Bluetooth Tracking Report

OverTheHeadTest.csv February 20, 2025

1 1D b1d_distance

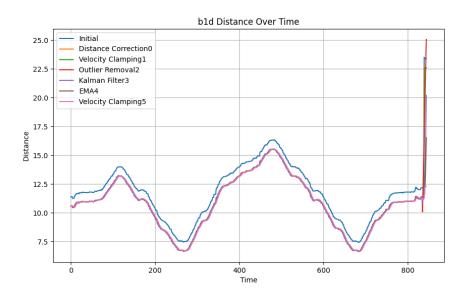


Figure 1: b1d Distance Over Time

2 1D b2d_distance

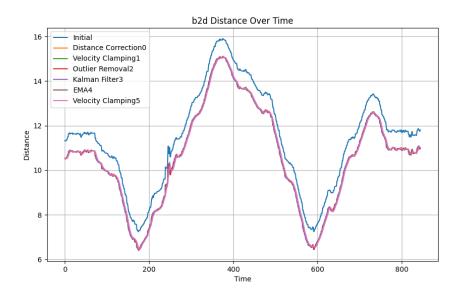


Figure 2: b2d Distance Over Time

3 1D b3d_distance

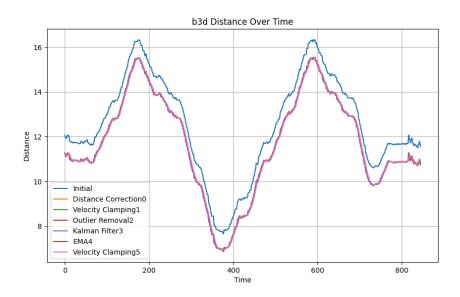


Figure 3: b3d Distance Over Time

4 1D b4d_distance

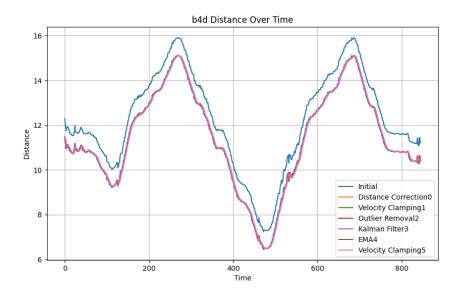


Figure 4: b4d Distance Over Time

5 Initial - Ground Truth Comp.

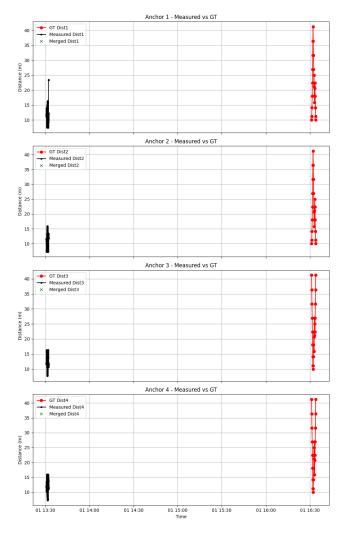


Figure 5: Initial Measured vs GT Distance

6 Distance Correction0 - Ground Truth Comp.

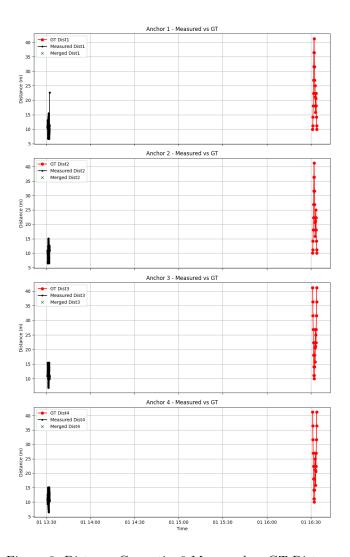


Figure 6: Distance Correction0 Measured vs GT Distance

7 Velocity Clamping1 - Ground Truth Comp.

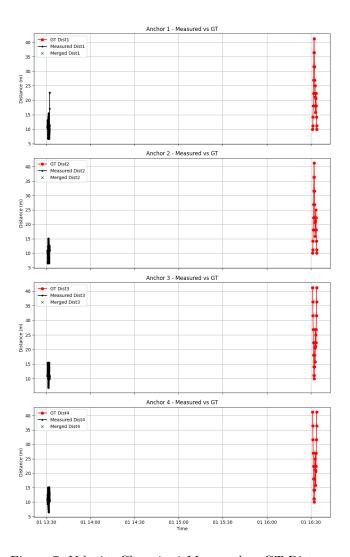


Figure 7: Velocity Clamping1 Measured vs GT Distance

8 Outlier Removal2 - Ground Truth Comp.

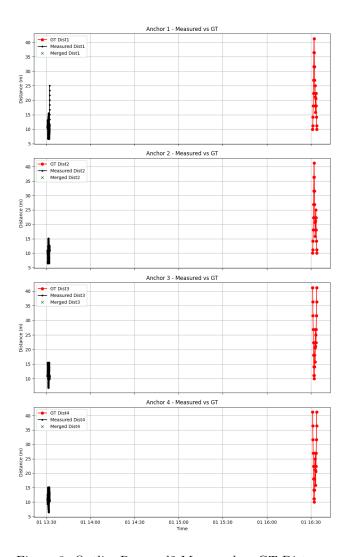


Figure 8: Outlier Removal2 Measured vs GT Distance

9 Kalman Filter3 - Ground Truth Comp.

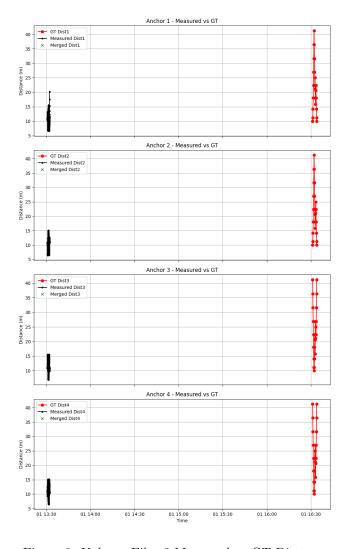


Figure 9: Kalman Filter3 Measured vs GT Distance

10 EMA4 - Ground Truth Comp.

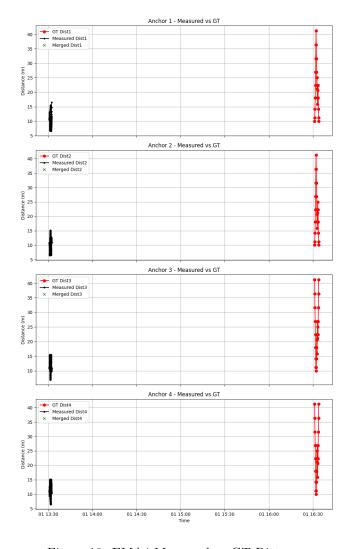


Figure 10: EMA4 Measured vs GT Distance

11 Velocity Clamping5 - Ground Truth Comp.

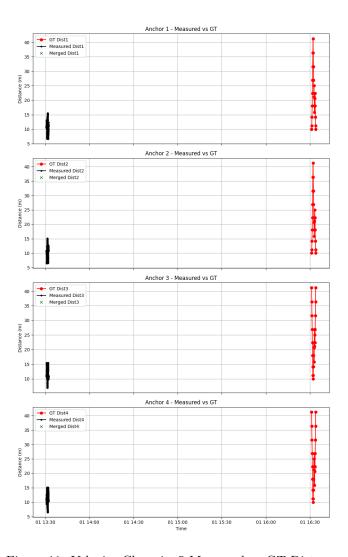


Figure 11: Velocity Clamping5 Measured vs GT Distance

12 Ground Truth

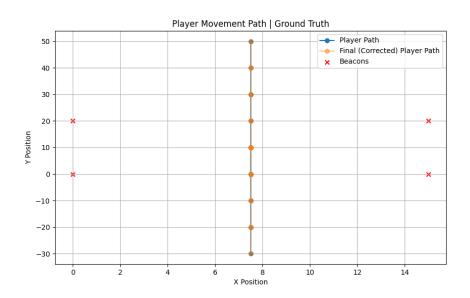


Figure 12: Ground Truth Player Movement Path

13 Initial

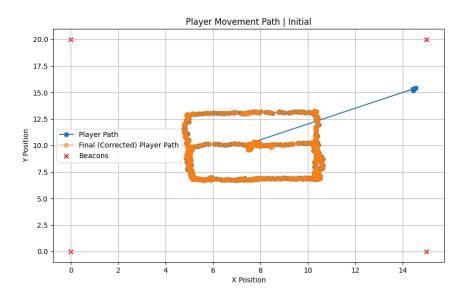


Figure 13: Player Movement Path

14 Distance Correction0

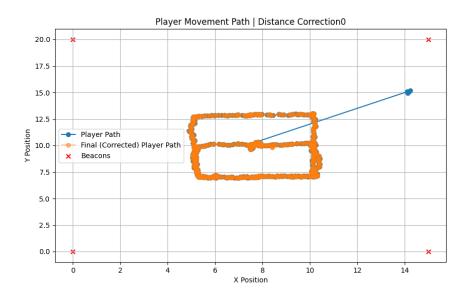


Figure 14: Player Movement Path

15 Velocity Clamping1

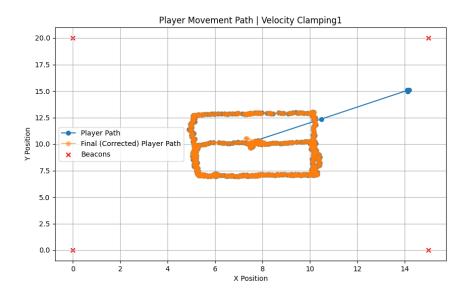


Figure 15: Player Movement Path

16 Outlier Removal2

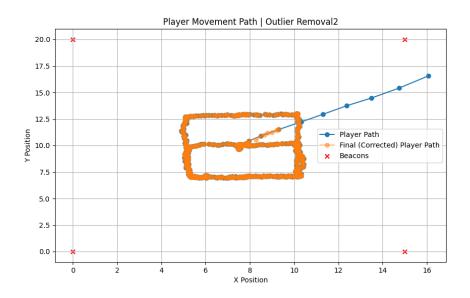


Figure 16: Player Movement Path

17 Kalman Filter3

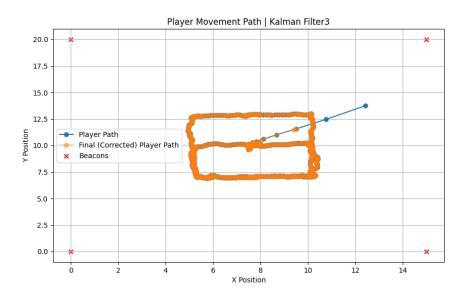


Figure 17: Player Movement Path

18 EMA4

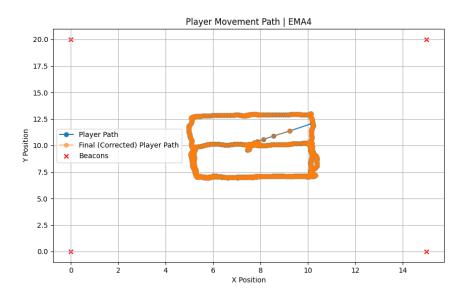


Figure 18: Player Movement Path

19 Velocity Clamping5

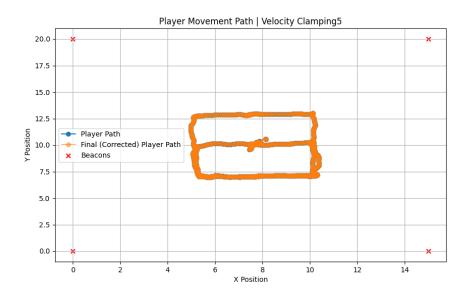


Figure 19: Player Movement Path