

## Accepted Manuscript

Measurement Variance Ignorant Target Motion Analysis

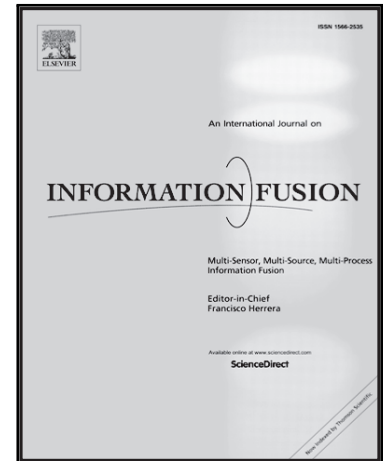
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**Highlights**

- Bayesian target motion analysis with unknown measurement noise variance
- Target state estimation unaffected by the ignorance of the measurement noise variance
- Two Rao-Blackwellised particle filters developed and compared

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