Information Fusion Techniques Based on Aggregation Functions, Preaggregation Functions and Their Generalizations

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Description:

The search of new information fusion techniques under uncertainty is currently a hot topic in almost every research field. This interest has led to new analysis of the notion of aggregation function and the introduction of new concepts that go beyond usual aggregation functions, either by considering more general definitions, or by extending them to other frameworks different from that of the unit interval (e.g., intervals, lattices).

The special issue focuses on theoretical and applied aspects of data fusion for AI under uncertainty, including, but not limited to: aggregation functions, preaggregation functions, and fusion functions with other kinds of weaker monotonicity; fusion functions on many-valued contexts (e.g., interval and lattice valued); control of the uncertainty in interval-valued data

fusion; fuzzy measures and fuzzy integrals; (adaptative) neuro-fuzzy models and systems, deep (fuzzy) learning; fuzzy data stream; applications.