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.