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State Estimation with a Destination Constraint Using
Pseudo-Measurements

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HIGHLIGHTS

- A new kind of equality constraint, the destination constraint, in which the prior information on the straight line is incomplete, is presented.
- Two forms of pseudo-measurements are constructed to model the destination constraint.
- Three filtering methods corresponding to these two pseudo-measurements are proposed. Numerical experiments demonstrate the effectiveness of the proposed filtering methods.
- A new metric is presented for complete performance evaluation of constrained state estimators.

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