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Logic Programming and Nonmonotonic Reasoning

(Proceedings of the LP Track at the International NMR '98 Workshop)

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Preface

The logic programming track was one of a series of 5 workshops comprising the *7th International Workshop on Non-monotonic Reasoning* held from May 30th to June 1st. The NMR workshop was immediately preceding the *Conference on Knowledge Representation and Reasoning*, from June 2 – June 5 in Trento, Italy.

All the tracks ran in parallel during the second day of the workshop. The central topic of this track was logic programming and its extensions as they relate to non-monotonic reasoning:

- Logic programming as a non-monotonic reasoning formalism.
- Logic programming as a vehicle to implement or describe other non-monotonic formalisms.
- Applications that make use of the non-monotonic features of logic programs.

Six papers were selected out of 13 submissions. In addition to the regular papers as presented in these proceedings, Bob Kowalski (Imperial College, London, UK) gave an invited talk on

- From Logic Programming to Multi-agent Systems.

May 1998

Jürgen Dix, Koblenz
Jorge Lobo, Chicago

Proceedings

These preliminary proceedings are also available since May 20 from the following address `http://www.uni-koblenz.de/~dix/NMR7/`.

We are planning to publish a special issue of the *Annals of Mathematics and Artificial Intelligence* (with a separate refereeing process) containing selected publications in the scope of our LP-track. More information can be obtained from our web page which will be maintained and kept up-to-date.

Sponsors

University of Koblenz and Compulog Network of Excellence.

Organizing Committee

Jürgen Dix,	University of Koblenz, Germany
Jorge Lobo,	University of Chocago, USA

Schedule on Sunday, May 31

10.25 – 10.30: OPENING

10.30 – 12.00: SESSION ON EXTENDED LOGIC PROGRAMS

- (10.30 - 11.00) E. Lamma, F. Riguzzi, P. Mello and L. Pereira: *Learning with extended Logic Programs*
- (11.00 - 11.30) V. Lifschitz, L. Tang and H. Turner: *Nested Expressions in Logic Programs*
- (11.30 - 12.00) I. de Mora, J.J. Alferes and M. Schroeder: *Argumentation and Cooperation for Distributed Extended LP*

12.00 - 13.00: LUNCH

13.00 - 14.00: INVITED TALK: Bob Kowalski

14.30 - 15.30: SESSION ON KRIPKE-KLEENE and WFS

- (14.30 - 15.00) M. Denecker: *The WFS is the principle of Inductive Definition*
- (15.00 - 15.30) C. Giannella and J. Schlipf: *An Empirical Study of the 3-Valued Kripke-Kleene Semantics in Random Propositional Programs*

15.30 - 16.00: COFFEE-BREAK

16.00 - 16.30: SESSION ON DISJUNCTION

- (16.00 - 16.30) U. Furbach and W. Lue: *Disjunctive LP = Horn Program + Control Program*
- (16.30 - 17.00): Discussion and Closing