

Introduction

There are a number of AI reasoning modes or paradigms that have widespread application, e.g. case-based reasoning, constraint-based reasoning, model-based reasoning, rule-based reasoning. The Multimodal Reasoning Symposium was designed to encourage integration of these reasoning modes, and interaction among the corresponding research communities. Among the suggested discussion topics:

- Combining reasoning methods in a single application
- Using one form of reasoning to support or guide another
- Compiling one form of reasoning experience into another form of reasoning knowledge
- Transferring successful methods from one form of reasoning to another
- Interoperability of applications based on different reasoning technology
- Switching among alternative forms of reasoning
- Comparing and evaluating reasoning alternatives for specific problem domains
- Identifying categories, structures, or properties of knowledge or tasks for which different reasoning techniques are appropriate or advantageous
- Systematically relating reasoning formalisms
- Demonstrating practical advantages of a multimodal approach for real problems
- Identifying and exploiting commonalities

The Symposium encourages building on the specific experiences of the attendees towards general principles of multimodal reasoning architecture, multimodal both in the sense of combining modes, and in the sense of being relevant to multiple modes.