Attributes reduction methods based on traditional rough sets perform on decision tables with discrete attribute value domain. In fact, the data is usually the real values or symbols that should be reduced attributes of traditional rough sets proved ineffective because of its failure to preserve the difference of data on original objects. This problem is solved with attributes reduction methods based on fuzzy rough sets to overcome the limitations of the method according to previous rough set approach. This paper improves, analyzes and evaluates two methods of attribute reduction based on the degree of dependence between attributes and discernibility matrix of fuzzy rough set.

References

2. D. Dubois and H. Prade, Putting rough sets and fuzzy sets together, Intelligent Decision

Index Terms

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Fuzzy rough set, fuzzy decision table, discernibility matrix, attributes reduction, reduct.