## **Accepted Manuscript**

Multi-target Bayes filter with the target detection

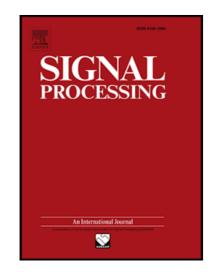
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#### ACCEPTED MANUSCRIPT

### Highlights

- An approach for the target detection is presented.
- Multi-target Bayes filter with the target detection is developeded.
- Simulation results demonstrate the performance of the developed filter.



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