

PROBABILISTIC-POSSIBILISTIC APPROACH
TO SOME STATISTICAL PROBLEMS WITH
FUZZY EXPERIMENTAL OBSERVATIONS

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ABSTRACT:

In this paper we approach some statistical problems with vague experimental observations in terms of the concepts of fuzzy information, fuzzy information system and the Zadeh's probabilistic definition. It should be emphasized that the probabilistic context is not initially enough for describing these problems, but the incorporation of the concepts in the preceding approach allows us to construct a suitable model for them within the probabilistic framework.

Keywords: Experiment, Statistical Decision Problem, Point Estimation, Testing Hypotheses, Fuzzy Information, Fuzzy Information System, Probability of a Fuzzy Event.