

Call for Papers: LPNMR'09

10th International Conference on Logic Programming and Nonmonotonic Reasoning

Potsdam, Germany, 14-18 September, 2009

<http://www.cs.uni-potsdam.de/lpnmr09>

About the Conference

LPNMR'09 is the tenth in the series of international meetings on logic programming and nonmonotonic reasoning. Nine previous meetings were held in Washington, D.C., USA (1991), Lisbon, Portugal (1993), Lexington, Kentucky, USA (1995), Dagstuhl, Germany (1997), El Paso, Texas, USA (1999), Vienna, Austria (2001), Fort Lauderdale, Florida, USA (2004), Diamante, Italy (2005), and Tempe, Arizona, USA (2007).

The special theme for LPNMR'09 is *Applications of Logic Programming and Nonmonotonic Reasoning* in general and Answer Set Programming (ASP) in particular. LPNMR'09 aims at providing a comprehensive survey of the state of the art of ASP/LPNMR Applications.

As in the past, the proceedings of the conference will be published in the Springer Verlag Lecture Notes in Computer Science series; see <http://www.springeronline.com/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 nonmonotonic reasoning.

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

A non-exhaustive list of topics of interest includes:

- *Mathematical foundations of nonmonotonic logical systems*: Semantics of new and existing languages; Relationships among formalisms; Complexity and expressive power; Development of inference algorithms and search heuristics for LPNMR systems; Extensions of “classical” LPNMR languages; Updates and other operations on LPNMR systems; Uncertainty in LPNMR systems.
- *Implementation of LPNMR systems*: System descriptions, comparisons, evaluations; LPNMR benchmarks.
- *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.

Authors are invited to submit papers presenting original and unpublished research on nonmonotonic aspects of logic programming and knowledge representation. In addition to technical and original application papers, we also invite submissions of short papers, system descriptions, and summaries of existing successful applications of LPNMR systems, which will be presented in dedicated poster sessions. (It will be possible for authors of technical and original application papers to specify interest in short paper acceptance in case of rejection as full paper.) We particularly encourage papers on LPNMR techniques that in the past led to the development of significant applications.

ASP/LPNMR Applications We plan to have a special session at the conference devoted

to *ASP/LPNMR Applications* with a focus on applications of ASP. In addition to original application papers, we solicit papers that provide an overview of existing successful applications of ASP/LPNMR systems (see *Submission*).

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 and/or corresponding applications. Those interested in demonstrating a system/application should submit a system description or an application paper (original or summary; see *Submission*).

Second ASP Competition LPNMR'09 hosts the award ceremony of the Second Answer Set Programming Competition run prior to the conference. See <http://www.cs.kuleuven.be/~dtai/events/ASP-competition>.

Submission

LPNMR'09 welcomes submissions in the following formats:

- Technical papers (13 pages)
- Original application papers (13 pages)
- Short papers (6 pages)
- System descriptions (6 pages)
- Summaries of existing successful applications (6 pages)

All papers must not exceed the allotted number of pages including title page, references and figures. They must be formatted according to the Springer LNCS authors instructions; see <http://www.springeronline.com/lncs>. Papers must be written in English and present original research. Unless stated otherwise (as with some co-located workshops), they must not be simultaneously submitted for publication elsewhere. All submissions will be peer-reviewed by an international panel. Paper submission will be electronic through EasyChair: <http://www.easychair.org/conferences/?conf=lpnmr09>.

Workshops

The program of LPNMR'09 will also include several workshops. They are perhaps the best place for the presentation of preliminary work, novel ideas, and new open problems to a more focused and specialized audience. Workshops also provide a venue for presenting specialized topics and opportunities for intensive discussions and project collaboration in any areas related to LPNMR, including cross-disciplinary areas. Those interested in organizing a workshop at LPNMR'09 are invited to submit an informal workshop proposal to the program chairs.

Venue

The conference will be held at the University of Potsdam's Institute of Informatics. Potsdam, once a city of kings and royal residences, is today the capital of the state of Brandenburg in Germany and at the same time a European city of culture and science. The heart of Prussia is famous for its palaces and parks, its gardens and villas, and its numerous museums. Last but not least it nicely complements the adjacent capital city of Berlin.

Program Chairs

Fangzhen Lin, Hong Kong University of Science and Technology, China, <http://www.cs.ust.hk/~flin>

Torsten Schaub, University of Potsdam, Germany, <http://www.cs.uni-potsdam.de/~torsten>

ASP/LPNMR Application Theme Chair

Esra Erdem, Sabanci University, Turkey, <http://people.sabanciuniv.edu/esraerdem>

ASP Competition Chair

Marc Denecker, KU Leuven, Belgium, <http://www.cs.kuleuven.ac.be/~marcd>

Contact

Email to lpnmr09@cs.uni-potsdam.de.

Important Dates

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| Paper registration | 15 April 2009 |
| Paper submission | 20 April 2009 |
| Workshop submission | 30 April 2009 |
| Notification | 1 June 2009 |
| Final conference papers | 22 June 2009 |