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Abstrac
the subject of this thesis is to design a platform which can be used friendly and the primary goal of this platform is to generate certain reducts, S-reducts, and β-certain reducts.
In Rough Set theory, reducts are used to represent knowledge in the table without any superfluous attributes. In a rough set theory, reducts which maintain the certainly correctness of the table are not realistic. Therefore, this study will adopt the notation of the majority inclusion relation of the Variable Precision Rough Set Model. The meaning of the majority inclusion relation shows an indiscernible category will be taken within an allowed classification error, β. The majority inclusion relation is more closed to the nature and can get more approximate knowledge. In this study, β -certain reducts can be found through a two-phase process.
The platform of this study generates certain reducts, the S-reducts which allow some uncertainty ratio, k, in the positive region of the table, and β-certain reducts. Through the results of β-certain reducts from this platform, we hope users can find the smaller attribute sets which can describe knowledge in the table than others and they can apply these results to derive more accurate classifications and predictions.
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