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A new fuzzy rough sets based on fuzzy coverings

Guangming Lang, Qingguo Li, Lankun Guo

(Submitted on 31 Mar 2012)

This paper provides further study on fuzzy coverings based rough sets. We first present the notions of the lower and upper approximation operators based on fuzzy coverings and derive their basic properties detailedly. Additionally, the concepts of a fuzzy subcovering, the reducible and intersectional elements, the union and intersection operations are provided and their properties are discussed in detail. Afterwards, we introduce the concepts of a consistent function and fuzzy covering mappings and investigate their fundamental properties. Later on the notion of a homomorphism to reveal the relationship between fuzzy covering information systems is proposed. We also show how a large-scale fuzzy covering information and homomorphism. Finally, an illustrative example is employed to show that the attribute reduction is simplified significantly by our proposed approach.

Subjects: Information Theory (cs.IT) Cite as: arXiv:1204.0072 [cs.IT] (or arXiv:1204.0072v1 [cs.IT] for this version)

Submission history

From: Guangming Lang [view email] [v1] Sat, 31 Mar 2012 04:42:11 GMT (27kb)

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