

# Unmanned Aerial Vehicle's State Estimation with Multiple Unmanned Ground Vehicles Cooperative Observation Based on Set-Membership Filter

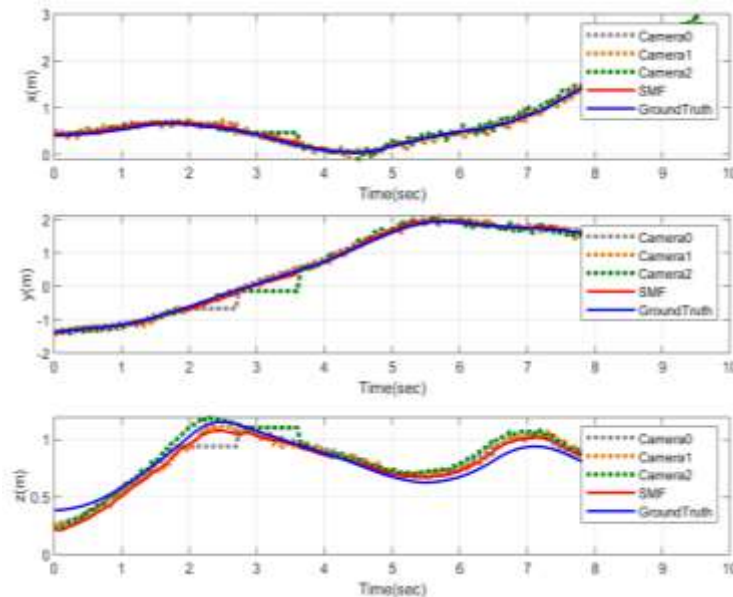
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- There are usually problems with low observation accuracy or robustness and prior assumptions about noises.
- Set-Membership Filter (SMF) method is applied to the cooperative observation system.
- The application of SMF algorithm in single and multiple UGVs cooperative observation system with obstacles are researched respectively.
- Experiments are conducted to verify accuracy and effectiveness of SMF method.



Estimation Results of Multiple UGV Cooperative Observation