

8th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR'05)

Diamante, Cosenza, Italy
September 5-8, 2005

<http://www.mat.unical.it/lpnmr05/>

LPNMR'05 is the eighth in the series of international meetings on logic programming and nonmonotonic reasoning. Seven previous meetings were held in Washington, U.S.A. (1991), in Lisbon, Portugal (1993), in Lexington, U.S.A. (1995), in Dagstuhl, Germany (1997), in El Paso, U.S.A. (1999), in Vienna, Austria (2001), and in Fort Lauderdale, Florida (2004).

LPNMR'05 will be organized by the Department of Mathematics of University of Calabria (Italy), and will be co-located with the INFOMIX Workshop on Data Integration.

The proceedings of the conference will be published in the Springer Verlag Lecture Notes in Artificial Intelligence series, see <http://www.springer.de/comp/lncs>

AIMS AND SCOPE

LPNMR is a forum for exchanging ideas on declarative logic programming, nonmonotonic reasoning and knowledge representation. The aim of the conference is to facilitate interactions between researchers interested in the design and implementation of logic based programming languages and database systems, and researchers who work in the areas of knowledge representation and non-monotonic reasoning.

LPNMR strives to encompass these theoretical and experimental studies that lead to the construction of practical systems for declarative programming and knowledge representation.

Authors are invited to submit papers presenting original and unpublished research on nonmonotonic aspects of logic programming and knowledge representation. We particularly encourage papers on LPNMR techniques which led to the development of significant applications.

A non-exhaustive list of topics of interest includes:

1. Development and mathematical studies of logical systems with non-monotonic entailment relations:
 - Semantics of new and existing languages;
 - Relationships between formalisms;
 - Complexity and expressive power;
 - Development of inference algorithms and search heuristics for LPNMR systems;
 - Extensions of "classical" LPNMR languages by new logical connectives and new inference capabilities such as abduction, reasoning by cases, etc;
 - Updates and other operations on LPNMR systems;
 - Uncertainty in LPNMR systems.
2. Implementation of LPNMR systems:
 - System descriptions, comparisons, evaluations;
 - LPNMR benchmarks.
3. Applications of LPNMR systems:
 - LPNMR languages and algorithms in planning, diagnosis, software engineering, decision making, and other domains;
 - Applications of LPNMR languages in Data Integration and Exchange systems;
 - Methodology of representing knowledge in LPNMR languages: theory and practice;
 - Integration of LPNMR systems with other computational paradigms;
 - Embedded LPNMR systems: Systems using LPNMR subsystems.

SYSTEMS AND APPLICATIONS DEMONSTRATIONS

As part of the technical program, we also plan a special session devoted to presentations and demonstrations of implemented nonmonotonic reasoning systems. Systems and applications demonstrations track will be announced in a distinct call.

INVITED SPEAKERS

Thomas Eiter (Vienna University of Technology, Austria)

IMPORTANT DATES

Abstract Submission Deadline	March 22, 2005, 23:59:59 GMT
Paper Submission Deadline	March 25, 2005, 23:59:59 GMT
Notification (Accept/Reject)	May 16, 2005
Conference Schedule	June 6, 2005
Final Conference Papers	June 10, 2005
Early Registration Deadline	July 4, 2005

SUBMISSION OF PAPERS

Papers must not exceed thirteen (13) pages including title page, references and figures, and must be formatted according to the Springer LNCS/LNAI authors' instructions. Papers must be written in English and present original research.

Paper submission is electronic via the conference home page <http://www.mat.unical.it/lpnmr05/>.

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