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Temporal dynamics in information tables. (English) Zbl 1237.68212
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Summary: An information table can change over time in several different ways: objects enter/exit the system, new attributes are considered, etc. As a consequence rough set instruments also change. At first, we recall a classification of dynamic increase of information with respect to three different factors: objects, attributes, values. Then, the corresponding changes in rough sets are discussed. Results about approximations, positive region and generalized decision are given and algorithms to update reducts and rules provided.

MSC:

68T30 Knowledge representation

68T37 Reasoning under uncertainty in the context of artificial intelligence

Cited in **11** Documents

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