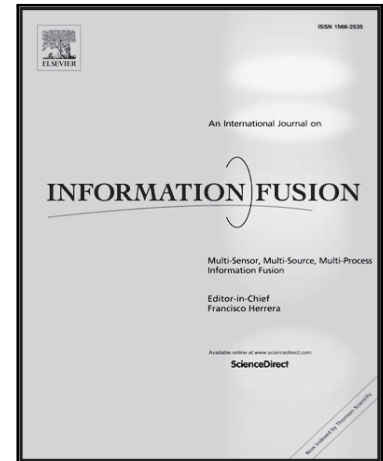


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Combining time-series and textual data for taxi demand prediction in event areas: a deep learning approach

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Highlights

- Two data fusion approaches for combining time-series with text data are proposed.
- Text data is modeled using word embeddings, convolutional layers and attention.
- Proposed models are applied to taxi demand prediction in event areas in New York.
- Text information about events is shown to significantly reduce prediction error.
- Proposed models are shown to substantially outperform traditional approaches.

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