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Abstract

Problem Statement: To enhance the pattern discovery process, the multi-level propositional
process work extends the pattern discovery process with coherent rule generation framework.
The multi-level coherent rule structure produce rules coming from diverse levels and determine
highest recurrent item sets at inferior level. The propositional logic process formed the
multilevel connection rules from logical rules and utilizes bottom-up progressive extending
technique. This method develops the effectiveness of rules with minimum support threshold but
takes longer time. Approach: To overcome the above issue, we are going to implement a new
technique termed Logic based pattern discovery using Integral Logical Derivative Rules (ILDR).
This technique is used to efficiently produce the rule with the short span of time. Results:
Performance of Integral Logical Derivative Rules technique to discover the logic based pattern
is evaluated in terms of execution time, support threshold based on number of items and
memory consumption for pattern discovery. Conclusion: Logical based pattern discovery
considers the problem of minimum support threshold. An analytical and empirical result shows
the lesser execution time with the efficient integral based pattern discovery of our proposed
scheme.

Refer}
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Index Terms

Computer Science

Information Sciences
Keywords
Pattern discovery  Derivative rules  Integral based pattern  support threshold  data mining
mining methods