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Goodman-Kruskal γ measure of dependence for fuzzy ordered categorical data. (English)

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Summary: The generalisation of the Goodman-Kruskal γ statistic that is used for the measurement of the strength of dependence (association) between two categorical variables with ordered categories is presented. The case when some data are not precise, and observations are described by possibility distributions over a set of categories of one variable is considered. For such data the fuzzy version of γ statistic has been defined.

MSC:

62H20 Measures of association (correlation, canonical correlation, etc.)

62H99 Multivariate analysis

Cited in 13 Documents

Keywords:

statistical dependence; fuzzy data; Goodman-Kruskal γ

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