LPAR'08

15th International Conference on Logic for Programming, Artificial Intelligence and Reasoning

November 23-27, 2008
Carnegie Mellon University, Doha, Qatar

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The series of International Conferences on Logic for Programming, Artificial Intelligence and Reasoning (LPAR) is a forum where, year after year, some of the most renowned researchers in the areas of automated reasoning, computational logic, programming languages and their applications come to present cutting-edge results, to discuss advances in these fields, and to exchange ideas in a scientifically emerging part of the world. The 2008 edition will be held in Doha, Qatar, on the premises of the Qatar campus of Carnegie Mellon University.

New results in the fields of computational logic and applications are welcome. Also welcome are more exploratory presentations, which may examine open questions and raise fundamental concerns about existing theories and practices. Topics of interest include, but are not limited to:

Automated reasoning	Logic of distributed systems
Computional interpretations of logic	Logic programming
Constraint programming	Modal and temporal logics
Constructive logic and type theory	Model checking
Decision procedures	Non-monotonic reasoning
Description logics	Ontologies
Foundations of security	Program and system verification
Implementations of logic	Proof assistants
Interactive theorem proving	Proof-carrying code
Knowledge representation and reasoning	Proof planning
Lambda calculus	Proof theory
Logic and automata	Propositional satisfiability
Logic and computational complexity	Reasoning about actions
Logic and databases	Rewriting and unification
Logic and games	Satisfiability modulo theories
Logic for the semantic web	Static analysis of programs
Logical aspects of concurrency	Specification using logics
Logical foundations of programming	Translation validation
Logic in artificial intelligence	

Invited Speakers

Edmund Clarke *(Carnegie Mellon University, USA)*
Amir Pnueli *(New York University, USA)*
Michael Backes *(Saarland University and MPI-SWS, Germany)*
Thomas Eiter *(Technical University of Vienna, Austria)*

Conference Information

Attendees can find the conference program, the registration page, information about the workshops, the venue, travel, accommodation, activities and more on the LPAR'08 web page at http://www.qatar.cmu.edu/lpar08.

Affiliated Workshops

- APS-4 — Analytic Proof Systems 4
- ALICS — Applications of Logic in Computer Security
- IWIL — International Workshop on Implementations of Logic
- KEAPPA — Knowledge Exchange: Automated Provers and Proof Assistants