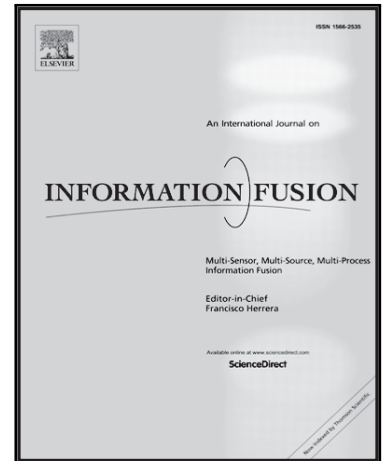


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Decomposition theorems and extension principles for hesitant fuzzy sets

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**Highlights**

- Every typical HFS is represented by a well-structured family of FSs.
- We define uniformly typical HFS and characteristic of a HFS.
- We define new families of cuts for HFSs.
- We prove the first decomposition theorem of HFSs in the literature.
- Two extension principles extend crisp maps to maps between HFSs.

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