An Attitude Based Multi-agent Problem Solving in a Hostile World

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Abstract: In multi-agent setting agent often encounter conflicts in agents' plans and actions. This paper presents an attitude based cooperative decision making methodology that allows agents to act appropriately to various options in a hostile and dynamic fire world. It shows that attitude based decision making explore the attitudes and behaviors that help agents to solve problems constructively. The application and implementation of this methodology to a virtual fire- fighting domain has revealed a promising prospect in negotiating conflicts and solving them.

Keywords: teamwork, multi-agent systems, attitudes