Keywords

* Agent
* Rational agent
* Multi-agent systems

**Related to**

* Reasoning
* Knowledge
* Multi-agent languages
* Agent Programming Languages
* Multi-agent communication protocols
* Haskell Embedded Languages

**Names**

* Michael Woolridge
* Mehdi Dastani
* John-Jules Meyer
* Joseph Halpern

**Application**

* Sales negotiation

<http://link.springer.com/chapter/10.1007%2F978-3-642-02478-8_74>

<http://link.springer.com/chapter/10.1007%2F978-3-642-11161-7_30#page-1>

<http://en.wikipedia.org/wiki/Domain_specific_language>

<http://paulspontifications.blogspot.nl/2008/01/why-haskell-is-good-for-embedded-domain.html>

<http://www.cs.ox.ac.uk/people/michael.wooldridge/pubs/thesis.pdf>

Logical formalisms for describing, reasoning about, specifying, and perhaps ultimately verifying the properties of systems composed of multiple intelligent computational agents. Two resources:

* Largely AI tradition of reasoning about the intentional notions (belief, desire, etc.)
* Mainstream CS tradition of temporal logics for reasoning about reactive systems

# DSL

Agents perform actions

Purely imperative languages are unusual in the Agents literature, as in essence they are inappropriate for expressing the high-level abstractions associated with agent systems design.