

Keywords A – Z: belief revision

Consequences

the inferences which follow from your beliefs, other beliefs which your belief entail

Contained in your beliefs

to belong to or exist as an element of your beliefs

Equivalent

refers to a situation where two or more statements are logically equivalent i.e. the statements can be used interchangeably because they have the same meaning relative to a given interpretation

Expansion / expanding / expand (*different forms of the same word*)

to add new information to a set of beliefs, regardless of whether it contradicts your existing beliefs

Includes

to be contained in or equal to a set of beliefs

Interpretation

refers to a mapping of a set of statements in a belief system to truth values (True or False)

K (*symbol for knowledge base*)

refers to a set of beliefs, called a knowledge base, which contains all your beliefs about the world

New information

facts or statements introduced in the question for the purpose of reasoning in this survey

Revision / revising / revise (*different forms of the same word, has three meanings*)

1. to add new information to your beliefs if it is consistent with your existing beliefs
 2. to add an exception to your beliefs to account for the case where the new information is inconsistent with your beliefs
 3. the result of revising your beliefs must always be that your beliefs do not contradict one another
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Satisfiable

the property of a (set of) statement(s) to be true with respect to some interpretation in a belief system
