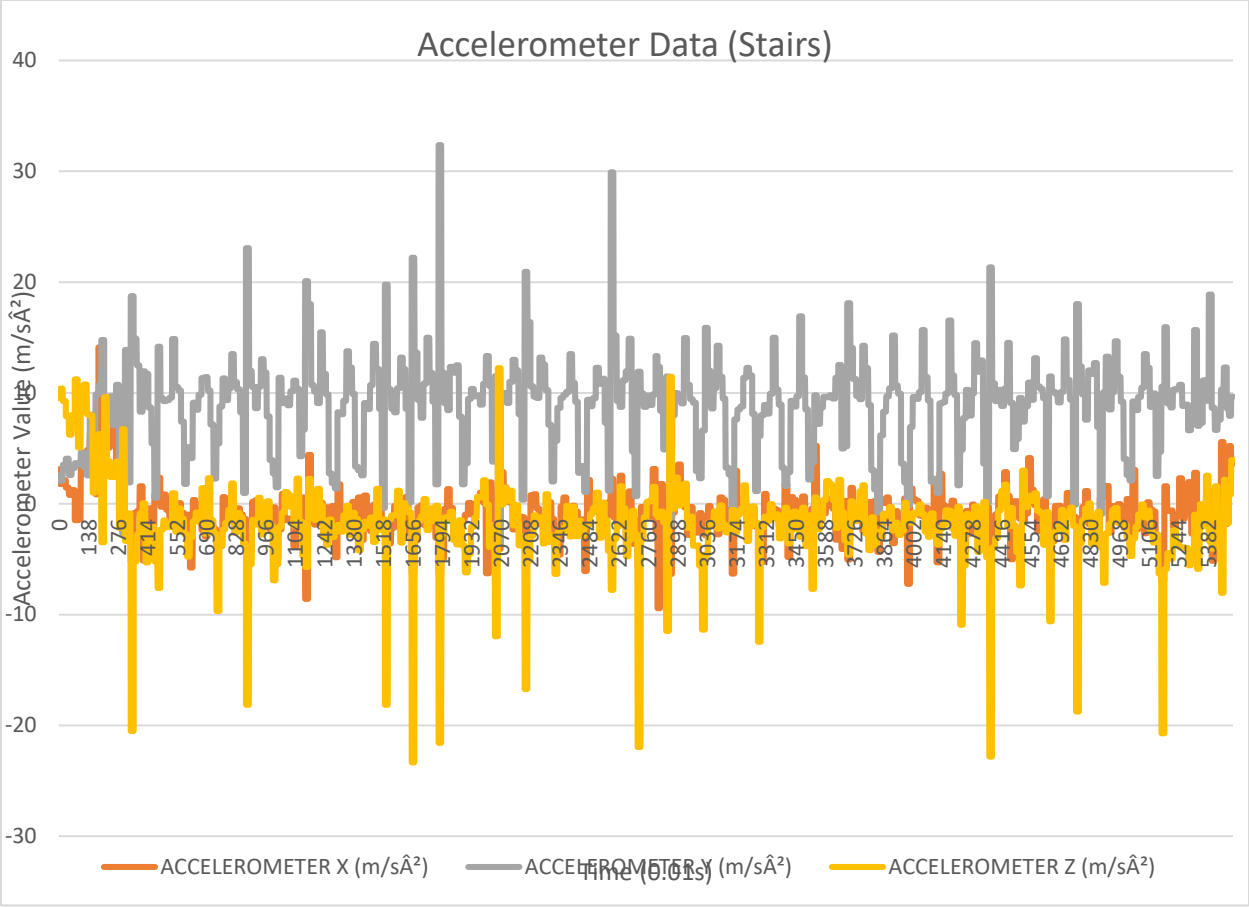
The collected data is attached with this report.

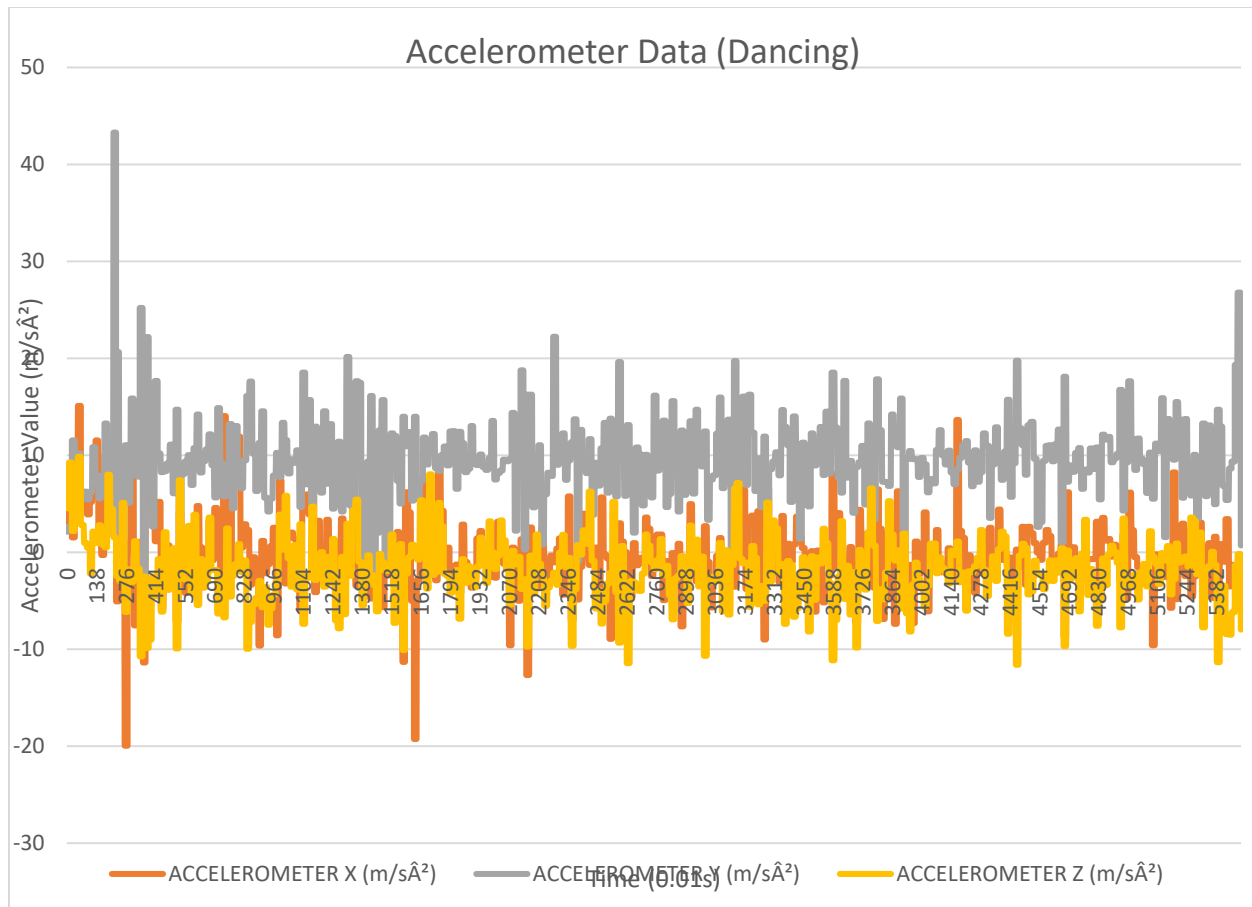
3. Visualization











4. Discriminating Activities

The accelerometer data for the driving activity was distinctly different from that of the other activities. The values followed a smooth, stable curve with slight variations (probably due to turns and stops). The variance was also fairly low. For the walking activity, the variance became much higher, and the range of accelerometer values was from -20 to 20. The visualization for running was similar to that of walking except that the variance and range of values were larger and more compressed (higher frequency). For the stairs activity, the frequency of the variances appeared similar to that of the walking activity for the X and Z values, but the Y accelerometer values are less jagged and less frequent. Finally, for the dancing activity, everything just looked more random. There are hints of all three movement activities (walking, running, stairs) but it is not consistent.