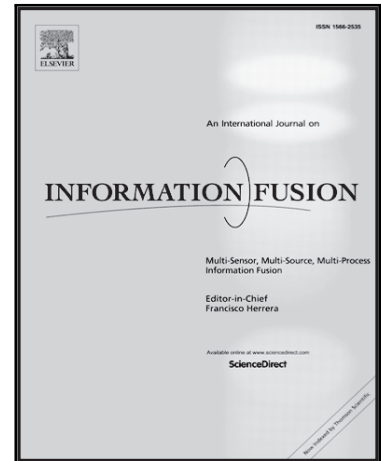


## Accepted Manuscript

Pedestrian Detection with Unsupervised Multispectral Feature Learning Using Deep Neural Networks

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**Highlights**

- We propose a unified framework which combines auto-annotation with TS-RPN.
- Pedestrian instances are iteratively labeling using multi-modal information.
- Temporal tracking and label fusion improve the quality of auto-annotated labels.
- TS-RPN efficiently fuses the semantic features on both visible and thermal images.

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