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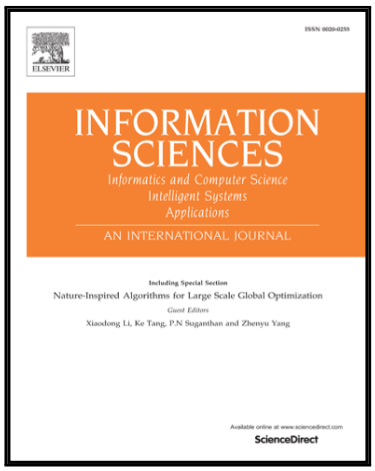

New measures of uncertainty for an interval-valued information system

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New measures of uncertainty for an interval-valued information system

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Abstract

An information system as a database that represents relationships between objects and attributes is an important mathematical model. An interval-valued information system is a generalized model of single-valued information systems. As important evaluation tools in the field of machine learning, measures of uncertainty can quantify the dependence and similarity between two targets. However, the existing measures of uncertainty for interval-valued information systems have not been thoroughly researched. This paper is devoted to the study of new measures of uncertainty for an interval-valued

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