

Constraints and Agents

Research at the interface of constraint and agent technology encompasses both:

- **the modeling of agent issues, e.g. negotiation, as constraint satisfaction and optimization problems**
- **the use of agents to solve constraint satisfaction and optimization problems, e.g. distributed scheduling problems.**

It can concern both:

- **hardware agents**
- **software agents.**

It includes both:

- **applications of constraint algorithms and models**
- **applications of constraint languages and systems.**

It addresses both:

- **opportunities that agents offer to apply the constraint programming paradigm**
- **challenges that agents present to extend the paradigm.**

More specific issues include, but are not limited to:

- **constraints for real-time control of agents**
- **constraints as content in agent communication**
- **statistical properties of large multiagent searches**
- **constraint ontologies for agents**
- **constraint-based agent specification and verification.**