

RATIONAL DECISION MAKING IN MULTI-AGENT SYSTEMS

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Abstract

An essential feature of intelligence is the ability to make autonomous choices. Satisficing game theory provides a distinct alternative approach to multi-agent decision making that is not based, at root, on individual rationality. By eschewing the demand for each agent to achieve its individual best result [7], the opportunity for collaboration and compromise is provided. In this paper we extend the results of [6] and give an iterate criterion and an algorithm for rational compromise in multi-agent systems.

Keywords: multiple agents, game theory, rationality.

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