

Ballistic Object Trajectory and LP Estimation from Radar Measurements using LSTM Networks

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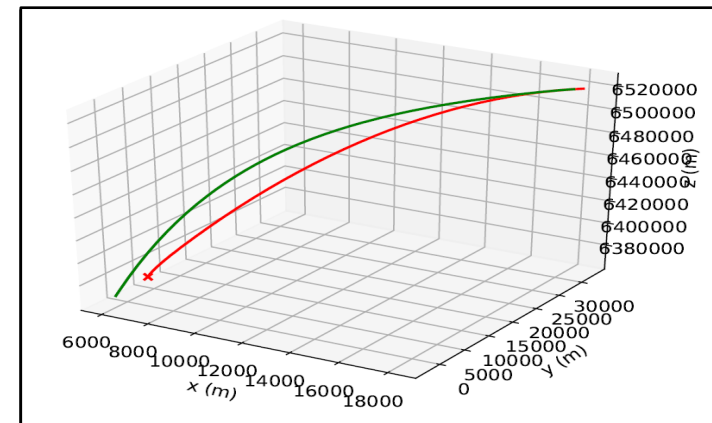
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• Problems

- The dynamics of missile changes over the flight phases(boost, ballistic, reentry phase)
- The flight phase of the missile would be difficult to differentiate using only radar observations.

• The main contribution:

Suggested method estimate the trajectories and launch points of ballistic missiles only using the radar measurement without any consideration of the dynamics and parameters of the missile flight system.



Trajectory and Launch Point estimation result using LSTM