Call for Papers: CLIMA'02

Computational Logic in Multi-Agent Systems

(affiliated with FLOC'2002 and ICLP'2002)

Copenhagen, Denmark

August 1, 2002

http://centria.di.fct.unl.pt/~jleite/clima02/

ABOUT THE WORKSHOP

Multi-agent systems (MAS) have become an increasingly important area of research, not least because of the advances in the Internet and Robotics. However multi-agent systems can become very complicated, and, consequently, reasoning about the behaviour of such systems can become extremely difficult. Therefore, it is important to be able to formalise multi-agent systems and, to do so in such a way that allows automated reasoning about agents' behaviour. The purpose of this workshop is to present techniques, based on computational logic (CL), for multi-agent systems in a formal way.

In 1999, the ICLP'99 Workshop on Multi-Agent Systems in Logic Programming was held and constituted the first in this series. It was followed by CLIMA'00 at CL2000 and CLIMA'01 at ICLP'01. In 2000, we announced a special issue of the Annals of Math and AI and we especially invited all accepted papers of CLIMA'00 for submission to this issue. We received over 20 submissions and the issue will appear early in 2002. We are planning to continue this series of workshops in the following years in order to foster interaction between the multi-agent and the computational logic communities.

We solicit unpublished papers that address formal approaches to multi-agent systems. The approaches as well as being formal must make a significant contribution to the practice of multi-agent systems. Relevant techniques include the following:

- Non-monotonic reasoning in multi-agent systems
- Planning under incomplete information in multi-agent systems
- Usage of abduction in multi-agent systems
- Representation of knowledge and belief in multi-agent systems
- Temporal reasoning for multi-agent systems
- Theory of argumentation for multi-agent negotiation and co-operation
- Communication languages for multi-agent systems
- Distributed constraint satisfaction in multi-agent systems
- Decision theory for multi-agents
- Distributed theorem proving for multi-agent systems

SUBMISSION INSTRUCTIONS

Papers should be written in English, unpublished, and not simultaneously submitted for publication elsewhere. Papers should be formatted according to the Springer LNCS style and not exceed 12 pages including figures, references, etc. Please send your paper in PostScript (PS) or Portable Document Format (PDF) file format to jleite@di.fct.unl.pt.

IMPORTANT DATES

- Submission: April 30th, 2002
- Notification of Acceptance: May 31st, 2002
- Final version due: June 20th, 2002
- CLIMA'02: August 1st, 2002

PROCEEDINGS

Informal workshop proceedings will be available. As in 2000, there will be a special issue of the Annals of Math and AI on "Computational Logic and Multi-Agency". Authors of the best CLIMA'02 papers will be invited to submit extended drafts for the special issue as a part of the volume. Further details can be found at http://centria.di.fct.unl.pt/~jleite/amai03/.

PROGRAM COMMITTEE

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INQUIRIES:

Please send program suggestions and inquires to either of the organizers.