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Finding Creative Solutions in Adversarial Impasses*

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ABSTRACT

This paper presents a method for generating creative solutions to resolve adversarial impasses that makes use of memory structures based on goal interactions and blame attribution. These knowledge structures are called Situational Assessment Packets (SAPs). SAPs contain general strategies for satisfying multiple conflicting goals either totally or partially. These resolution strategies are evaluated for applicability to a situation by considering interactions of the goals of the problem solver and the goals of the interacting agents. This work is part of the PERSUADER, a computer program that functions as a third party problem solver (mediator) in hypothetical labor negotiations.

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Poster session

Key Words: Knowledge structures, Adversarial Reasoning, Multi-agent Planning,