

4th International Workshop on Strategies in Automated Deduction

(STRATEGIES 2001)

held in conjunction with IJCAR 2001
in Siena, Italy, June 18/19, 2001

LAST CALL FOR PAPERS AND PARTICIPATION – EXTENDED DEADLINE: April 11, 2001

Workshop Co-chairs

Maria Paola Bonacina U. Iowa
Bernhard Gramlich TU Wien

Program Committee

Alessandro Armando U. Genova
Maria Paola Bonacina U. Iowa
Gilles Dowek INRIA & ICASE /
NASA-Langley
Ruben Gamboa AnythingOver-
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Bernhard Gramlich TU Wien
Bernd Löchner U. Kaiserslautern
Christophe Ringeissen LORIA-INRIA
Nancy

Local Organization

Dieter Hutter DFKI Saarbrücken
Fabio Massacci U. Siena

Invited Talks

Wolfgang Goerigk (U. Kiel, Germany):
*Mechanical Software Verification: High Level
Control Aspects from a User's Perspective*

William McCune (Argonne National
Laboratory, USA): *Manual Strategies*

Important Dates

Submission: April 11, 2001
Notification: April 30, 2001
Final versions: May 20, 2001
Workshop: June 18 or 19, 2001
IJCAR: June 18-23, 2001

Submissions

Authors interested in presenting their work related to strategies are invited to submit an extended abstract of up to 10 pages. Researchers interested in attending the workshop without giving a talk may send a position paper of 1-2 pages describing their interest in the mentioned topics. All submissions should be sent to the Program Chairs (strategies01@logic.at) in postscript before April 11, 2001. Accepted contributions will be included in the workshop proceedings which will be available at the workshop and also on the www.

Based on the submissions, the Program Chairs will consider the possibility of a formal publication (e.g., a special issue of a journal or a volume in a series of electronic proceedings) following the meeting in Siena, where authors may submit full versions of the papers presented at the workshop. This will involve another call for papers and a separate refereeing process.

In order to keep the workshop reasonable in size, attendance is by invitation only. However, depending on the number of expected active participants, we will also consider late requests for participation.

Background and Aims

Strategies are almost ubiquitous in automated deduction and reasoning systems, yet only recently have they been studied in their own right. The workshop aims at making progress towards a deeper understanding of the nature of strategies and search plans, their description, properties, and usage, especially, but not exclusively, in theorem proving and model building. It provides a common forum for researchers working on all aspects of strategies, under different terminologies and in various domains. The workshop continues and focuses the efforts of three previous workshops held in conjunction with CADE-14 (1997), CADE-15 (1998), and FLoC'99, as well as of a special issue of the *Annals of Mathematics and Artificial Intelligence on Strategies in Automated Deduction* that is currently in print.

In view of the increasing importance of strategies in complex automated reasoning systems, we would like to offer again this forum at IJCAR 2001, for an active exchange of ideas among researchers, and the presentation of recent work on and progress in strategy-related topics. IJCAR 2001 will provide an ideal context to achieve further progress and stimulate discussion in the field. We expect that the broad scientific scope of IJCAR (replacing CADE, FTP and TABLEAUX) will have synergetic effects for the workshop.

Topics of Interest

Topics of interest for the workshop include all aspects related to strategies in automated deduction. The emphasis of the next workshop will be on

- theory and analysis of strategies (e.g., formal approaches for abstract representation and comparison of theorem proving strategies and their behavior, terminological foundations),
- strategies in (existing) theorem proving systems (e.g., representation and implementation of the proof search model, integration of strategies into this model, flexibility, programmability, transparency, role of the user),
- strategy languages (e.g., adequacy for certain purposes, theoretical foundations, practical usefulness, comparison with other approaches, applications), and
- applications and case studies in which strategies play a major role.