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Summary: In a military context, the process of planning operations involves the assessment of the situation, the generation of Courses of Action (COAs), and their evaluation according to significant points of view, in order to select COA that represents the best possible compromise. To support this process, an advisor tool has been developed to assist a military Operation Centre staff in managing events and their related COAs, as well as prioritizing these COAs according to different evaluation criteria by means of a multicriterion decision aid procedure. This paper describes an automated approach for explaining the ranking proposed by this decision support system.

MSC:

68T20 Problem solving in the context of artificial intelligence (heuristics, search strategies, etc.)
68T15 Theorem proving (deduction, resolution, etc.) (MSC2010)
68N17 Logic programming
68T27 Logic in artificial intelligence

Keywords:

explanation; justification; multicriterion decision aid; decision support system; planning process; courses of actions