
Optimal Discretization of Quantitative Attributes for Association Rules

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For $x, y \in X$ we define

$$x \leq y \text{ : , } x$$

4 Stefan Born and Lars Schmidt-Thieme

let

By abuse of language we call these intervals discrete.

For each (frequent) interval $x \in \text{Int}(A)$ there exists a most specific discrete generalization $\hat{x} \in \text{Int}_B(A)$ (i.e., a smallest superinterval). The maximal relative increase of support for discrete generalizations of frequent intervals is called the measure of partial completeness of the discretization B :

$$k(B)$$

Basically, the lemma states that we have to lower the minimum lift threshold to ¹

b

solutions exist, the one shown and its inverse order. However for $\frac{2}{\text{erse}}$

