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A reasoning model based on the production of acceptable arguments

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Abstract

Argumentation is a reasoning model based on the construction of arguments and counter-arguments (defeaters) then the selection of the most acceptable of them. In this paper, we propose to take into account preference relations between arguments in order to integrate two complementary points of view on the concept of acceptability : acceptability based on the existence of direct counter-arguments and acceptability based on the existence of defenders. An argument is thus acceptable if it is preferred to its direct defeaters or if it is defended against its defeaters. We propose a proof theory verifing if a given argument is acceptable.

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