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A Knowledge Representation for Information Filtering Using Formal Concept Analysis

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Abstract

This paper is a description of a technique to allow the manipulation of conceptual scales by domain experts through interaction and manipulation of a folding Hasse diagram. By providing a set of manipulations, the domain expert, with only an intuitive understanding of the underlying representational theory – formal concept analysis – is able to construct scales to investigate text data. The method shows how a knowledge representation language, and its diagrammatic rendering, can be used to navigate a document collection.

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