

Statistical analysis of fuzzy-valued data: mathematical fundamentals and some applications

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Abstract:

Fuzzy numbered-values can be often considered as a suitable model for many intrinsically imprecise human valuations. To analyze fuzzy numbered-valued data from a statistical perspective, a methodology is being developed along the last decades. The speech starts with arguments supporting the probabilistic model that has been considered for the random mechanism generating these data. Such arguments prove that the model has all the approvals within the probabilistic setting.

The main developed methods to statistically analyze fuzzy data are later summarized, and two real-life types of applications will finally illustrate the formal studies.