

Argumentation in Artificial Intelligence

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Abstract

Argumentation is a form of reasoning that makes explicit the reasons for the conclusions that are drawn and how conflicts between reasons are resolved. This provides a natural mechanism, for example, to handle inconsistent and uncertain information and to resolve conflicts of opinion between intelligent agents. In consequence, argumentation has become a key topic in the logical study of commonsense reasoning and in the dialogical study of inter-agent communication. In this talk an overview will be given of current research in AI on argumentation, with special attention for the dialogical aspects of argumentation.