Call for Papers

Special Issue on
Computational Logic-based Agents

Journal of Autonomous Agents and Multi-Agent Systems
(Springer)

The use of formal methods in general and computational logic in particular has gained an increasing interest within recent research into distributed artificial intelligence. Computational logic provides a rigorous framework for specifying, developing, and verifying autonomous interacting agents and multi-agent systems. As a consequence, over the last decade, computational logic has been playing a fundamental role in developing powerful and verifiable agent-based systems.

This special issue aims at providing a platform for researchers to present innovative and mature results in specifying, developing and verifying computational logic-based agents and multi-agent systems. Areas of interest include, but are not limited to, the following topics:

- Logical foundations of (multi-)agent systems
- Logic-based argumentation and non-monotonic reasoning for (multi-)agent systems
- Formal agent communication
- Logic-based agent programming languages
- Logic-based implementations of (multi-)agent systems
- Formal verification of agent-based systems
- Model checking algorithms, tools, and applications for (multi-)agent logics
- Completeness, soundness and complexity results of logic-based specifications of agents

We encourage submissions of high quality, original papers, which are not simultaneously submitted for publication elsewhere. Papers should be formatted according to the journal style, and not exceed 20 pages including figures, references, etc. The papers must be submitted via the journal web submission route, with the special issue option selection.

Important Dates

- Manuscript submission deadline: **July 15, 2007**
- Notification due date: **November 15, 2007**
- Camera-ready manuscript due date: **December 15, 2007**
- Publication: **April/May, 2008**

Guest Editors

- **Francesca Toni** (Imperial College London, UK)
- **Jamal Bentahar** (Concordia University, Canada)