

# Draw predictions

August 30, 2016

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In [1]: %matplotlib inline
import matplotlib.pyplot as plt
import glob
import numpy as np
import pandas as pd

In [2]: prefix = ['predictions/WiFiGPS_lim8_smoothed*', 'predictions/WiFi_Floor_GPS_lim8_smoothed_opt_c
            'predictions/Final*']
file_names = []
for sub in prefix:
    file_names.append(glob.glob(sub))
print(file_names)

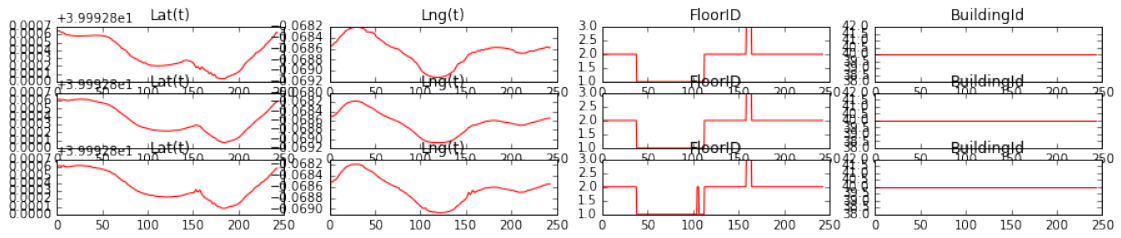
[['predictions\\WiFiGPS_lim8_smoothed.1.csv', 'predictions\\WiFiGPS_lim8_smoothed.2.csv', 'predictions\\W

In [3]: files = []
for sub in file_names:
    files.append([])
    for route_i in sub:
        files[-1].append(np.loadtxt(route_i, delimiter=","))

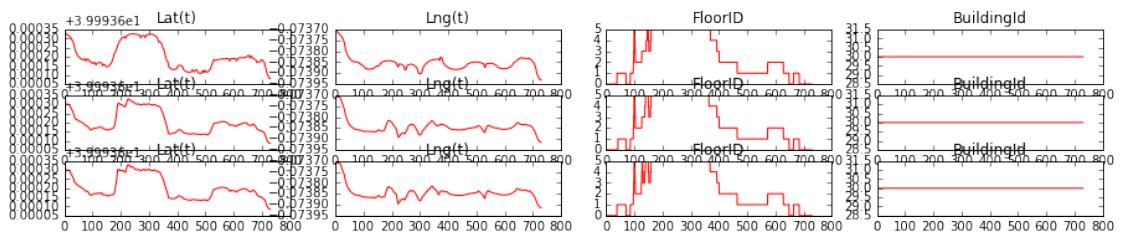
In [4]: # print an image of the predictions
def show_predictions(predictions):
    n_pred = len(predictions)
    for track_i in range(9):
        print('Track %d' % track_i)
        for sub_i in range(n_pred):
            cur_pred = predictions[sub_i][track_i]
            # Plot 2D predictions
            plt.figure(1, figsize=(15, 15))
            plt.subplot(4 * (n_pred+1) , 4, (sub_i*4) + 1)
            plt.plot(cur_pred[:, 0], cur_pred[:, 1], 'r')
            plt.title('Lat(t)')
            plt.subplot(4 * (n_pred+1) , 4, (sub_i*4) + 2)
            plt.plot(cur_pred[:, 0], cur_pred[:, 2], 'r')
            plt.title('Lng(t)')
            plt.subplot(4 * (n_pred+1) , 4, (sub_i*4) + 3)
            plt.plot(cur_pred[:, 0], cur_pred[:, 3], 'r')
            plt.title('FloorID')
            plt.subplot(4 * (n_pred+1) , 4, (sub_i*4) + 4)
            plt.plot(cur_pred[:, 0], cur_pred[:, 4], 'r')
            plt.title('BuildingId')
        plt.show()

In [5]: show_predictions(files)
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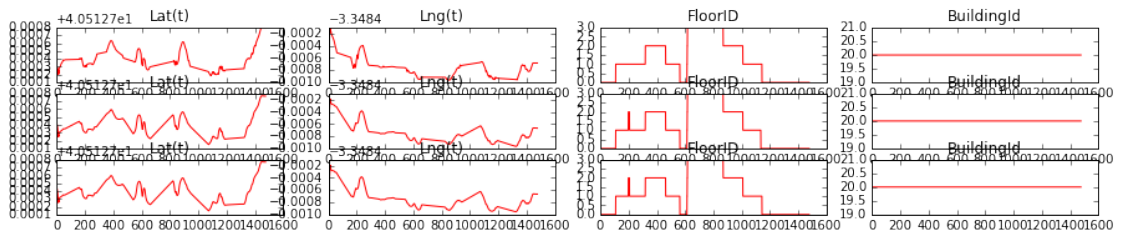
Track 0



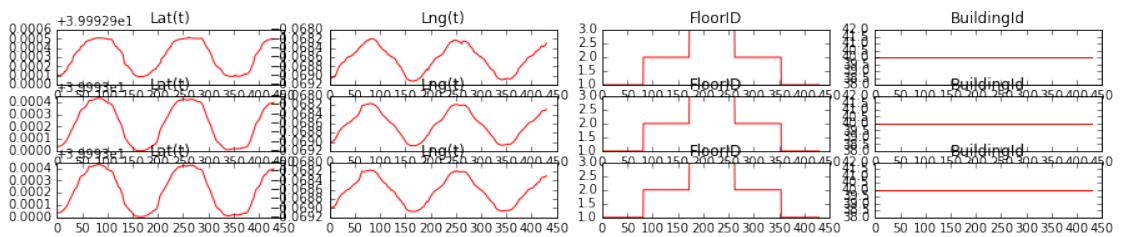
Track 1



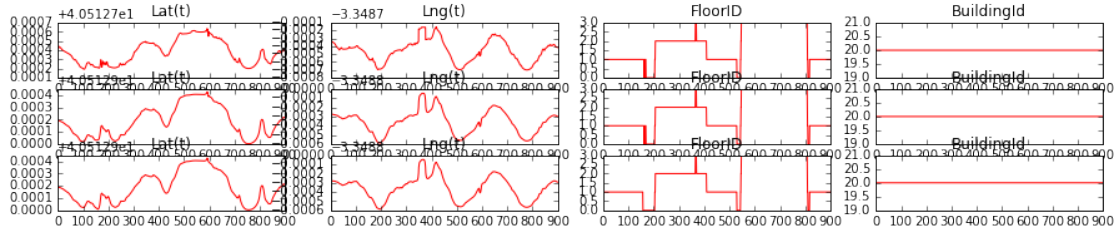
Track 2



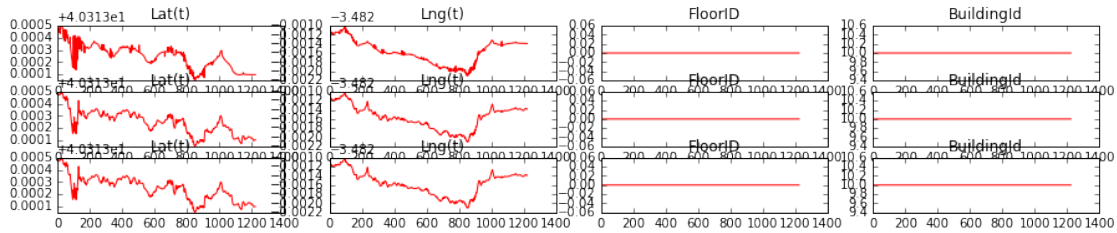
Track 3



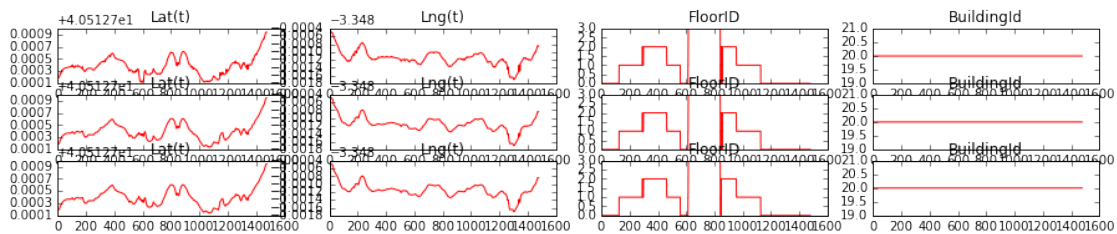
Track 4



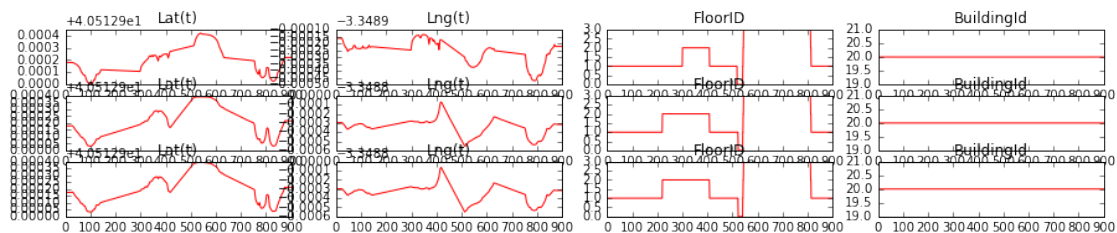
Track 5



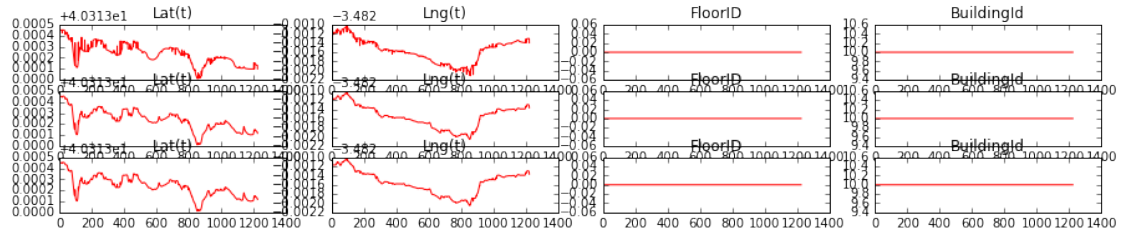
Track 6



Track 7



Track 8



In [ ]: