CALL FOR CONTRIBUTIONS

CADE-15 Workshop on

Proof Search in Type-Theoretic Languages

Lindau, Germany
July 5, 1998

CADE-15 WPSTTL

Program Committee:

D. Galmiche (LORIA & UHP, Nancy) **(Program Chair)**
P. Lincoln (SRI, Stanford)

F. Pfenning (CMU, Pittsburgh)

D. Pym (Queen Mary & Westfield College, Univ. London)
T. Tammet (Chalmers Univ, Göteborg)

IMPORTANT DATES

Deadline for submissions:

May 14, 1998

Notification of acceptance:

May 30, 1998

Workshop handouts ready:

June 12, 1998

Workshop date:

July 5, 1998

INFORMATION

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A one day workshop on *Proof Search in Type-Theoretic Languages* will be held the 5th July 1998 in conjunction with the 15th Conference in Automated DEduction (CADE-15, Lindau, Germany). Attendance is by invitation only: authors of accepted submissions will be invited. Hardcopies of the preliminary proceedings will be distributed at the workshop. Proceedings will be published (depending of the number of high-quality papers) as a volume of Electronic Notes in Theoretical Computer Science, Elsevier Science Publishers.

TOPICS

Much recent work has been devoted to type theory and its applications to proof and program development in various logical frameworks. This workshop focuses on proof search in type-theoretic languages and their underlying logics(e.g., classical, intuitionistic, linear logics). Such languages are logical frameworks for representing proofs and in some cases formalize connections between proofs and programs that support program synthesis.
The workshop is intended to bring together researchers interested in all aspects of proof search in type-theoretic languages. The objective is to provide an integrated forum for the presentation of research and the exchange of ideas and experiences in the topics concerned with proof search in type theory and related logics or logical frameworks.

Topics of interest, in this context, include (but are not restricted to):

- foundations and semantics of proof search (sequent calculi, natural deduction, logical frameworks,...),
- methods, techniques and concepts related to proof construction (tableaux, matrix, resolution, semantic techniques, proof plans....),
- logic programming as search-based computation, integration of model-theoretic semantics,
- proof synthesis vs program synthesis,
- applications,
- equational theories and rewriting,
- decision procedures, strategies, complexity results,
- environments for formal proof development.

SUBMISSIONS

Researchers interested in presenting their works are invited to send an **extended abstract (8-10 pages)** by **e-mail submissions** of Postscript files to the Program Chair (**Didier.Galmiche@loria.fr**) before **May 14, 1998**. Researchers interested in attending the workshop (without giving a presentation) should send a position paper (1-2 pages) presenting their interest. Papers will be reviewed by peers, typically members of the program committee. The cover page should include a return mailing address and, if possible, an electronic mail address and a fax number. Additional information will be available through WWW address: **http://www.loria.fr/~galmiche/cade15-wpsttl.html**.