Electronic Transactions on Artificial Intelligence
Vol. 2 (1998): *159-178*
http://www.ep.liu.se/ej/etai/1998/005/

Refereed Reference Article

Hector Levesque, Fiora Pirri, and Ray Reiter: Foundations for a Calculus of Situations

Authors' affiliations:
HL, RR: University of Toronto, Canada
FP: University of Rome "La Sapienza", Italy

This article was first submitted under the title *Foundations for the Situation Calculus.*

Abstract: *This article gives the logical foundations for the situations-as-histories variant of the situation calculus, focusing on the following items:*

- *The language of the situation calculus.*
- *Foundational axioms for the domain of situations.*
- *Axioms for an underlying domain theory.*
- *The syntax and semantics of the logic programming language GOLOG.*
- *Axioms for knowledge and sensing actions.*
- *Essential metatheoretic results about the situation calculus.*

Publication and review history

1. First version *published* by Linköping University Electronic Press on 22.12.1998 and permanently available at
   http://www.ep.liu.se/ea/cis/1998/018/
2. *Received* by the research area "Reasoning about Actions and Change" of the Electronic Transactions on Artificial Intelligence, posted on its web site, and advertised in its Newsletter on 25.11.1998.
3. Publicly *discussed* in the ETAI area of Reasoning about Actions and Change during March-May, 1999. The discussion protocol is available and will be retained in the Article Interaction Page at
   http://www.etaij.org/ra/rac/017/
4. Revised version *accepted* after due refereeing and according to scientific journal standards by the Electronic Transactions on Artificial Intelligence (ETAI) on 5.5.1999.
5. Revised version appears in Electronic Transactions on Artificial Intellligence, Volume 2 (1998), Issue 3-4, pages 159–178. The issue and the annual volume are made permanently available at
   http://www.ep.liu.se/ej/etai/1998/
6. Paper editions of the ETAI issue and the ETAI volume containing this artice *republished* by the Royal Swedish Academy of Sciences.

The review policy and the quality requirements for acceptance are documented at http://www.etaij.org/info/

Article maintenance

The Electronic Transactions on Artificial Intelligence maintains an Article Interaction Page for this article at
http://www.etaij.org/ra/rac/017/
Besides the publication and review history, it contains links for contacting the author(s), as well as to amendments and other related information for the article. It is intended to keep these links up-to-date in the future.

Copyright conditions