Welcome to the 2nd International Workshop on Logic Programming Tools for Internet Applications

in conjunction with ICLP'97, Leuven, Belgium

Friday, July 12, 1997

Koen De Bosschere , University of Gent, Belgium (kdb@elis.rug.ac.be)
Manuel Hermenegildo , Universidad Politecnica de Madrid (herme@fi.upm.es)
Paul Tarau, University of Moncton, Canada (tarau@info.umoncton.ca)

This workshop is the second in a series intended to explore the elective affinities between Logic Programming and Internet technologies with emphasis on enhancing the World Wide Web with knowledge, deductive abilities and superior forms of interactive behavior. With the paradigm shift to highly inter-connected computers and programming tools, logic programming languages have a unique opportunity to contribute to practical Internet application development. Simplicity, remote executability, robustness, automatic memory management, are among the features some LP languages share with emerging tools like Java. Superior meta-programming and high-level distributed programming facilities, built-in grammars and dynamic databases, declarative semantics are among their competitive advantages. Embedding of LP components in Internet applications as well as recent Java-based implementations of LP languages are promising a quick integration of LP research in widely used mainstream software systems.

As its popular predecessor held at JICSLP'96 in Bonn, the workshop explores the use of logic programming tools for developing practical Internet applications as well as theoretical work based on declarative techniques giving new insights on understanding emerging net technologies.

Among the topics of interest (some slots still to be filled by future work):

- **LP-based groupware, collaborative work technologies, virtual worlds**
- **LP-based distributed objects, coordination languages**
- **LP-languages with remote processing abilities, mobile code, Internet agents**
- **LP-based HTML, VRML generators and parsers, HTTP daemons/browsers**
- **LP-based scripting languages, SSIs and CGIs**
- **embedding of logic engines in Internet applications**
- **Java-based Prolog systems and embeddable components**
- **LP-based Internet content analyzers and natural language tools**
- **LP-based hyper-text and electronic publishing systems**
- **interfaces between logic languages and conventional Web tools**
- **LP-based net search tools and spiders, net indexing tools and techniques**
- **LP-originated theoretical work on foundations of Internet technologies**

The workshop shows the potential of logic programming as a competitive technology for Internet application development and bring logic programming closer to be recognized as a mainstream programming technology. Among the 16 high quality papers submitted 10 papers have selected for presentation. We thank our program committee:

Koen De Bosschere , University of Gent, Belgium
Paolo Ciancarini, University of Bologna, Italy
Veronica Dahl, Simon Fraser University, Canada
Andrew Davison , Prince of Songkla University, Thailand
Bart Demoen, K.U. Leuven, Belgium
Manuel Hermenegildo , Universidad Politecnica de Madrid, Spain
Gustaf Neuman , University of Essen, Germany
Leon Sterling, Melbourne University, Australia
Paul Tarau, University of Moncton, Canada

for the effective and thorough refereeing process, resulting in 3-6 reviews for each submission, which helped improving the final versions of the accepted papers. A joint invited talk by Lee Naish and Ulf Nilsson shows that logic programmers can act as they preach :-) with respect to building and using their own tools and describes the unusual effectiveness of this approach in organizing logic programming conferences and program committe meetings.

We have linked together final versions (HTML and PostScript) of accepted papers in *electronic proceedings* at:

http://clement.info.umoncton.ca/~lpnet/proceedings97

With the hope that our workshop will help the Logic Programming community to have its fair share in the exciting new technologies roaming around in this more and more fascinating (and toplogicaly contrieved) global village,

Koen De Bosschere, Manuel Hermenegildo, Paul Tarau