

# Lecture Notes in Computer Science

Edited by G. Goos and J. Hartmanis

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E. Lusk R. Overbeek (Eds.)

## 9th International Conference on Automated Deduction

Argonne, Illinois, USA, May 23–26, 1988  
Proceedings

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**Editors**

Ewing Lusk  
Ross Overbeek  
Mathematics and Computer Science Division  
Argonne National Laboratory  
9700 South Cass Avenue, Argonne, IL 60439, USA

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# Preface

This volume contains the papers presented at the Ninth International Conference on Automated Deduction (CADE-9) held on May 23–26 at Argonne National Laboratory, Argonne, Illinois. The conference commemorates the twenty-fifth anniversary of the discovery of the resolution principle, which took place during the summer of 1963. Alan Robinson, Larry Wos, and Bill Miller, all of whom were at Argonne during that summer, presented invited talks at the conference.

The CADE conferences are a forum for reporting on research on all aspects of automated deduction, including theorem proving, logic programming, unification, deductive databases, term rewriting, ATP for non-standard logics, and program verification. Preceding conferences have been held at

- Argonne National Laboratory, USA, 1974 (IEEE Transactions on Computers Vol. C-25, no. 8)
- Oberwolfach, West Germany, 1976
- Massachusetts Institute of Technology, USA, 1977 (MIT, Cambridge, MA)
- University of Texas, Austin TX, USA (University of Texas, Austin, TX)
- Les Arcs, France, 1980 (Springer-Verlag Lecture Notes in Computer Science, vol. 87)
- Courant Institute, New York, USA, 1982 (Springer-Verlag Lecture Notes in Computer Science, vol. 138)
- Napa, California, USA, 1984 (Springer-Verlag Lecture Notes in Computer Science, vol. 170)
- Oxford University, Oxford, UK, 1986 (Springer-Verlag Lecture Notes in Computer Science, vol. 230)

For this ninth conference, 109 papers were submitted. All papers were refereed by at least two referees, and the program committee accepted the 52 that appear here. Also included in this volume are abstracts of 21 implementations of automated deduction systems.

We would like to thank first the authors of the papers, without whom there would be no conference. Next we thank the program committee, who handled more submissions than expected, with both industry and grace. Special thanks are due to W. W. Bledsoe for hosting the Program Committee meeting in Austin, and to Suezette Branton, who handled the local arrangements for that meeting. We also thank Argonne's Conference Services for their work on local arrangements for the conference, and our secretary Teri Huml for miscellaneous items of assistance too numerous to mention.

Ewing Lusk and Ross Overbeek  
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