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Fuzziness measures for fuzzy rectangles. (English) Zbl 0683.94019
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Summary: Taking inspiration from the axioms for Shannon entropy and U-uncertainty, we study fuzziness measures such that the fuzziness of a ‘genuine’ rectangular set can be computed from the fuzziness of its sides. The results found plead in favour of measures based on the max operation, rather than measures of the additive type.

MSC:

- [94D05](#) Fuzzy sets and logic (in connection with information, communication, or circuits theory) Cited in 1 Document
- [94A17](#) Measures of information, entropy

Keywords:

fuzzy sets; fuzzy Cartesian products; information measure; Shannon entropy; U-uncertainty; fuzziness measures

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