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Summary

• We have briefly reviewed the Bayesian approach to the distributed optimal estimation problem.

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- By this approach, we have derived a new distributed UKF algorithm for a nonlinear system.
- We have also verified the effectiveness of our proposed algorithm by the numerical simulation of the tracking filter with 10 radar sensors.

Future Work

- Extension of the present algorithm to a more general topology of the sensor network.
- Reduction of the computational complexity
- Application to multi-robot SLAM

 Thank you very much for your attention !

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