UC Merced

Proceedings of the Annual Meeting of the Cognitive Science Society

Title

How much logical structure is helpful in content-based argumentation software for legal case solving?

Permalink

Journal

ISSN

Authors

Cnossen, Fokie
Colen, Stijn
Verheij, Bart

Publication Date

Peer reviewed

How much logical structure is helpful in content-based argumentation software for legal case solving?

Stijn Colen
University of Groningen

Fokie Cnossen
University of Groningen

Bart Verheij
University of Groningen

Abstract: Current argumentation support software often employs graphical representations of logical relationships. Little is known about the extent to which logical structuring helps to increase a user's task performance. In this research, various levels of graphical representation of the logical structure of legal subject matter are experimentally compared in terms of performance. It is shown that logical structuring significantly increases task performance, but we have found no evidence that the extensive representation of logical structure as employed by several contemporary software applications is more effective or usable than a simplified graphical representation that was previously implemented in an application called ArguGuide.