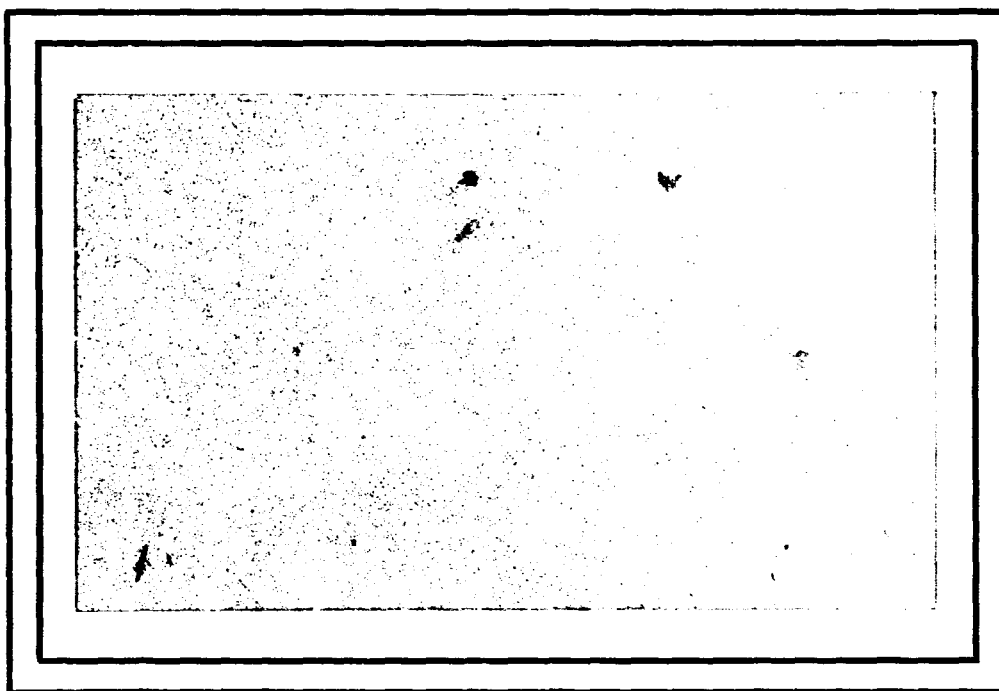


General Disclaimer

One or more of the Following Statements may affect this Document

- This document has been reproduced from the best copy furnished by the organizational source. It is being released in the interest of making available as much information as possible.
- This document may contain data, which exceeds the sheet parameters. It was furnished in this condition by the organizational source and is the best copy available.
- This document may contain tone-on-tone or color graphs, charts and/or pictures, which have been reproduced in black and white.
- This document is paginated as submitted by the original source.
- Portions of this document are not fully legible due to the historical nature of some of the material. However, it is the best reproduction available from the original submission.



UNIVERSITY OF MARYLAND
COMPUTER SCIENCE CENTER
COLLEGE PARK, MARYLAND

FACILITY FORM 602
N71-34525
(ACCESSION NUMBER)
54
(PAGES)
CR-121648
(NASA CR OR TMX OR AD NUMBER)

(THRU)
G3
(CODE)
19
(CATEGORY)

Technical Report TR-159

June 1971

OUTLINE, BIBLIOGRAPHY, AND KWIC INDEX
ON MECHANICAL THEOREM PROVING
AND ITS APPLICATIONS

by

Gordon J. VanderBrug
Daniel H. Fishman
Jack Minker

This work was supported by the National Aeronautics and Space Administration Grant NGR-21-002-270, and by the National Bureau of Standards Contract No. CST-821-5. Computer time for this work was supported by the National Aeronautics and Space Administration Grant NGL-21-002-008.

ABSTRACT

In the last decade much work has been done in both the formalization of theorem proving procedures and the development of theorem proving programs. In addition, the general logical inference capability of a theorem prover has been applied to such areas as: question-answering systems, problem-solving systems, proving theorems in abstract mathematical systems, proving the correctness of programs, writing programs, and robot technology.

In this paper we outline the significant achievements in mechanical theorem proving applications. These achievements range from foundational work in the 1920's and 1930's to current efforts. A comprehensive bibliography and KWIC index on this subject is then presented.

INTRODUCTION

The purpose of this paper is to make available to the researcher in artificial intelligence a comprehensive bibliography on mechanical theorem proving and its applications. The material cited varies from abstract mathematical foundations to practical applications. To assist in the use of this bibliography, several key papers in this field are noted briefly in the following summary account of its development.

The attempt to find mechanical proofs of theorems dates back to the work of Leibniz in the seventeenth century. However, it was not until 1929 and 1930 when Gödel, Herbrand, and Skolem wrote fundamental papers in mathematical logic, that the foundations were laid for mechanical theorem proving methods. Gödel (1930) showed that the theorems of the first-order predicate calculus (the formulas deducible from the axioms) are precisely the formulas of the first-order predicate calculus which are valid (the formulas which are true under all interpretations). The work in the modern approach to mechanical theorem proving is an outgrowth of an important paper written by Herbrand (1930). From this developed a proof procedure that attempts to find an interpretation over a general domain, called the "Herbrand Universe", that makes a certain formula false. If the alleged theorem is a theorem, then no such interpretation exists, and the process will halt after a finite number of steps. If the formula is not a theorem, then there is no guarantee that the procedure will terminate. In an important paper, Church (1936) proved that there is no general algorithm to determine if a given formula in the first-order predicate calculus is a theorem. The significance of Church's theorem for mechanical theorem proving is that the best one can expect to develop for the first-order predicate calculus is a proof procedure, rather than a general decision procedure. Hence, a reasonable

direction to proceed in developing an effective mechanical theorem prover is to improve and refine the Herbrand approach.

The impetus for work in mechanical theorem proving was renewed in the late 1950's. Much of this impetus came from the technological advancement of high-speed computers. At that time, work was started on mechanizing the concept of a proof in axiomatic systems other than the first-order predicate calculus. The approach employed was primarily the use of heuristic techniques. In 1957, Newell, Shaw, and Simon wrote a program to prove theorems in propositional calculus. Their program begins with the axioms of this system, and uses the rules of inference to make logical deductions. The paper by Newell, Shaw, and Simon is a landmark in heuristic programming. Wang (1960) showed that the same problem could be handled by mechanized proof procedures which use far less machine time and guarantee that a proof will be found for any provable proposition. In 1960, Gelernter wrote a program based on heuristic techniques to prove theorems in geometry.

Efforts in the first-order predicate calculus also continued in the late 1950's, since it was realized that successful theorem proving programs in this axiomatic system would form a basis for obtaining mechanical proofs of theorems in other areas of mathematics and related disciplines. Some proof procedures for the first-order predicate calculus, such as those proposed by Wang (1960A), and by Popplestone (1967), are based on natural deduction systems. These procedures search for a proof by means of a tree or "semantic tableau." Most proof procedures are based on Herbrand's results, and are algorithms, which when applied to a valid formula will terminate and yield a proof of the validity of the formula. However, for formulas which are not valid, in general, the computation will continue indefinitely. These procedures attempt to demonstrate that a formula is valid by showing that its negation is inconsistent, that is,

there is no interpretation which makes the negation true. Hence, they "prove" formula by "refuting" its negation, and therefore, are called refutation procedures. Refutation procedures accept formulas in the first-order predicate calculus only in a special notation. The foundations for this notation were given by Skolem (1928). Gilmore (1960) developed an implementation of the Herbrand approach. Davis and Putnam (1960) showed how one can improve on the Gilmore program. Chinlund, et al, (1964), also developed an implementation that involved the Herbrand expansion explicitly. Prawitz (1960) in an important paper was the first to suggest a more efficient way of examining the elements of the "Herbrand Base."

The current work in formal theorem proving derives from the landmark paper J. A. Robinson (1965), who developed a machine-oriented logic for the first-order predicate calculus that involves only one rule of inference, commonly referred to as the Robinson Resolution Principle. The discovery of this principle was marked by the publication of an abstract by J. A. Robinson (1963A). The rule of inference prohibits the generation of unnecessary instances of formulas, a phenomenon which plagued earlier theorem provers. The development of the Robinson Resolution Principle has resulted in considerable literature on strategies that a resolution-based theorem prover can employ. Some methods of restricting resolution are: unit preference and set of support strategies due to Wos, Carson, G. Robinson (1964, 1965); hyper-resolution and the semantic tree method of J. A. Robinson (1965, 1965A); the renaming method of Meltzer (1966) to use PI-deduction described by J. A. Robinson (1965); the maximal clash method and the semantic resolution method of Slagle (1967); linear resolution due to Loveland (1968); resolution with merging due to Andrews (1968); the ancestry filter method of Luckham (1968); first-literal resolution due to Kowalski and Hayes (1969); and the method of eliminating subsumed clauses

discussed by J. A. Robinson (1965), and by Loveland (1968). Meltzer and Kowalski (1970A) have reported work in formalizing the concept of the efficiency of a proof procedure (which is defined as an inference mechanism and a search strategy), and have pointed out the important difference between the simplicity of a proof and the ease of finding it. A new technique for establishing the completeness of resolution-based deductive systems for first-order logic has been given by Anderson and Bledsoe (1970A). Yates, Raphael and Hart (1970) have introduced a new representation, termed "resolution graphs", for deductions in first-order logic. Resolution graphs provide a basis for proving the completeness of a proof strategy that combines the set of support, resolution with merging, linear format and Loveland's subsumption conditions.

The equality relation in the first-order predicate calculus has been troublesome to deal with. Wos and G. Robinson (1968) have proposed an inference system based on an inference rule called paramodulation to handle the equality relation. Darlington (1968) used a single axiom in second-order logic to handle equality substitutions. J. A. Robinson (1968) used a generalized resolution principle with built-in equality. To achieve "larger" inference steps, Meltzer (1970) has suggested the use of "macro" predicates, and in the same paper reported on an extension of theorem proving programs which results in the ability to do induction. Some initial efforts have been directed toward obtaining proof procedures for higher-order calculi. This work is reported in Gould (1966), and J. A. Robinson (1969, 1970). A good discussion of the use of calculi to formalize concepts like situations, future operators, actions, and strategies has been written by McCarthy and Hayes (1969).

There have been a number of applications of theorem proving methods. One of the early and most successful theorem proving programs that used a refutation procedure was written by Wos, G. Robinson, and Carson (1964) at Argonne

National Laboratory. The program uses the resolution principle, and has been successful in proving theorems in abstract algebra. Guard et al., (1969) have reported that an open problem in modular lattice theory has been solved by use of an interactive theorem proving program. Allen and Luckham (1970) are also implementing an interactive theorem prover.

Green and Raphael (1967, 1968, 1969, 1969A, 1969B) were the first to demonstrate that theorem proving techniques based on the resolution principle could be applied to the design of question-answering and problem solving systems. They showed that the set of facts necessary for answering questions (solving problems) can be viewed as axioms, and the query (or problem to be solved) can be viewed as the theorem to be proved. They also developed an answer extraction process so that a question-answering system using theorem proving techniques could give more than a "yes" or "no" response to a query. Luckham and Nilsson (1970) developed more general techniques for extracting information from resolution proof trees. Darlington (1969, 1969A) has also reported work in the applications of theorem proving techniques to question-answering systems. He has shown how one may implement counting (1969A) in the first-order predicate calculus, and has developed some strategies for information retrieval problems.

Work on the use of theorem proving techniques to prove the correctness of programs has been reported by Manna (1968, 1969, 1969A), by Manna and McCarthy (1970A), and by Manna and Pnueli (1970B). Waldinger (1969), Waldinger and Lee (1969A), Green (1969, 1969B), and Manna and Waldinger (1970) are experimenting with theorem proving techniques to construct programs automatically. Lee (1967) and Slagle (1969) have reported work on consequence finding. The application of theorem proving to robots is being pursued at Stanford Research Institute and the University of Edinburgh, and is reported on by Coles (1969), Raphael

(1968), Nilsson (1969A), and Burstall (1970).

The technology of mechanical theorem proving has developed rapidly since J. A. Robinson's landmark paper, and there is no one source that the reader can go to for a unified treatment of the subject. J. A. Robinson has written several excellent survey articles (1967, 1970). A significant textbook by Nilsson (1971), entitled "Problem Solving Methods in Artificial Intelligence", gives an excellent account of theorem proving based on the Robinson Resolution Principle, and its application to problem solving in artificial intelligence.

The remainder of this paper is subdivided into two parts. The first part is a comprehensive bibliography on mechanical theorem proving and its applications. The bibliography is sequenced according to a code which is generally an abbreviation of the first author's last name and the year of publication. Following the bibliography is a Key Word In Context (KWIC) index which serves as a subject catalog. The index contains, in alphabetical order, all of the key words in all of the titles in the bibliography. Each of the key words appears together with the rest of the title in which it occurs and the corresponding sequence code. The sequence code can be used to look up the complete citation in the bibliography.

Wherever complete citations were not available, the best available information is given. The language of the paper is the same as the language of the title. We apologize to authors who have written relevant papers that have not been included in the KWIC index. We plan to maintain the bibliography, and to distribute it to interested individuals periodically. Suggestions for corrections, additions, and improvements to make the index of greater utility to researchers will be welcome. Researchers are invited to send their papers to the authors so that they may include their work in subsequent revisions of the index.

We appreciate the assistance of B. Raphael of Stanford Research Institute and R. Lee and C. L. Chang of the National Institutes of Health who generously made available to us their private bibliographies. We also appreciate the support and encouragement of S. Rosenfeld of the National Aeronautics and Space Administration.

SORTED BIBLIOGRAPHY

- ACKERR-67 ACKERMAN, R.
INTRODUCTION TO MANY VALUED LOGIC.=
DOVER, N. Y., 1967.
- ACKERM-54 ACKERMANN, W.
SOLVABLE CASES OF THE DECISION PROBLEM.
= IN: PROUWER, BETH, AND HEYTING (EDS.), STUDIES IN LOGIC
AND THE FOUNDATIONS OF MATHEMATICS, NORTH-HOLLAND, 1954.
- ALLENJ-70 ALLEN, J. AND D. LUCKHAM.
AN INTERACTIVE THEOREM-PROVING PROGRAM.
= IN: MELTZER, B., AND D. MICHIE (EDS.), MACHINE
INTELLIGENCE 5, AM. ELSEVIER, NEW YORK, N.Y., 1970, 321-336.
- AMARES-62 AMAREL, S.
AN APPROACH TO PROBLEM-SOLVING BY COMPUTER.
= FINAL REP. AFCRL-62-367, PT. 2, AIR FORCE CAMBRIDGE RES.
LAB., CAMBRIDGE, MASS., MAY 1962.
- AMARES-67 AMAREL, S.
AN APPROACH TO HEURISTIC PROBLEM SOLVING AND THEOREM-PROVING
IN PROPOSITIONAL CALCULUS.
= IN: MART, J. F., AND S. TAKASU, (EDS.), SYSTEMS AND
COMPUTER SCIENCE, U. OF TORONTO. PR, 1967.
- AMARES-68 AMAREL, S.
REPRESENTATIONS OF PROBLEMS OF REASONING ABOUT ACTIONS.
= IN: MICHIE, D. (ED.), MACHINE INTELLIGENCE 3,
EDINBURGH U. PRESS, 1968, 131-171.
- ANDERR-70 ANDERSON, R.
COMPLETENESS RESULTS FOR E-RESOLUTION.
= AFIPS CONF. PROC., VOL. 36, 1970 SJCC, AFIPS PRESS,
MONTVALE, N.J., 1970, 653-656.
- ANDERR-70A ANDERSON, R., AND W.W. BLEDSE.
A LINEAR FORMAT FOR RESOLUTION WITH MERGING AND A NEW
TECHNIQUE FOR ESTABLISHING COMPLETENESS. =
J. ACM 17, 3(JULY 1970), 525-534.
- ANDREP868 ANDREWS, P. H.
RESOLUTION WITH MERGING. =
J. ACM 15, 3(JULY 1968), 367-381.
- ANDREP868A ANDREWS, P. H.
ON SIMPLIFYING THE MATRIX OF A WFF. =
J. SYMBOLIC LOGIC 33(1968), 180-192.
- ANDREP870 ANDREWS, P. H.
RESOLUTION IN TYPE THEORY.
=REPORT 70-27, DEPT. OF MATH, CARNEGIE-MELLON UNIV., JULY
1970.
- ASHCRE-71 ASHCROFT, E., AND Z. MANNA.
FORMALIZATION OF PROPERTIES OF PARALLEL PROGRAMS.

=IN: MELTZER, B. AND D. MICHIE (EDS.), MACHINE INTELLIGENCE
6, EDINBURGH U. PRESS, 1971, 17-42.

- BACKEP-63 BACKER, P., AND D. SAYRE.
THE REDUCED MODEL FOR SATISFIABILITY FOR TWO DECIDABLE
CLASSES OF FORMULAE IN THE PREDICATE CALCULUS. =
IBM RESEARCH REPORT, RC 1083, 1963.
- BENNEJH63 BENNETT, J.H., W.B. EASTON, J.R. GUARD, AND T.H. MOTT, JR.
INTRODUCTION TO SEMI-AUTOMATED MATHEMATICS.
= AFCL 63-180, AIR FORCE CAMBRIDGE RESEARCH LAB.,
CAMBRIDGE, MASS. APRIL 1963.
- SENNEJH64 BENNETT, J.H., W.B. EASTON, J.R. GUARD, AND T.H. MOTT, JR.
TOWARD SEMI-AUTOMATED MATHEMATICS: THE LANGUAGE AND LOGIC
OF SAM III.
= SCI. REP. NO. 2, AFCL 64-562, AIR FORCE CAMBRIDGE RES.
LAB., CAMBRIDGE, MASS., MAY 1964.
- BENNEJH64A BENNETT, J.H., W.B. EASTON, AND J.R. GUARD, ET AL.
SEMI-AUTOMATED MATHEMATICS: SAM IV.
= SCI. REP. NO. 3, AFCL 64-827, AIR FORCE CAMBRIDGE RES.
LAB., CAMBRIDGE, MASS., OCT. 1964.
- BENNEJH67 BENNETT, J.H., W.B. EASTON, J.R. GUARD, AND L.G. SETTLE.
CRT-AIDED SEMI-AUTOMATED MATHEMATICS.
= FINAL REPORT, AFCL 67-017, AIR FORCE CAMBRIDGE RES. LAB.,
CAMBRIDGE, MASS., JAN. 1967.
- BETH-EW63 BETH, E. W.
OBSERVATIONS CONCERNING COMPUTING, DEDUCTION AND HEURISTICS.
= IN: BRAFFORT, P., AND D. HIRSHBERG, COMPUTER PROGRAMMING
AND FORMAL SYSTEMS. NORTH HOLLAND, 1963, 21-32.
- BETH-E-62 BETH, E.
FORMAL METHODS. =
REIDEL, DORDRECHT, 1962.
- BING-K-69 BING, KURT.
NATURAL DEDUCTION WITH FEW RESTRICTIONS ON VARIABLES. =
INF. SCIENCES 1, 4(OCT. 1969), 381-402. (CR 12,921)
- BLACKF-64 BLACK, F.
A DEDUCTIVE QUESTION-ANSWERING SYSTEM.
= IN: MINSKY, M. (ED.), SEMANTIC INFORMATION PROCESSING,
MIT PRESS, 1968, 354-403 (AUTHOR'S PH.D THESIS, 1964).
- BLEDSW71 BLEDSOE, W. W.
SPLITTING AND REDUCTION HEURISTICS IN AUTOMATIC THEOREM
PROVING. =
A. I. JOURNAL, MARCH 1971.
- BLEDSW71A BLEDSOE, W. W., R. S. BOYER, AND W. H. HENNEMAN.
COMPUTER PROOF OF LIMIT THEOREMS. =
PROC. INT'L. JOINT CONF. ON A. I., LONDON, (SEPTEMBER 1971).
- BRICEC-71 BRICE, C., AND J. DERKSEN.

A HEURISTICALLY GUIDED EQUALITY RULE IN A RESOLUTION
THEOREM PROVER.
= TECH. NOTE 45, A. I. GROUP, STANFORD RESEARCH INST.,
MENLO PARK, CALIF., 1971.

- BROWNTC68 BROWN, T. C.
RESOLUTION WITH COVERING STRATEGIES AND EQUALITY THEORY. =
CALIF. INSTITUTE OF TECHNOLOGY, CALIF., (1968).
- BUCHIJR58 BUCHI, J. R.
TURING MACHINES AND THE ENTSCHEIDUNGS-PROBLEM. =
MATHEMATISCHE ANNALEN, 148(1958), 201-213.
- BURSTRM68 BURSTALL, R. W.
A SCHEME FOR INDEXING AND RETRIEVING CLAUSES FOR A
RESOLUTION THEOREM-PROVER.
= MIP-R-45, DEPT. OF MACHINE INTELLIGENCE AND PERCEPTION,
UNIV. OF EDINBURGH, EDINBURGH, SCOTLAND, 1968.
- BURSTRM69 BURSTALL, R. W.
PROVING PROPERTIES OF PROGRAMS BY STRUCTURAL INDUCTION. =
CCMP. J. 12, 1, 41-48.
- BURSTRM70 BURSTALL, R. W.
FORMALISING SEMANTICS OF FIRST ORDER LOGIC IN FIRST ORDER
LOGIC, AND APPLICATION TO PLANNING FOR ROBOTS.
= MIP-R-73, DEPT. OF MACHINE INTELLIGENCE AND PERCEPTION,
UNIV. OF EDINBURGH, EDINBURGH, SCOTLAND, MARCH 1970.
- BURSTRM70A BURSTALL, R. W.
FORMAL DESCRIPTION OF PROGRAM STRUCTURE AND SEMANTICS
IN FIRST-ORDER LOGIC.
= IN: MELTZER, B. AND MICHIE, D. (EDS.). MACHINE
INTELLIGENCE 5, EDINBURGH U. PRESS, 1970, 79-98.
- CANTRRG69 CANTRARELLA, R. G.
EFFICIENT MAXIMAL SEMANTIC RESOLUTION PROOFS BASED UPON
BINARY SEMANTIC TREES.
= TR-69-3, ELECTRICAL ENGINEERING DEPT., SYRACUSE UNIV.,
SYRACUSE, N. Y., JUNE, 1969.
- CHANGCC58 CHANG, C. C.
ALGEBRAIC ANALYSIS OF MANY VALUED LOGICS.=
TRANS. OF THE AMER. MATH. SOC. 88, 1958, 467-490.
- CHANGCL70 CHANG, C. L. AND R. C. T. LEE.
NOTES ON THEOREM-PROVING.
= DIV. OF COMPUTER RES. AND TECH., NATIONAL INSTITUTES OF
HEALTH, BETHESDA, MD., 1970. (UNPUBLISHED).
- CHANGCL70A CHANG, C. L.
THE UNIT PROOF AND THE INPUT PROOF IN THEOREM PROVING.=
J. ACM 17, 4(OCT. 1970), 698-707.
- CHANGCL70B CHANG, C. L.
RENAMABLE PARAMODULATION FOR AUTOMATIC THEOREM-PROVING
WITH EQUALITY. =

- CHANGCL71 CHANG, C. L., AND J. R. SLAGLE.
COMPLETENESS OF LINEAR REFUTATION FOR THEORIES WITH
EQUALITY. =
J. ACM 18, 1(JAN. 1971), 126-136.
- CHANGCL71A CHANG, C. L.
THEOREM PROVING WITH VARIABLE-CONSTRAINED RESOLUTION.
= DIV. OF COMP. RES. AND TECH., N. I. H., BETHESDA, MD.,
1971.
- CHINLTJ64 CHINLUND, T. J., M. DAVIS, P. G. HINMAN, AND D. MCILROY.
THEOREM-PROVING BY MATCHING. =
BELL LABORATORIES, SPRING 1964.
- CHURCA-36 CHURCH, A.
A NOTE ON THE ENTSCHIEDUNGSPROBLEM. =
J. SYMBOLIC LOGIC 1 (1936), 40-41.
- CHURCA-41 CHURCH, A.
THE CALCULI OF LAMBDA-CONVERSION. =
PRINCETON UNIV. PRESS, 1941.
- CHURCA-65 CHURCH, A.
AN UNSOLVABLE PROBLEM OF ELEMENTARY NUMBER THEORY.
= IN: DAVIS, M. THE UNDECIDABLE, RAVEN PRESS, HEWLETT,
N.Y., 1965, 88-107.
- CCHENJ-70 COHEN, J., AND A. RUBIN.
AN INTERACTIVE SYSTEM FOR PROVING THEOREMS IN THE PREDICATE
CALCULUS. =
SECOND SYM. ON SYMBOLIC AND ALGEBRAIC MANIPULATION, 1971.
- CCOK-SA71 COOK, S. A.
THE COMPLEXITY OF THEOREM-PROVING PROCEDURES.
= THIRD ANNUAL ACM SYMP. ON THEORY OF COMPUTING, SHAKER
HEIGHTS, OHIO, MAY 3-5, 1971.
- CCOPEDC66 COOPER, D. C.
THEOREM PROVING IN COMPUTERS.
= IN: FOX, L. (ED.), ADVANCES IN PROGRAMMING AND NON-
NUMERICAL COMPUTATION, PERGAMON PRESS, 1966.
- CCOPEDC71 COOPER, D. C.
PROGRAMS FOR MECHANICAL PROGRAM VERIFICATION.
= IN: MELTZER, B. AND D. MICHIE (EDS.), MACHINE INTELLIGENCE
6, EDINBURGH U. PRESS, 1971, 43-62.
- CCOPEWS64 COOPER, W. S.
FACT RETRIEVAL AND DEDUCTIVE QUESTION-ANSWERING
INFORMATION RETRIEVAL SYSTEMS, =
J. ACM 11, 2(APR. 1964), 117-137.
- CRAIGW-57 CRAIG, W.
LINEAR REASONING. A NEW FORM OF THE HERRBRAND-GENTZEN
THEOREM. =

J. SYMBOLIC LOGIC 22(1957), 250-268.

CRAIGW-57A CRAIG, W.

THREE USES OF THE HERBRAND-GENTZEN THEOREM RELATING MODEL
THEORY TO PROOF THEORY. =

J. SYMBOLIC LOGIC 22(1957), 269-285.

CARLIJL62 DARLINGTON, J.L.

A COMIT PROGRAM FOR THE DAVIS-PUTNAM ALGORITHM.

= RES. LAB. ELECTRON., MECH. TRANSL. GRP.,

MIT, CAMBRIDGE, MASSACHUSETTS, MAY 1962.

CARLIJL64 DARLINGTON, J.L.

TRANSLATING ORDINARY LANGUAGE INTO SYMBOLIC LOGIC. =

MAC-M-149, M.I.T., CAMBRIDGE, MASS., MARCH 1964.

CARLIJL65 DARLINGTON, J.L.

MACHINE METHODS FOR PROVING LOGICAL ARGUMENTS EXPRESSED
IN ENGLISH. =

MECH. TRANS. 8, JUNE 1965, 41-67.

DARLIJL68 DARLINGTON, J.L.

SOME THEOREM-PROVING STRATEGIES BASED ON THE RESOLUTION
PRINCIPLE.

= IN: DALE, E., AND D. MICHIE (EDS.), MACHINE
INTELLIGENCE 2, AMERICAN ELSEVIER, NEW YORK, 1968, 57-71.

DARLIJL68A DARLINGTON, J.L.

AUTOMATIC THEOREM PROVING WITH EQUALITY SUBSTITUTIONS AND
MATHEMATICAL INDUCTION.

= IN: MICHIE, D. (ED.), MACHINE INTELLIGENCE 3,
AMERICAN ELSEVIER, NEW YORK, 1968, 113-127.

DARLIJL69 DARLINGTON, J.L.

THEOREM PROVING AND INFORMATION RETRIEVAL.

= IN: MELTZER, R. AND D. MICHIE (EDS.), MACHINE
INTELLIGENCE 4, AM. ELSEVIER, N.Y., 1969, 173-181. (CR12465)

DARLIJL69A DARLINGTON, J.L.

THEOREM PROVERS AS QUESTION ANSWERERS.

= ABSTRACT IN: WALKER AND NORTON (EDS.), PROC. INT'L JOINT
CONF. ON A. I., WASHINGTON, D. C., MAY 1969, 317.

DARLIJL71 DARLINGTON, J. L.

A PARTIAL MECHANIZATION OF SECOND-ORDER LOGIC.

= IN: MELTZER, R. AND D. MICHIE (EDS.), MACHINE INTELLIGENCE
6, EDINBURGH U. PRESS, 1971, 91-100.

DAVISM-60 DAVIS, M., AND H. PUTNAM.

A COMPUTING PROCEDURE FOR QUANTIFICATION THEORY. =
J. ACM 7, 3(JULY 1960), 201-215.

DAVISM-62 DAVIS, M., G. LOGEMANN, AND D. LOVELAND.

A MACHINE PROGRAM FOR THEOREM-PROVING. =
COMM. ACM 5, 7(JULY 1962), 394-397.

DAVISM-63 DAVIS, M.

ELIMINATING THE IRRELEVANT FROM MECHANICAL PROOFS. =
PROC. OF SYMPOSIA IN APPL. MATH., 15 (1963), 15-30.

- CAVISM-65 DAVIS, M.
THE UNDECIDABLE. =
HAVEN PRESS, HEWLETT, N.Y., 1965.
- CAVYDGV67 DAVYDOV, G. V.
A PROOF METHOD FOR THE CLASSICAL PREDICATE CALCULUS.
= IN: ZAPISKI NAUCHNYH SEMINAROV LOMI, 4, (1967), 8-17.
(TRANSLATED).
- DAVYDGV69 DAVYDOV, MASLOV, MINTS, OREVKOV, AND SLISENKO.
A COMPUTER ALGORITHM FOR ESTABLISHING DEDUCTIBILITY, BASED
ON INVERSE METHOD. =
IN: ZAPISKI NAUCHNYH SEMINAROV LOMI, 16, (1969), 8-19.
- DIPAORA69 DIPAOLO, R.A.
THE RECURSIVE UNSOLVABILITY OF THE DECISION PROBLEM FOR
THE CLASS OF DEFINITE FORMULAS. =
J. ACM 16, 2 (APRIL 1969), 324-327.
- DIPAORA71 DIPAOLO, R. A.
THE RELATIONAL DATA FILE AND THE DECISION PROBLEM FOR
CLASSES OF PROPER FORMULAS.
= IN: WINKER, J. AND ROSENFELD, S. (EDS.), PROC. OF SYMP.
ON J. S. AND R., U. OF MD., APRIL, 1971, 95-104.
- DIXONJK70 DIXON, JOHN K.
AN IMPROVED METHOD FOR SOLVING DEDUCTIVE PROBLEMS ON A
COMPUTER BY COMPILED AXIOMS. =
PH.D., THESIS, COMPUTER SCIENCE, UNIV. OF CALIF., SEPT. 1970.
- DIXONJK71 DIXON, JOHN K.
THE SPECIALIZER: A METHOD OF AUTOMATICALLY WRITING COMPUTER
PROGRAMS.
= HEURISTICS LAB., DIV. OF COMP. RES. AND TECH., N. I. H.,
BETHESDA, MD., 1971.
- DREBEB-52 DREBEN, B.
ON THE COMPLETENESS OF QUANTIFICATION THEORY. =
PROC. NAT'L ACADEMY SCIENCES, 38 (1952), 1047-1052.
- DREBEB-63 DREBEN, B., AND R. GOLDBERG.
ON THE DECISION PROBLEM OF THE FIRST ORDER PREDICATE
CALCULUS: THE CLASSICAL CASES AND SOLVABLE SURANYI
SUBCASES. =
IBM RESEARCH REPORT, RC -892, 1963.
- DUNHAB-59 DUNHAM, B., R. FRIDSHAL, AND G. SWARD.
A NON-HEURISTIC PROGRAM FOR PROVING ELEMENTARY LOGICAL
THEOREMS.
= PROC. OF THE INT'L. CONF. ON INF. PROCESSING.
UNESCO, PARIS, 1959, 282-287.
- DUNHAB-61 DUNHAM, B., R. FRIDSHAL, AND J. H. NORTH.
EXPLORATORY MATHEMATICS BY MACHINE.

=PROC. SYM. DECISION AND INFORMATION PROCESSES, MACMILLAN,
N. Y., 1961.

- DUNHAB-62 DUNHAM, B., AND J. H. NORTH.
THEOREM TESTING BY COMPUTER.
= SYMPOSIUM ON THE MATHEMATICAL THEORY OF MACHINES,
BROOKLYN POLYTECHNIC INSTITUTE, 1962, 172-177.
- ELLIORW65 ELLIOTT, R.W.
A MODEL FOR A FACT RETRIEVAL SYSTEM.
= PH.D. THESIS, TNN-42, COMPUTATION CENTER,
UNIV. OF TEXAS, AUSTIN, TEXAS, MAY 1965.
- FIKESR-71 FIKES, R. E., AND N. J. NILSSON.
STRIPS: A NEW APPROACH TO THE APPLICATION OF THEOREM
PROVING TO PROBLEM SOLVING. =
PROC. INT'L. JOINT CONF. ON A. I., LONDON, (SEPTEMBER 1971).
- FISHMDH70 FISHMAN, D.H.
THE APPLICATION OF THEOREM-PROVING TECHNIQUES TO
QUESTION-ANSWERING SYSTEMS.
= SCHOLARLY PAPER 8, COMPUTER SCIENCE CENTER,
UNIV. OF MARYLAND, COLLEGE PARK, MD., MAY 1970.
- FRIEDJ-63 FRIEDMAN, J.
A SEMI-DECISION PROCEDURE FOR THE FUNCTIONAL CALCULUS. =
J. ACM 10, 1(JAN. 1963), 1-24.
- FRIEDJ-63A FRIEDMAN, J.
COMPUTER PROGRAM FOR A SOLVABLE CASE OF DECISION PROBLEM. =
J. ACM 10, 1963, 348-357.
- FRIEDJ-65 FRIEDMAN, J.
COMPUTER REALIZATION OF A DECISION PROCEDURE IN LOGIC.
= PROC. IFIP CONGRESS, SPARTAN BOOKS, WASHINGTON, D. C.,
1965, 327-328.
- GARVETD69 GARVEY, T.D.
USERS GUIDE TO GA 3.5 QUESTION-ANSWERING SYSTEM.
= TECH. NOTE 15, ARTIFICIAL INTELLIGENCE GROUP, STANFORD
RESEARCH INST., MENLO PARK, CALIF., DEC. 1969.
- GELERH-60 GELERTNER, H., J. R. HANSEN, AND D. W. LOVELAND.
EMPIRICAL EXPLORATIONS OF THE GEOMETRY THEOREM MACHINE. =
PROC. WESTERN J.C.C. 17(1960), 143-147.
- GELERH-63 GELERTNER, H.
REALIZATION OF A GEOMETRY-THEOREM-PROVING MACHINE.
= IN: FEIGENBAUM, E. A. AND FELDMAN, J., (EDS.), COMPUTERS
AND THOUGHT, MCGRAW-HILL, NEW YORK, 134-152.
- GILMOPC59 GILMORE, P.C.
A PROGRAM FOR THE PRODUCTION FROM AXIOMS OF PROOFS FOR
THEOREMS DERIVABLE WITHIN THE FIRST ORDER PREDICATE CALCULUS
= PROC. OF THE INT'L. CONF. ON INF. PROCESSING,
UNESCO, PARIS, 1959, 265-273.

GILMOPC60 GILMORE, P.C.
A PROOF METHOD FOR QUANTIFICATION THEORY. =
IBM J. RES. DEVELOP. 4 (1960), 28-35.

GODELK-36 GODEL, K.
UEBER DIE LANGE VON BEWEISEN. =
ERGEBNISSE EINES MATH. KOLL., VOL. 7(1936), PP.23-24

GODELK-67 GODEL, K.
THE COMPLETENESS OF THE AXIOMS OF THE FUNCTIONAL CALCULUS
OF LOGIC.
= IN: VAN HEIJENOORT, J. FROM FREGE TO GODEL: A SOURCE BOOK
IN MATHEMATICAL LOGIC, HARVARD, 1967, 582-591.

GODELK-67A GODEL, K.
ON FORMALLY UNDECIDABLE PROPOSITIONS OF PRINCIPIA
MATHEMATICA AND RELATED SYSTEMS.
= IN: VAN HEIJENOORT, J. FROM FREGE TO GODEL: A SOURCE BOOK
IN MATHEMATICAL LOGIC, HARVARD, 1967, 592-617.

GOLOTJJ69 GOLOTA, JA. JA.
NETS OF MARKS AND DEDUCIBILITY IN INTUITIONISTIC
PROPOSITIONAL CALCULUS.=
IN: ZAPISKI NAUCHNYH SEMINAROV LOMI, 16, 28-43, 1969.

GOULDWE66 GOULD, W. E.
A MATCHING PROCEDURE FOR OMEGA-ORDER LOGIC.
= SCI. REP. 4, APPLIED LOGIC CORP., PRINCETON, N. J.,
OCTOBER 1966. (AD-646560).

GREENCC67 GREEN C. C., AND H. RAPHAEL.
RESEARCH ON INTELLIGENT QUESTION ANSWERING SYSTEMS.
= SCIENTIFIC REPORT 1, CONTRACT AF 19(628)-5919, SRI
PROJ. 4641, SRI, MENLO PARK, CALIF., (MAY 1967).

GREENCC68 GREEN, C.C., AND H. RAPHAEL.
THE USE OF THEOREM PROVING TECHNIQUES
IN QUESTION-ANSWERING SYSTEMS.
= PROC. - 1968 ACM NATIONAL CONF., BRANDON/SYSTEMS PRESS,
PRINCETON, N.J., 1968, 169-181.

GREENCC69 GREEN, C.C.
THE APPLICATION OF THEOREM-PROVING TO QUESTION-ANSWERING
SYSTEMS.
= PH.D. THESIS, AI MEMO-96, DEPT. OF COMPUTER SCIENCE,
STANFORD UNIV., STANFORD, CALIF., JUNE 1969. (AD-696394)

GREENCC69A GREEN, C. C.
THEOREM-PROVING BY RESOLUTION AS A BASIS FOR
QUESTION-ANSWERING SYSTEMS.
= IN: MELTZER, B. AND U. MICHIE (EDS.), MACHINE
INTELLIGENCE 4, AM. ELSEVIER, N.Y., 1969, 183-205. (CR18534)

GHEENCC69B GREEN, C.C.
APPLICATION OF THEOREM-PROVING TO PROBLEM-SOLVING.
= IN: WALKER AND NORTON (EDS.), PROC. INT'L. JOINT CONF. ON
A. I., WASHINGTON, D. C. (MAY 1969), 219-239.

GLANDJH64 GUARD, J.R.
AUTOMATED LOGIC FOR SEMI-AUTOMATED MATHEMATICS.
= SCI. REP. NO. 1, AFCHL 64-411, AIR FORCE CAMBRIDGE RES.
LAB., CAMBRIDGE, MASS., MARCH 1964.

GLANDJR69 GUARD, J.R., F.C. OGLESBY, J.H. BENNETT, AND L.G. SETTLE.
SEMI-AUTOMATED MATHEMATICS, =
J. ACM 16, 1(JAN. 1969), 49-62.

GLANDJR70 GUARD, J. R.
THE ARBITRARILY-LARGE ENTITIES IN MAN-MACHINE MATHEMATICS.
= IN: PESAROVIC, D. MIHAJLO AND R. B. BANERJI (EDS.), FORMAL
SYSTEMS AND NONNUMERICAL PROBLEM SOLVING BY COMPUTERS, 1970.

HART-TP65 HART, T. P.
A USEFUL ALGEBRAIC PROPERTY OF ROBINSON'S UNIFICATION
ALGORITHM.
= A. I. MEMO 91, ARTIFICIAL INTELLIGENCE PROJECT,
M. I. T., CAMBRIDGE, MASS., 1965.

HAYESPJ69 HAYES, P. J.
A MACHINE ORIENTED FORMULATION OF THE EXTENDED FUNCTIONAL
CALCULUS.
= AI-MEMO-86, COMPUTER SCIENCE DEPT., STANFORD UNIV.,
STANFORD, CALIF., 1969, (AD-691788)

HAYESPJ71 HAYES, P. J.
A LOGIC OF ACTIONS.
= IN: MELTZER, B. AND D. MICHIE (EDS.), MACHINE INTELLIGENCE
6, EDINBURGH U. PRESS, 1971, 495-520.

HENKIL-50 HENKIN, L.
COMPLETENESS IN THE THEORY OF TYPES, =
J. ASSOC. FOR SYMBOLIC LOGIC, 1950.

HENSCLJ68 HENSCHEN, L. J.
SOME NEW RESULTS ON RESOLUTION IN AUTOMATED THEOREM PROVING.
= REPORT NO. 261, MA THESIS, DEPT. COMPUTER SCIENCE, UNIV.
OF ILL., MAY 1968.

HENSCLJ69 HENSCHEN, L. J.
RESOLUTION, MERGING, SET OF SUPPORT AND TAUTOLOGIES.
= FILE NO. 817, DEPT. OF COMPUTER SCIENCE, UNIV. OF ILL.,
DEC. 16, 1969.

HERBRJ-67 HERBRAND, J.
INVESTIGATIONS IN PROOF THEORY.
= IN: VAN HEIJENOORT, J. FROM FREGE TO GODEL: A SOURCE BOOK
IN MATHEMATICAL LOGIC, HARVARD UNIV. PRESS, 1967, 525-581.

HEWITC-69 HEWITT, C.
PLANNER: A LANGUAGE FOR PROVING THEOREMS IN ROBOTS.
= IN: WALKER AND NORTON (EDS.), PROC. INT'L. JOINT CONF. ON
A. I., WASHINGTON, D. C. (MAY 1969), 295-301.

HEWIT-C71 HEWITT, C.
MATCHLESS A PATTERN DIRECTED LANGUAGE FOR THE THEOREM

- PROVING FORMALISM PLANNER. =
PROC. INT'L. JOINT CONF. ON A. I., LONDON, (SEPTEMBER 1971).
- HEWIT-C71A HEWITT, C.
PROCEDURAL EMBEDDING IN PLANNER. =
PROC. INT'L. JOINT CONF. ON A. I., LONDON, (SEPTEMBER 1971).
- HINTIJ-65 HINTIKKA, J.
TOWARDS A THEORY OF INDUCTIVE GENERALIZATION.
=IN: PROC. 1964 INT'L. CONGRESS FOR LOGIC, METHODOLOGY, AND
PHILOSOPHY OF SCIENCE, BAR-HILLEL, Y., (ED.), AMSTERDAM, 1965
- HINTKJ-66 HINTIKKA, J., AND HILPINEN, R.
KNOWLEDGE, ACCEPTANCE AND INDUCTIVE LOGIC.
=IN: ASPECTS OF INDUCTIVE LOGIC, HINTIKKA, J., AND P. SUPPES
(EDS), NORTH-HOLLAND PUBL. CO., AMSTERDAM, 1966, 1-20.
- MODESL-71 MODES, L.
SOLVING PROBLEMS BY FORMULA MANIPULATION IN LOGIC AND
LINEAR INEQUALITIES. =
PROC. INT'L. JOINT CONF. ON A. I., LONDON, (SEPTEMBER 1971).
- HUNT-E865 HUNT, E. H., J. MARIN, AND P.J. STONE.
EXPERIMENTS IN INDUCTION. =
ACADEMIC PRESS, NEW YORK, 1966.
- KAHR-AS62 KAHR, A. S., E. F. MOORE, AND H. WANG.
ENTSCHEIDUNGS-PROBLEM REDUCED TO THE AEA CASE. =
PROC. NATIONAL ACADEMY SCI, 48(1962), 365-377.
- KALLIB-65 KALLICK, H.
THEOREM-PROVING BY COMPUTER. =
IIT RES. INST., CHICAGO, ILL., JAN. 1965. (AD 611 815)
- KALLIB-66 KALLICK, H.
THEOREM-PROVING BY COMPUTER. =
IIT RES. INST., CHICAGO, ILL., APRIL 1966. (AD 628 319)
- KALLIB-68 KALLICK, H.
PROOF PROCEDURES AND DECISION PROCEDURES BASED ON THE
RESOLUTION METHOD. =
PH.D. NORTHWESTERN UNIV., AUG. 1968.
- KALLIB-68A KALLICK, H.
A DECISION PROCEDURE BASED ON THE RESOLUTION METHOD. =
PROC. IFIP CONGRESS, 1968.
- KANGES-57 KANGER, S.
A NOTE ON QUANTIFICATION AND MODALITIES. =
THEORIA 23(1957), 133-134.
- KANGES-63 KANGER, S.
A SIMPLIFIED PROOF METHOD FOR ELEMENTARY LOGIC.
= IN: BHAFORT, P., AND D. HIRSCHBERG (EDS.), COMPUTER
PROGRAMMING AND FORMAL SYSTEMS, AMSTERDAM, 1963, 87-94.
- KEMENJG53 KEMENY, J. G.

THE USE OF SIMPLICITY IN INDUCTION. =
PHIL. REVIEW 62, (1953), 391-408.

- KIEBUR-69 KIEBURTZ, R., AND D. LUCKHAM.
COMPATIBILITY OF REFINEMENTS OF THE RESOLUTION PRINCIPLE. =
A. I. GROUP, STANFORD UNIV., STANFORD, CALIF., IN PRESS.
- KING-J-69 KING, J.
A PROGRAM VERIFIER. =
PH.D. THESIS, CARNEGIE-MELLON U., PITTSBURGH, PA., 1969.
- KING-J-70 KING, J. AND R. W. FLOYD.
AN INTERPRETATION ORIENTED THEOREM PROVER OVER INTEGERS.
= IN: SECOND ANNUAL ACM SYMPOSIUM ON THEORY OF COMPUTING,
NORTHAMPTON, MASS., (MAY 1970), 169-179.
- KLINGRE69 KLING, R. E.
THEOREM PROVING BY ANALOGY WITH APPLICATIONS TO
RESOLUTION LOGIC.
= PH.D THESIS, STANFORD U., STANFORD CALIF.,
(IN PREPARATION).
- KLINGRE71 KLING, R. E.
A PARADIGM FOR REASONING BY ANALOGY. =
PROC. INT'L. JOINT CONF. ON A. I., LONDON, (SEPTEMBER 1971).
- KOWALR-68 KOWALSKI, R.
THE CASE FOR USING EQUALITY AXIOMS IN AUTOMATIC
DEMONSTRATION.
= PAPER PRESENTED AT SYMPOSIUM ON AUTOMATIC DEMONSTRATION,
PARIS, FRANCE, DECEMBER 1968.
- KOWALR-68A KOWALSKI, R.
AN EXPOSITION OF PARAMODULATION WITH REFINEMENTS. =
U. OF EDINBURGH, EDINBURGH, SCOTLAND, OCTOBER, 1968.
- KOWALR-69 KOWALSKI, R. AND P.J. HAYES.
SEMANTIC TREES IN AUTOMATIC THEOREM-PROVING.
= IN: MELTZER, B. AND U. MICHIE (EDS.), MACHINE
INTELLIGENCE 4, AM. ELSEVIER, N.Y., 1969, 87-101. (CR 18000)
- KOWALR-70 KOWALSKI, R.
SEARCH STRATEGIES FOR THEOREM-PROVING.
= IN: MELTZER, B., AND U. MICHIE (EDS.), MACHINE
INTELLIGENCE 5, AM. ELSEVIER, NEW YORK, N.Y., 1970, 181-200.
- KOWALR-70A KOWALSKI, R.
STUDIES IN THE COMPLETENESS AND EFFICIENCY OF
THEOREM-PROVING BY RESOLUTION. =
PH.D. THESIS, U. OF EDINBURGH, APRIL, 1970.
- KOWALR-70B KOWALSKI, R.
THE CASE FOR USING EQUALITY AXIOMS IN AUTOMATIC
DEMONSTRATION.
= SYMP. ON AUTOMATIC DEMONSTRATION, (LECTURE NOTES IN
MATHEMATICS, VOL. 125), SPRINGER-VERLAG, N.Y., 1970, 112-127.

KCWLAR-70C KOWALSKI, R., AND D. KUEHNER.
 LINEAR RESOLUTION WITH SELECTION FUNCTION.
 MEMO 34, METAMATHEMATICS UNIT, U. OF EDINBURGH,
 EDINBURGH, OCT., 1970.

KRIPKS-63 KRIPKE, S.
 SEMANTICAL CONSIDERATIONS ON MODAL LOGIC. =
 ACTA PHILOSOPHICA FENNICA 16(1963), 83-94.

KRIPKS-63A KRIPKE, S.
 SEMANTICAL ANALYSIS OF MODAL LOGIC I.
 = ZEITSCHRIFT FUR MATH. LOGIK UND GRUNDLAGEN DER MATHEMATIK
 9(1963), 67-96.

KUEHNDG71 KUEHNER, D. G.
 A NOTE ON THE RELATION BETWEEN RESOLUTION AND MASLOV'S
 INVERSE METHOD.
 = IN: MELTZER, H. AND D. MICHIE (EDS.), MACHINE INTELLIGENCE
 6, EDINBURGH U. PRESS, 1971, 73-76.

KUHNSJL71 KUHNS, J. L.
 QUANTIFICATION IN QUERY SYSTEMS.
 = IN: PINKER, J. AND ROSENFELD, S. (EDS.), PROC. OF SYMP.
 ON I. S. AND R., U. OF MD., APRIL, 1971, 81-93.

LANDIPJ64 LANDIN, P. J.
 THE MECHANICAL EVALUATION OF EXPRESSIONS. =
 COMP. J., VOL. 6, 1964, 308-320.

LEDERJ-67 LEDERBERG, J. AND E. A. FEIGENBAUM.
 MECHANIZATION OF INDUCTIVE INFERENCE IN ORGANIC CHEMISTRY.
 = A. I. MEMO NO. 54, STANFORD UNIV., PALO ALTO, CALIF.,
 ALG., 1967.

LEE--RC67 LEE, R. C. T.
 A COMPLETENESS THEOREM AND A COMPUTER PROGRAM FOR FINDING
 THEOREMS DERIVABLE FROM GIVEN AXIOMS. =
 PH.D DISS., U. OF CALIF., BERKELEY, CALIF., 1967.

LEE--RC70 LEE, R. C. T., AND C. L. CHANG.
 SOME PROPERTIES OF FUZZY LOGIC. =
 DIV. OF COMP. RES. AND TECH., N. I. H., BETHESDA, MD., 1970.

LEE--RC71 LEE, RICHARD C. T.
 FUZZY LOGIC AND THE RESOLUTION PRINCIPLE. =
 PROC. 2ND INT'L. JOINT CONF. ON A.I., LONDON, SEPT. 1971.

LOVELDW68 LOVELAND, D. W.
 MECHANICAL THEOREM-PROVING BY MODEL ELIMINATION. =
 J. ACM 15, 2 (APRIL 1968), 236-251. (CR 15,548)

LOVELDW68A LOVELAND, D. W.
 A LINEAR FORMAT FOR RESOLUTION.
 = IRIA SYMP. ON AUTOMATIC DEMONSTRATION,
 VERSAILLES, FRANCE, DECEMBER 1968.

LOVELDW69 LOVELAND, D. W.

THEOREM-PROVERS COMBINING MODEL ELIMINATION AND RESOLUTION.
= IN: MELTZER, R. AND D. MICHIE (EDS.), MACHINE
INTELLIGENCE 4, AM. ELSEVIER, N.Y., 1969, 73-86. (CR 18,821)

- LCVELDW69A LOVELAND, D.W.
A SIMPLIFIED FORMAT FOR THE MODEL ELIMINATION
THEOREM-PROVING PROCEDURE. =
J. ACM 16, 3(JULY 1969), 349-363. (CR 19,586)
- LCVELDW71 LOVELAND, D. W.
SOME LINEAR HERBRAND PROOF PROCEDURES: AN ANALYSIS. =
CARNEGIE-MELLON UNIV., PITTSBURGH, PA., 1971.
- LOWENL-67 LOWENHEIM, L.
ON POSSIBILITIES IN THE CALCULUS OF RELATIVES.
= IN: VAN HEIJENOORT, J. FROM FREGE TO GODEL: A SOURCE
BOOK IN MATHEMATICAL LOGIC, HARVARD, 1967, 228-251.
- LUCKHD-67 LUCKHAM, D.
THE RESOLUTION PRINCIPLE IN THEOREM-PROVING.
= IN: COLLINS, N.L., AND D. MICHIE (EDS.), MACHINE
INTELLIGENCE 1, AM. ELSEVIER, NEW YORK, N.Y., 1967, 47-61.
- LUCKHD-68 LUCKHAM, D.
SOME TREE-PARING STRATEGIES IN THEOREM PROVING.
= IN: MICHIE, D. (ED.), MACHINE INTELLIGENCE 3, AMERICAN
ELSEVIER, NEW YORK, 1968, 95-112.
- LUCKHD-68A LUCKHAM, D.
THE ANCESTRY FILTER METHOD IN AUTOMATIC DEMONSTRATION.
= A. I. PROJECT MEMO, STANFORD UNIV., STANFORD, CALIF.,
DECEMBER 1968.
- LUCKHD-69 LUCKHAM, D.
REFINEMENT THEOREMS IN RESOLUTION THEORY.
= A. I. MEMO 81, A. I. PROJECT, STANFORD UNIV.,
STANFORD, CALIF., 1969.
- LUCKHD-70 LUCKHAM, D., AND N. J. NILSSON.
EXTRACTING INFORMATION FROM RESOLUTION PROOF TREES.
= TECH. NOTE 32, A. I. GROUP, STANFORD RESEARCH INST.,
MENLO PARK, CALIF., 1969.
- LUCKHD-70A LUCKHAM, D.
REFINEMENTS IN RESOLUTION THEORY.
= PROC. I.R.I.A. SYMPOSIUM ON AUTOMATIC DEMONSTRATION,
SPRINGER VERLAG, 1970, 163-190.
- MANNAZ-68 MANNA, Z.
THE CORRECTNESS OF NON-DETERMINISTIC PROGRAMS.
= AI MEMO-95, DEPT. OF COMP. SCI., STANFORD UNIV.,
STANFORD, CALIF., AUGUST 1968.
- MANNAZ-69 MANNA, Z.
PROPERTIES OF PROGRAMS AND THE FIRST-ORDER
PREDICATE CALCULUS. =
J. ACM 16, 2(APRIL 1969), 244-255. (CR 19,289)

MANNAZ-69A MANNA, Z.
THE CORRECTNESS OF PROGRAMS.
= J. OF COMPUTER AND SYSTEM SCIENCES, VOL. 3, NO. 2,
1969, 119-127.

MANNAZ-70 MANNA, Z. AND R. J. WALDINGER.
TOWARDS AUTOMATIC PROGRAM SYNTHESIS.
= STANFORD ARTIFICIAL INTELLIGENCE PROJECT MEMO AIM-127,
STANFORD U., MENLO PARK, CALIF., (JULY 1970).

MANNAZ-70A MANNA, Z. AND J. MCCARTHY.
PROPERTIES OF PROGRAMS AND PARTIAL FUNCTION LOGIC.
= IN: MELTZER B. AND MICHIE D. (EDS.), MACHINE
INTELLIGENCE 5, EDINBURGH U. PRESS, 1970, 27-37.

MANNAZ-70B MANNA, Z. AND A. PNUELI.
FORMALIZATION OF PROPERTIES OF FUNCTIONAL PROGRAMS. =
J. ACM 17, 2 (APRIL 1970), 555-569.

MASLOJ64 MASLOV, S. JU.
AN INVERSE METHOD OF ESTABLISHING DEDUCIBILITY IN
CLASSICAL PREDICATE CALCULUS. =
IN: DOKL. AKAD. NAUK SSSR, 159, 17-20, 1964.

MASLOJ66 MASLOV, S. JU.
APPLICATION OF THE INVERSE METHOD OF ESTABLISHING DEDUCIBILITY
TO THE THEORY OF DECIDABLE FRAGMENTS OF CLASSICAL
PREDICATE CALCULUS. =
IN: DOKL. AKAD. NAUK SSSR, 171, 1966, 1282-5 (TRANSLATED).

MASLOJ67 MASLOV, S. JU.
AN INVERSE METHOD OF ESTABLISHING DEDUCIBILITY FOR
NONPRENEX FORMULAS OF THE PREDICATE CALCULUS. =
IN: DOKL. AKAD. NAUK SSSR, 172, 22-5, 1967 (TRANSLATED).

MASLOJ68 MASLOV, S. JU.
THE INVERSE METHOD OF ESTABLISHING DEDUCIBILITY FOR LOGICAL
CALCULI. =
TRUDY MATEMAT. INST. AN SSSR, 98, (1968), 26-87.

MASLOJ69 MASLOV, S. JU.
A CONNECTION BETWEEN TACTICS OF THE RESOLUTION AND
INVERSE METHODS. =
ZAPISKI NAUCHNYH SEMINAROV LOMI, 16, (1969), 137-146.

MASLOJ71 MASLOV, S. JU.
PROOF-SEARCH STRATEGIES FOR METHODS OF THE RESOLUTION TYPE.
= IN: MELTZER B. AND D. MICHIE (EDS.), MACHINE INTELLIGENCE
6, EDINBURGH U. PRESS, 1971, 77-90.

MCCARJ-63 MCCARTHY, J.
PREDICATE CALCULUS WITH 'UNDEFINED' AS A TRUTH-VALUE.
= MEMO 1, STANFORD A. I. PROJECT, STANFORD UNIV.,
STANFORD CALIF., 1963.

MCCARJ-64 MCCARTHY, J.
A TOUGH NUT FOR PROOF PROCEDURES.

= A. I. MEMO, STANFORD A. I. PROJECT, STANFORD UNIV.,
STANFORD, CALIF., 1964.

- MCCARJ-68 MCCARTHY, J.
PROGRAMS WITH COMMON SENSE.
= IN: MINSKY, M. (ED.). SEMANTIC INFORMATION PROCESSING.
MIT PRESS, CAMBRIDGE, MASS., 1968, 403-418. (CR 19,225)
- MCCARJ-69 MCCARTHY, J., AND P. HAYES.
SOME PHILOSOPHICAL PROBLEMS FROM THE STANDPOINT OF
ARTIFICIAL INTELLIGENCE.
= MEMO 73, STANFORD A. I. PROJECT, STANFORD UNIV.,
STANFORD, CALIF., 1969.
- MELTZB-65 MELTZER, B.
THEOREM PROVING FOR COMPUTERS.
= MEMO 24, METAMATHEMATICS UNIT, U. OF EDINBURGH,
EDINBURGH, 1965.
- MELTZB-66 MELTZER, B.
THEOREM-PROVING FOR COMPUTERS: SOME RESULTS ON RESOLUTION
AND RENAMING. =
COMPUTER J. 8, (JAN. 1966), 341-343.
- MELTZB-66A MELTZER, B.
SOME RECENT DEVELOPMENTS IN COMPLETE STRATEGIES FOR
THEOREM-PROVING BY COMPUTER.
= MEMO 16, METAMATHEMATICS UNIT, U. OF EDINBURGH,
EDINBURGH, 1966.
- MELTZB-67 MELTZER, B.
LOGIC AND THE FORMALIZATION OF MATHEMATICS. =
SCIENCE PROGRESS, VOL. 55, OXFORD, 1967, PP. 583-595.
- MELTZB-67A MELTZER, B.
MATHEMATICS, LOGIC AND UNDECIDABILITY.
= MEMO 9, METAMATHEMATICS UNIT, U. OF EDINBURGH,
EDINBURGH, 1967.
- MELTZB-68 MELTZER, P.
SOME NOTES ON RESOLUTION STRATEGIES.
= IN: MICHIE, D. (ED.). MACHINE INTELLIGENCE 3,
AMERICAN ELSEVIER, NEW YORK, N.Y., 1968, 71-75.
- MELTZB-68A MELTZER, P.
A NEW LOOK AT MATHEMATICS AND ITS MECHANIZATION.
= IN: MICHIE, D. (ED.). MACHINE INTELLIGENCE 3,
AMERICAN ELSEVIER, NEW YORK, 1968, 63-70.
- MELTZB-69 MELTZER, P.
THE USE OF SYMBOLIC LOGIC IN PROVING MATHEMATICAL THEOREMS
BY MEANS OF A DIGITAL COMPUTER.
= FOUNDATIONS OF MATHEMATICS, J. J. RULLOFF, T. C. HOLYOKE,
S. W. HAHN, (EDS.), SPRINGER-VERLAG, NEW YORK, 1969, 39-45.
- MELTZB-70 MELTZER, P.
POWER AMPLIFICATION FOR THEOREM-PROVERS.

- = IN: MELTZER, B. AND D. MICHIE (EDS.), MACHINE INTELLIGENCE
5, AM, ELSEVIER, NEW YORK, N.Y., 1970, 165-176.
- MELTZER-71 MELTZER, B.
PROLEGOMENA TO A THEORY OF EFFICIENCY OF PROOF PROCEDURES.
= IN: FINDLER AND MELTZER (EDS.), ARTIFICIAL INTELLIGENCE
AND HEURISTIC PROGRAMMING, EDINBURGH UNIV. PRESS, 1971.
- MILLSR-68 MILLSTEIN, R.
THE LOGIC THEORIST IN LISP.
= INT'L. J. COMPUTER MATH. 2, APRIL 1968, PP. 111-122.
- MINKEJ-70 MINKER, J., AND J. SABLE.
RELATIONAL DATA SYSTEM STUDY.
= FINAL REPORT AUER-1776-TR-1, AUERBACH CORP., PHILADELPHIA,
PA., JULY 1970, (ALSO RADC-TR-70-180). (AD 720-263)
- MORRIJB69 MORRIS, J. B.
E-RESOLUTION: EXTENSION OF RESOLUTION TO INCLUDE THE
EQUALITY RELATION
= IN: WALKER AND NORTON (EDS.), PROC. INT'L. JOINT CONF. ON
A. I., WASHINGTON, D. C. (MAY 1969), 287-294.
- NERODA-62 NERODE, A., R. M. SMULLYAN, AND E. W. BETH.
THE FOUNDATIONS OF MATHEMATICS: A STUDY IN THE
PHILOSOPHY OF SCIENCE. =
J. SYMBOLIC LOGIC 27 (1962), 73-75.
- NEWELA-56 NEWELL, A., J. C. SHAW, AND H. A. SIMON.
THE LOGIC THEORY MACHINE. =
IRE TRANSACTIONS ON INFO THEORY, IT-2(3), 1956, 61-79.
- NEWELA-63 NEWELL, A., J. SHAW, AND H. SIMON.
EMPIRICAL EXPLORATIONS OF THE LOGIC THEORY MACHINE.
= IN: FEIGENBAUM, F., AND J. FELDMAN (EDS.), COMPUTERS
AND THOUGHT, MCGRAW-HILL, N.Y., 1963, 109-133.
- NEWELA-65 NEWELL, A. AND G. ERNST.
THE SEARCH FOR GENERALITY.
= PROC. IFIP CONGRESS 1965, VOL. 1, SPARTAN BOOKS,
WASHINGTON, D.C., 1965, 17-24.
- NILSSNJ69 NILSSON, N. J.
PREDICATE CALCULUS THEOREM PROVING. =
STANFORD RESEARCH INST., MENLO PARK, CALIF., 1969.
- NILSSNJ69A NILSSON, N. J.
A MOBILE AUTOMATON: AN APPLICATION OF ARTIFICIAL
INTELLIGENCE TECHNIQUES.
= IN: WALKER AND NORTON (EDS.), PROC. INT'L. JOINT CONF. ON
A. I., WASHINGTON, D. C. (MAY 1969), 509-516.
- NILSSNJ71 NILSSON, N. J.
PROBLEM-SOLVING METHODS IN ARTIFICIAL INTELLIGENCE. =
MCGRAW-HILL BOOK CO., NEW YORK, 1971.
- NORTOLM69 NORTON, L. M.

ADEPT - A HEURISTIC PROGRAM FOR PROVING THEOREMS OF
GROUP THEORY. =
PH.D. THESIS, MIT, CAMBRIDGE, MASS., 1969. (CR 18,636)

- NORTOLM71 NORTON, LEWIS M.
EXPERIMENTS WITH A HEURISTIC THEOREM-PROVING PROGRAM FOR
PREDICATE CALCULUS WITH EQUALITY.
=HEURISTICS LAB., DIV. OF COMP. RES. AND TECH.,
N. I. H., BETHESDA, MD., 1971.
- OREVKVP65 OREVKOV V. P.
A DECIDABLE FRAGMENT OF CLASSICAL PREDICATE CALCULUS
WITH FUNCTIONAL SYMBOLS.=
II, SYMP. PO KIBERNET. THESES, P. 176 TBILISI, 1965.
- OREVKVP68 OREVKOV, V. P.
TWO UNDECIDABLE FRAGMENTS OF CLASSICAL PREDICATE CALCULUS.=
ZAPISKI NAUCHNYH SEMINAROV LOMI, 8, (1968), 202-210.
- OWEN-RH68 OWEN, R. M.
SOME EXPERIMENTS WITH A COMPUTER REALIZATION OF A
THEOREM-PROVING METHOD.
= DEPT. OF MACHINE INTELLIGENCE AND PERCEPTION, U. OF
EDINBURGH, RES. MEM. NO. MIP-R-43, (NOV. 1968).
- PARK-D-70 PARK, D.
FIXPOINT INDUCTION AND PROOFS OF PROGRAM PROPERTIES.
= IN: MELTZER, B. AND MICHIE, D. (EDS.), MACHINE
INTELLIGENCE 5, EDINBURGH U. PRESS, 1970, 59-78.
- PITRAJ-65 PITRAT, J.
REALIZATION OF A PROGRAM WHICH CHOOSES THE THEOREMS
IT PROVES.
= PROC. IFIP CONGRESS, SPARTAN BOOKS, WASHINGTON, D. C.,
1965, 324-325.
- PITRAJ-66 PITRAT, J.
REALISATION DE PROGRAMMES DE DEMONSTRATION DE THEOREMS
UTILISANT DES METHODES HEURISTIQUES. =
PH.D. THESIS, UNIV. OF PARIS, 1966.
- PLOTKGD70 PLOTKIN, G. D.
LATTICE THEORETIC PROPERTIES OF SURSUMPTION.
= MEMO. MIP-R-77, DEPT. OF MACHINE INTELLIGENCE AND
PERCEPTION, UNIV. OF EDINBURGH, JUNE, 1970.
- PLOTKGD70A PLOTKIN, G. D.
A NOTE ON INDUCTIVE GENERALISATION.
= IN: MELTZER, B. AND D. MICHIE (EDS.), MACHINE
INTELLIGENCE 5, EDINBURGH UNIV. PRESS, 1970, 153-163.
- PLOTKGD71 PLOTKIN, G.D.
A FURTHER NOTE ON INDUCTIVE GENERALIZATION.
=IN: MELTZER, B. AND D. MICHIE (EDS.), MACHINE INTELLIGENCE
6, EDINBURGH U. PRESS, 1971, 101-126.
- PCPPLRJ67 POPPLESTONE, R.J.

BETH-TREE METHODS IN AUTOMATIC THEOREM-PROVING.
= IN: MICHIE, D. (ED.). MACHINE INTELLIGENCE 1,
AMERICAN ELSEVIER, NEW YORK, N.Y., 1967, 31-46.

- POPPLRJ68 POPPLESTONE, R. J.
SOME COMMENTS ON R. M. BURSTALL'S MEMORANDUM MIP-R-45.
= DEPT. OF MACHINE INTELLIGENCE AND PERCEPTION, U. OF
EDINBURGH, RES. MEM. NO. MIP-R-46, (DEC. 1968).
- POPPLRJ70 POPPLESTONE, R. J.
EXPERIMENTS WITH AUTOMATIC INDUCTION.
= IN: MELTZER, B. AND D. MICHIE (EDS.). MACHINE
INTELLIGENCE 5, AM. ELSEVIER, N.Y., 1970, 203-206.
- PRAWID-60 PRAWITZ, D., H. PRAWITZ, AND N. VOGHERA.
A MECHANICAL PROOF PROCEDURE AND ITS REALIZATION IN AN
ELECTRONIC COMPUTER. =
J. ACM 7, 2 (APRIL 1960), 102-128
- PRAWID-60A PRAWITZ, D.
AN IMPROVED PROOF PROCEDURE. =
THEORIA 26 (1960), 102-139.
- PRAWID-67 PRAWITZ, D.
COMPLETENESS AND HAUPTSATZ FOR SECOND ORDER LOGIC. =
THEORIA 33 (1967), 246-254.
- PRAWID-68 PRAWITZ, D.
HAUPTSATZ FOR HIGHER ORDER LOGIC. =
J. OF SYMBOLIC LOGIC, VOL. 33, 1968, 452-457.
- PRAWID-69 PRAWITZ, D.
ADVANCES AND PROBLEMS IN MECHANICAL PROOF PROCEDURE.
= IN: MELTZER, B. AND D. MICHIE (EDS.). MACHINE
INTELLIGENCE 4, AM. ELSEVIER, N.Y., 1969, 59-70.
- QUINEWV55 QUINE, W.V.O.
A PROOF PROCEDURE FOR QUANTIFICATION THEORY. =
J. SYMB. LOGIC 20 (1955), 141-149.
- QUINLJR68 QUINLAN, J.R., AND E.B. HUNT.
A FORMAL DEDUCTIVE PROBLEM-SOLVING SYSTEM. =
J. ACM 15, 4 (OCT. 1968), 625-646.
- RAPHAB-64 RAPHAEL, H.
A COMPUTER PROGRAM WHICH 'UNDERSTANDS.'
= AFIPS CONF. PROC., VOL. 26, FJCC, 1964, SPARTAN PRESS,
BALTIMORE, MARYLAND, 1964, 577-589.
- RAPHAB-64A RAPHAEL, H.
SIR: A COMPUTER PROGRAM FOR SEMANTIC INFORMATION RETRIEVAL.
= PH.D. THESIS, MATHEMATICS DEPT., MIT,
CAMBRIDGE, MASS., 1964.
- RAPHAB-68 RAPHAEL, H.
PROGRAMMING A ROBOT.
= PROC. FOURTH IFIP CONGRESS, NO. HOLLAND PUBL. CO.,

AMSTERDAM, 1968, H135-139.

- RAPHAB-69 RAPHAEL, B.
SOME RESULTS ABOUT PROOF BY RESOLUTION. =
SIGART NEWSLETTER, NO. 14 (FEB. 1969), 22-25.
- RAPHAB-70 RAPHAEL, B.
THE FRAME PROBLEM IN PROBLEM-SOLVING SYSTEMS.
= TECH. NOTE 33, A. I. GROUP, STANFORD RESEARCH INST.,
MENLO PARK, CALIF., JUNE 1970.
- RAPHAB-71 RAPHAEL, B.
ROBOT SYSTEMS AND RELATED PROBLEMS.
= IN: FINLUR AND MELTZER (EDS.). ARTIFICIAL INTELLIGENCE
AND HEURISTIC PROGRAMMING, EDINBURGH UNIV. PRESS, 1971.
- REITER-70 REITER, R.
THE PREDICATE ELIMINATION STRATEGY IN THEOREM-PROVING.
= IN: SECOND ANNUAL ACM SYMPOSIUM ON THEORY OF COMPUTING,
NORTHAMPTON, MASS., MAY 1970, 180-183.
- REITER-70A REITER, R.
TWO RESULTS ON ORDERING FOR RESOLUTION WITH MERGING AND
LINEAR FORMAT.
= T. R., DEPT. OF COMPUTER SCIENCE, UNIV. OF BRITISH
COLUMBIA, VANCOUVER, B. C., CANADA, JULY, 1970.
- REYNOJC68 REYNOLDS, J. C.
A GENERALIZED RESOLUTION PRINCIPLE BASED UPON CONTEXT-FREE
GRAMMARS. =
PROC. IFIP CONGRESS, 1968, APPLICATIONS 3, BOOKLET H, 10-14.
- REYNOJC70 REYNOLDS, J. C.
TRANSFORMATIONAL SYSTEMS AND THE ALGEBRAIC STRUCTURE OF
ATOMIC FORMULAS.
= IN: MELTZER, B. AND D. MICHIE (EDS.). MACHINE
INTELLIGENCE 5, EDINBURGH UNIV. PRESS, 1970, 135-152.
- ROBINA-57 ROBINSON, A.
PROVING THEOREMS, AS DONE BY MAN, MACHINE AND LOGICIAN.
= PROCEEDINGS OF 1957 SUMMER SCHOOL IN LOGIC,
CORNELL, ITHACA, N.Y., 1957.
- RCBINGA64 ROBINSON, G. A., L. T. WOS, AND D. F. CARSON.
SOME THEOREM-PROVING STRATEGIES AND THEIR IMPLEMENTATIONS. =
AND TECH. MEMO, NO. 72, ARGONNE NAT. LABORATORY, 1964.
- RCBINGA69 ROBINSON, G. AND L. WOS.
PARAMODULATION AND THEOREM-PROVING IN FIRST-ORDER THEORIES
WITH EQUALITY.
= IN: MELTZER, B. AND D. MICHIE (EDS.). MACHINE
INTELLIGENCE 4, AM. ELSEVIER, N.Y., 1969, 135-150. (CR1A223)
- RCBINGA69A ROBINSON, G. A., AND L. WOS.
COMPLETENESS OF PARAMODULATION.
= ASS. FOR SYMBOLIC LOGIC, SPRING 1968 MEETING, ABSTRACT IN:
J. SYMBOLIC LOGIC 34 (1969), 159-160.

- RCBINJA61 ROBINSON, J.A.
A GENERAL THEOREM-PROVING PROGRAM FOR THE IBM 704. =
ARGONNE NAT. LAB. REPT. 6447, NOVEMBER 1961.
- RCBINJA63 ROBINSON, J.A.
A MACHINE-ORIENTED FIRST-ORDER LOGIC. =
J. SYMB. LOGIC 28, (1963), P302. (ABSTRACT).
- RCBINJA63A ROBINSON, J.A.
THEOREM-PROVING ON THE COMPUTER. =
J. ACM 10, 2 (APRIL 1963), 163-174.
- ROBINJA64 ROBINSON, J. A.
ON AUTOMATIC DEDUCTION. =
RICE UNIV. STUDIES 50 (1964), 69-89.
- ROBINJA65 ROBINSON, J.A.
A MACHINE ORIENTED LOGIC BASED ON THE RESOLUTION PRINCIPLE. =
J. ACM 12, 1 (JAN. 1965), 23-41.
- RCBINJA65A ROBINSON, J.A.
AUTOMATIC DEDUCTION WITH HYPER-RESOLUTION. =
INT. J. COMPUT. MATH. 1 (1965), 227-234.
- ROBINJA67 ROBINSON, J.A.
A REVIEW OF AUTOMATIC THEOREM PROVING.
= PROC. OF SYMPOSIA IN APPLIED MATH., VOL XIX,
AM. MATH. SOC., PROVIDENCE, R.I., 1967, 1-18.
- RCBINJA67B ROBINSON, J. A.
HEURISTIC AND COMPLETE PROCESSES IN THE MECHANIZATION
OF THEOREM-PROVING.
= SYSTEMS AND COMPUTER SCIENCE, U. OF TORONTO PRESS
(1967) 116-124.
- ROBINJA68 ROBINSON, J.A.
THE GENERALIZED RESOLUTION PRINCIPLE.
= IN: MICHIE, D. (ED.). MACHINE INTELLIGENCE 3,
AM. ELSEVIER, NEW YORK, N.Y., 1968, 77-93.
- ROBINJA68A ROBINSON, J. A.
NEW DIRECTIONS IN MECHANICAL THEOREM PROVING. =
PROC. IFIP CONGRESS, 1968, 206-210.
- RCBINJA69 ROBINSON, J.A.
MECHANIZING HIGHER-ORDER LOGIC.
= IN: MELTZER, B. AND D. MICHIE (EDS.). MACHINE
INTELLIGENCE 4, AM. ELSEVIER, N.Y., 1969, 151-170. (CR18014)
- ROBINJA70 ROBINSON, J.A.
A NOTE ON MECHANIZING HIGHER ORDER LOGIC.
= IN: MELTZER, B., AND D. MICHIE (EDS.), MACHINE
INTELLIGENCE 5, AM. ELSEVIER, NEW YORK, N.Y., 1970, 123-133.
- RCBINJA70A ROBINSON, J. A.
AN OVERVIEW OF MECHANICAL THEOREM PROVING.
= IN: R. BANERJI, AND M. MESAROVIC (EDS.), THEORETICAL

APPROACHES TO NON-NUMERICAL PROBLEM SOLVING N.Y. 1970 2-20.

- ROBINJA71 ROBINSON, J. A.
COMPUTATIONAL LOGIC: THE UNIFICATION COMPUTATION.
=IN: MELTZER, B. AND D. MICHIE (EDS.), MACHINE INTELLIGENCE
6, EDINBURGH U. PRESS, 1971, 63-72.
- ROBINJA71A ROBINSON, J. A.
BUILDING DEDUCTION MACHINES.
=IN: FINDLER AND MELTZER (EDS.), ARTIFICIAL INTELLIGENCE
AND HEURISTIC PROGRAMMING, EDINBURGH UNIV. PRESS, 1971.
- ROSSEJB52 ROSSER, J. B., AND A. R. TURQUETTE.
MANY-VALUED LOGIC.=
NORTH-HOLLAND, AMSTERDAM, 1952.
- SANDEEJ69 SANDEWALL, E. J.
A PROPERTY-LIST REPRESENTATION FOR CERTAIN FORMULAS IN
PREDICATE CALCULUS.
= REPORT NR 18, UPPSALA U. COMPUTER SCIENCES DEPT.,
UPPSALA, SWEDEN (JAN. 1969).
- SCHONM-67 SCHONFINKEL, N.
ON THE BUILDING BLOCKS OF MATHEMATICAL LOGIC.
= IN: VAN HEIJENCORT, J. FROM FREGE TO GODEL: A SOURCE
BOOK IN MATHEMATICAL LOGIC, HARVARD, 1967, 355-366.
- SIBEREE69 SIBERT, E.E.,JR.
A MACHINE-ORIENTED LOGIC INCORPORATING THE EQUALITY
RELATION.
= IN: MELTZER, B. AND D. MICHIE (EDS.), MACHINE
INTELLIGENCE 4, AM. ELSEVIER, N.Y., 1969, 103-133. (CR10054)
- SIKLOL-71 SIKLOSSY L., AND V. MARINOV.
HEURISTIC SEARCH VS. EXHAUSTIVE SEARCH.=
PROC. INT'L. JOINT CONF. ON A. I., LONDON, (SEPTEMBER 1971).
- SKOLEMT-67 SKOLEM, T.
ON MATHEMATICAL LOGIC.
= IN: VAN HEIJENCORT, J. FROM FREGE TO GODEL: A SOURCE
BOOK IN MATHEMATICAL LOGIC, HARVARD, 1967, 508-524.
- SKOLET-67 SKOLEM, T.
LOGICO-COMBINATIONAL INVESTIGATIONS IN THE SATISFIABILITY
OR PROVABILITY OF MATHEMATICAL PROPOSITIONS: A SIMPLIFIED
PROOF OF A THEOREM BY L. LOWENHEIM, GENERALIZ. THEOREM. =
IN: VAN HEIJENCORT, J., FROM FREGE TO GODEL, 1967, 252-263.
- SLAGLJR65 SLAGLE, J.R.
EXPERIMENTS WITH A DEDUCTIVE QUESTION-ANSWERING PROGRAM. =
COMM. ACM 8, 12(DEC. 1965), 792-798.
- SLAGLJR65A SLAGLE, J.R.
A PROPOSED PREFERENCE STRATEGY USING SUFFICIENCY-RESOLUTION
FOR ANSWERING QUESTIONS.
= UCRL-14361, LAWRENCE RADIATION LABORATORIES,
BERKELEY, CALIF., 1965.

- SLAGLJR65B SLAGLE, J. R.
A MULTIPURPOSE, THEOREM PROVING, HEURISTIC PROGRAM
THAT LEARNS.
= PROC. IFIP CONGRESS, SPARTAN BOOKS, WASHINGTON, D. C.,
1965, 323-324.
- SLAGLJR67 SLAGLE, J.R.
AUTOMATIC THEOREM PROVING WITH RENAMABLE AND SEMANTIC
RESOLUTION. =
J. ACM 14, 4(OCT. 1967), 647-697.
- SLAGLJR68 SLAGLE, J. R. AND P. BURSKEY.
EXPERIMENTS WITH A MULTIPURPOSE, THEOREM-PROVING
HEURISTIC PROGRAM. =
J. ACM 15, 1(JAN. 1968), 85-99.
- SLAGLJR69 SLAGLE, J. R., C. L. CHANG, AND R. C. T. LEE.
COMPLETENESS THEOREMS FOR SEMANTIC RESOLUTION IN
CONSEQUENCE-FINDING.
= IN: WALKER AND NORTON (EDS.). PROC. INT'L. JOINT CONF. ON
A. I., WASHINGTON, D. C. (MAY 1969), 281-286.
- SLAGLJR70 SLAGLE, J.R.
INTERPRETATION THEOREMS FOR RESOLUTION IN LOWER PREDICATE
CALCULUS. =
J. ACM 17, 3(JULY 1970), 535-542.
- SLAGLJR71A SLAGLE, J. R. AND D. A. KONIGER.
FINDING RESOLUTION PROOFS AND USING DUPLICATE GOALS
IN AND/OR TREES. =
TO APPEAR IN INFORMATION SCIENCE.
- SLAGLJR71B SLAGLE, J. R. AND C. FARRELL.
EXPERIMENTS IN AUTOMATIC LEARNING FOR A MULTIPURPOSE
HEURISTIC PROGRAM. =
COMM. ACM 14, 12(FEB. 1971), 91-99.
- SLAGLJR71C SLAGLE, J. R.
ARTIFICIAL INTELLIGENCE: THE HEURISTIC PROGRAMMING
APPROACH. =
MCGRAW-HILL BOOK CO., NEW YORK, 1971.
- SMULLRM63 SMULLYAN, R. W.
A UNIFYING PRINCIPLE IN QUANTIFICATION THEORY.
= PROC. OF THE NATIONAL ACADEMY OF SCIENCES, VOL. 49,
1963, 828-832.
- TAKAHM-67 TAKAHASHI, MOTO-O.
A PROOF OF CUT-ELIMINATION IN SIMPLE TYPE THEORY.
= TOUR. OF THE MATHEMATICAL SOCIETY OF JAPAN, VOL. 19, 1967,
399-410.
- TRAVILG64 TRAVIS, L.G.
EXPERIMENTS WITH A THEOREM UTILIZING PROGRAM.
= AFIPS CONF. PROC., VOL. 25, 1964 SJCC, SPARTAN BOOKS,
BALTIMORE, MD., 1964, 339-358.

VANDER6J71 VANDERBRUG, G.J., D.H. FISHMAN, AND J. MINKER.
OUTLINE, BIBLIOGRAPHY, AND KWIC INDEX ON MECHANICAL
THEOREM PROVING AND ITS APPLICATIONS.
= TR-159, COMPUTER SCIENCE CENTER, UNIV. OF MARYLAND,
COLLEGE PARK, MD., JUNE 1971.

VANHEJ-67 VAN HEIJENOORT, J.
FROM FREGE TO GODEL: A SOURCE BOOK IN MATHEMATICAL LOGIC. =
HARVARD UNIV. PRESS, 1967.

WALDIRJ69 WALDINGER, R.J.
CONSTRUCTING PROGRAMS AUTOMATICALLY USING THEOREM PROVING.
= PH.D. THESIS, AFOSR-69-2922TR, COMP. SCIENCE DEPT.,
CARNEGIE-MELLON UNIV., PITTSBURGH, PA., MAY 1969. (AD-697041).

WALDIRJ69A WALDINGER, R.J., AND R.C.T. LEE.
PROV: A STEP TOWARD AUTOMATIC PROGRAM WRITING.
= IN: WALKER AND NORTON (EDS.), PROC. INT'L. JOINT CONF. ON
A. I., WASHINGTON, D. C. (MAY 1969), 241-252.

WANG-H-57 WANG, H.
THE AXIOMATIZATION OF ARITHMETIC. =
J. SYMBOLIC LOGIC 22, 1957.

WANG-H-60 WANG, H.
TOWARDS MECHANICAL MATHEMATICS. =
IBM J. RES. DEVELOP. 4 (1960), 2-22.

WANG-H-60A WANG, H.
PROVING THEOREMS BY PATTERN RECOGNITION, I. =
COMP. ACM 3, (1960), 220-234.

WANG-H-61 WANG, H.
PROVING THEOREMS BY PATTERN RECOGNITION, II. =
BELL SYSTEM TECH. J. 40 (1961), 1-41.

WANG-H-62 WANG, H.
DOMINOES AND THE AEA CASE OF THE DECISION PROBLEM.
= SYMPOSIUM ON MATHEMATICAL THEORY OF MACHINES,
BROOKLYN POLYTECHNIC INSTITUTE, 1962, 23-55.

WANG-H-63 WANG, H.
THE MECHANIZATION OF MATHEMATICAL ARGUMENTS.
= IN: PROC. OF SYMPOSIA IN APPL. MATH., VOL. XV,
A. S. MATH. SOC., PROVIDENCE, R.I., 1963.

WANG-H-63A WANG, H.
MECHANICAL MATHEMATICS AND INFERENCE ANALYSIS.
= IN: PRAFFORT, P., AND D. HIRSCHBERG, COMPUTER
PROGRAMMING AND FORMAL SYSTEMS, 1963, NORTH HOLLAND, 1-20.

WANG-H-65 WANG, H.
FORMALIZATION AND AUTOMATIC THEOREM-PROVING. =
PROC. OF IFIP CONGRESS 1965, 1, 51-58

WANG-H-65A WANG, H.
GAMES, LOGIC, AND COMPUTERS. =

SCIENTIFIC AMERICAN, (NOV. 1965), 98-107.

- WANG-H-67 WANG, H.
REMARKS ON MACHINES, SETS, AND THE DECISION PROBLEM.
= IN: J. CROSSLEY AND M. DUMMETT, FORMAL SYSTEMS AND
RECURSIVE FUNCTIONS, NORTH-HOLLAND, 1967, 304-320.
- WOODMGM71 WOODMANSEE, G.H.
A DEFINITIONALLY EXTENDIBLE TYPE-LOGIC FOR MECHANICAL
THEOREM PROVING.
= TR-121, COMPUTER SCIENCE DEPT., UNIV OF WISCONSIN,
MADISON, WISC., MARCH 1971.
- WOS--LT64 WOS, L. T., G. A. ROBINSON, AND D. F. CARSON.
SOME THEOREM PROVING STRATEGIES AND THEIR IMPLEMENTATION.
= ARGONNE NAT'L LABORATORY, TECHNICAL MEMO. NO. 72,
ARGONNE, ILLINOIS, 1964.
- WOS--LT64 WOS, L.T., D.F. CARSON, AND G.A. ROBINSON.
THE UNIT PREFERENCE STRATEGY IN THEOREM PROVING. =
PROC. FJCC, THOMPSON BOOK CO., NEW YORK, 1964, 615-621.
- WOS--LT65 WOS, L.T., D.F. CARSON, AND G.A. ROBINSON.
EFFICIENCY AND COMPLETENESS OF THE SET OF SUPPORT STRATEGY
IN THEOREM PROVING. =
J. ACM 12, 4(OCT. 1965), 536-541.
- WOS--LT65A WOS, L. T., G. ROBINSON, AND D. F. CARSON
AUTOMATIC GENERATION OF PROOFS IN THE LANGUAGE
OF MATHEMATICS.
= PROC. IFIP CONGRESS, SPARTAN BOOKS, WASHINGTON, D. C.,
1965, 325-326.
- WOS--LT67 WOS, L. T., G. ROBINSON, D. CARSON, AND L. SHALLA.
THE CONCEPT OF DEMODULATION IN THEOREM-PROVING. =
J. ACM 14, 4(OCT. 1967), 698-704.
- WOS--LT68 WOS, L. T., AND G. ROBINSON.
PARAMODULATION AND SET OF SUPPORT.
= PROC. IRIA SYMPOSIUM ON AUTOMATIC DEMONSTRATION.
VERSAILLES, FRANCE, DECEMBER 1968.
- WOS--LT68A WOS, L. T., AND G. ROBINSON
THE MAXIMAL MODEL THEOREM.
= ABSTRACT, SPRING 1968 MEETING OF ASSOCIATION FOR
SYMBOLIC LOGIC, TO APPEAR IN J. OF SYMBOLIC LOGIC.
- YATESR-70 YATES, R., B. RAPHAEL, AND T. HART.
RESOLUTION GRAPHS. =
A. I. JOUR. 1, 4(DEC. 1970), 257-289.
- ZAMOVNK69 ZAMOV, N. K., AND V. I. SHARONOV.
ON A CLASS OF STRATEGIES WHICH CAN BE USED TO ESTABLISH
DECIDABILITY BY THE RESOLUTION PRINCIPLE.
= ISSLED, PO KONSTRUKTIVNOYE MATEMATIKYE I MATEMATICHESKOYE
LOGIKYE 3,16(1969),54-64. NAT LEND LIBR BOSTON SPA, YORKSHIRE.

HINTKJ-66
 HAYESPJ71
 AVARES-68
 NOHTOLM69
 PRAWID-69
 WANG-H-62
 KAMR-AS62
 REYNOJC70
 HART-TP65
 CHANGCC58
 HART-TP65
 CARLIJL62
 CAVYDGV69
 PELTZB-70
 KLINGRE71
 KLINGRE69
 WANG-H-63A
 LOVELDW71
 KRIPKS-63A
 CHANGCC58
 LUCKHD-68A
 SLAGLJR71A
 CARLIJL69A
 SLAGLJR65A
 GREENCC67
 NILSSNJ69A
 GREENCC69B
 FISHDH70
 MASLUSJ66
 GREENCC69
 FIKESR-71
 BURSIHM70
 VANDERGJ71
 KLINGRE69
 SLAGLJR71-
 FIKESR-71
 AVARES-67
 AVARES-62
 GUARDJR70
 WANG-H-63
 CARLIJL65
 WANG-H-57
 NILSSNJ71
 SLAGLJR71C
 NILSSNJ69A
 MCCARJ-69
 REYNOJC70
 GUARDJR64
 HENSCLJ68
 ROBINJA65A
 SLAGLJR67
 ROBINJA67
 ROBINJA64
 POPPLRJ67
 POPPLRJ70
 SLAGLJR71B

KNOWLEDGE,
 A LOGIC OF
 REASONING ABOUT

 MINOES AND THE
 REDUCED TO THE
 SYSTEMS AND THE
 A USEFUL

 FICATION
 E DAVIS-PUTNAM
 A COMPUTER
 POWER
 REASONING BY
 REM PROVING BY
 NO INFERENCE
 PROCEDURES: AN
 SEMANTICAL
 ALGEBRAIC
 THE
 ALS IN
 RS AS QUESTION
 RESOLUTION FOR
 ISENT QUESTION
 AUTOMATON: AN

 THE

 THE
 PROACH TO THE
 R LOGIC, AND
 ROVING AND ITS
 Y ANALOGY WITH
 MING
 STRIPS: A NEW
 AN
 AN
 THE
 F MATHEMATICAL
 ROVING LOGICAL
 OMATIZATION OF
 ING METHODS IN

 APPLICATION OF
 NT OF
 RUCTURE OF

 RESOLUTION IN

 A REVIEW OF
 ON
 REE METHODS IN
 PERIMENTS WITH
 EXPERIMENTS IN

ACCEPTANCE
 ACTIONS
 ACTIONS
 ADEPT
 ADVANCES
 AEA
 AEA
 ALGEBRAIC
 ALGEBRAIC
 ALGEBRAIC
 ALGORITHM
 ALGORITHM
 ALGORITHM
 AMPLIFICATION
 ANALOGY
 ANALOGY
 ANALYSIS
 ANALYSIS
 ANALYSIS
 ANALYSIS
 ANCESTRY
 AND/OR
 ANSWERERS
 ANSWERING
 ANSWERING
 APPLICATION
 APPLICATION
 APPLICATION
 APPLICATION
 APPLICATION
 APPLICATION
 APPLICATIONS
 APPLICATIONS
 APPROACH
 APPROACH
 APPROACH
 APPROACH
 ARBITRARILY-LARGE
 ARGUMENTS
 ARGUMENTS
 ARITHMETIC
 ARTIFICIAL
 ARTIFICIAL
 ARTIFICIAL
 ARTIFICIAL
 ATOMIC
 AUTOMATED
 AUTOMATED
 AUTOMATIC
 AUTOMATIC
 AUTOMATIC
 AUTOMATIC
 AUTOMATIC
 AUTOMATIC
 AUTOMATIC
 AUTOMATIC

****KWIC INDEX****

AND INDUCTIVE LOGIC. =
 =
 =REPRESENTATIONS OF PROBLEMS OF P
 - A HEURISTIC PROGRAM FOR PROVING THEOREMS OF GROUP THEORY. =
 AND PROBLEMS IN MECHANICAL PROOF PROCEDURE. =
 CASE OF THE DECISION PROBLEM. =DO
 CASE. =ENTSCHEIDUNGS-PROBLEM
 STRUCTURE OF ATOMIC FORMULAS. =TRANSFORMATIONAL S
 PROPERTY OF ROBINSON'S UNIFICATION ALGORITHM. =
 ANALYSIS OF MANY VALUED LOGICS.=
 =A USEFUL ALGEBRAIC PROPERTY OF ROBINSON'S UNI
 =A COMIT PROGRAM FOR TH
 FOR ESTABLISHING DEDUCTIBILITY, BASED ON INVERSE METHOD.=
 FOR THEOREM-PROVERS. =
 =A PARADIGM FO
 WITH APPLICATIONS TO RESOLUTION LOGIC. =THEO
 =MECHANICAL MATHEMATICS A
 =SOME LINEAR HERRBRAND PROOF
 OF MODAL LOGIC I. =
 OF MANY VALUED LOGICS.=
 FILTER METHOD IN AUTOMATIC DEMONSTRATION. =
 TREES.=FINDING RESOLUTION PROOFS AND USING DUPLICATE GO
 =THEOREM PROVE
 QUESTIONS. =A PROPOSED PREFERENCE STRATEGY USING SUFFICIENCY-
 SYSTEMS. =RESEARCH ON INTELL
 OF ARTIFICIAL INTELLIGENCE TECHNIQUES. =A MOBILE
 OF THEOREM-PROVING TO PROBLEM-SOLVING. =
 OF THEOREM-PROVING TECHNIQUES TO QUESTION-ANSWERING SYSTEMS. =
 OF THE INVERSE METHOD OF ESTABLISHING DEDUCIBILITY TO THE THEORY OF DECIDABLE
 OF THEOREM-PROVING TO QUESTION-ANSWERING SYSTEMS. =
 OF THEOREM PROVING TO PROBLEM SOLVING. =STRIPS: A NEW A
 TO PLANNING FOR ROBOTS. =FORMALISING SEMANTICS OF FIRST ORDER LOGIC IN FIRST O
 =OUTLINE, BIBLIOGRAPHY, AND KWIC INDEX ON MECHANICAL THEOREM P
 TO RESOLUTION LOGIC. =THEOREM PROVING B
 =ARTIFICIAL INTELLIGENCE: THE HEURISTIC PROGRA
 TO THE APPLICATION OF THEOREM PROVING TO PROBLEM SOLVING. =
 TO HEURISTIC PROBLEM SOLVING AND THEOREM-PROVING IN PROPOSITIONAL CALCULUS. =
 TO PROBLEM-SOLVING BY COMPUTER. =
 ENTITIES IN MAN-MACHINE MATHEMATICS. =
 =THE MECHANIZATION O
 EXPRESSED IN ENGLISH. =MACHINE METHODS FOR P
 =THE AXI
 INTELLIGENCE. =PROBLEM-SOLV
 INTELLIGENCE: THE HEURISTIC PROGRAMMING APPROACH. =
 INTELLIGENCE TECHNIQUES. =A MOBILE AUTOMATON: AN
 INTELLIGENCE. =SOME PHILOSOPHICAL PROBLEMS FROM THE STANUPOI
 FORMULAS. =TRANSFORMATIONAL SYSTEMS AND THE ALGEBRAIC ST
 LOGIC FOR SEMI-AUTOMATED MATHEMATICS. =
 THEOREM PROVING.=SOME NEW RESULTS ON
 DEDUCTION WITH HYPER-RESOLUTION. =
 THEOREM PROVING WITH RENAMABLE AND SEMANTIC RESOLUTION. =
 THEOREM PROVING. =
 DEDUCTION. =
 THEOREM-PROVING. =BETH-T
 INDUCTION. =EX
 LEARNING FOR A MULTIPURPOSE HEURISTIC PROGRAM.=EXPERI

WANG-H-65	MALIZATION AND	AUTOMATIC	THEOREM-PROVING. =FOR
WALDIRJ69A	A STEP TOWARD	AUTOMATIC	PROGRAM WRITING. =PROW:
WOS--LT65A		AUTOMATIC	GENERATION OF PROOFS IN THE LANGUAGE OF MATHEMATICS. =
KOWALR-68	LITY AXIOMS IN	AUTOMATIC	DEMONSTRATION. =THE CASE FOR USING EQUA
MANNAZ-70	TOWARDS	AUTOMATIC	PROGRAM SYNTHESIS. =
LUCKHD-68A	LTER METHOD IN	AUTOMATIC	DEMONSTRATION. =THE ANCESTRY FI
KOWALR-70B	LITY AXIOMS IN	AUTOMATIC	DEMONSTRATION. =THE CASE FOR USING EQUA
KOWALR-69	ANTIC TREES IN	AUTOMATIC	THEOREM-PROVING. =SEM
DARLIJL68A		AUTOMATIC	THEOREM PROVING WITH EQUALITY SUBSTITUTIONS AND MATHEMATICAL INDUCTION. =
CHANGCL70B	MODULATION FOR	AUTOMATIC	THEOREM-PROVING WITH EQUALITY. =PENAMABLE PARA
BLEDSW71	HEURISTICS IN	AUTOMATIC	THEOREM PROVING. =SPLITTING AND REDUCTION
WALDIRJ69	CTING PROGRAMS	AUTOMATICALLY	USING THEOREM PROVING. =CONSTRU
DIXONJK71	R: A METHOD OF	AUTOMATICALLY	WRITING COMPUTER PROGRAMS. =THE SPECIALIZE
NILSSNJ69A	A MOBILE	AUTOMATON	AN APPLICATION OF ARTIFICIAL INTELLIGENCE TECHNIQUES. =
WANG-H-57	THE	AXIOMATIZATION	OF ARITHMETIC. =
LEE--RC67	BLE FROM GIVEN	AXIOMS	=A COMPLETENESS THEOREM AND A COMPUTER PROGRAM FOR FINDING THEOREMS DERIVA
GILMOPC59	RODUCTION FROM	AXIOMS	OF PROOFS FOR THEOREMS DERIVABLE WITHIN THE FIRST ORDER PREDICATE CALCULUS =A
KOWALR-70B	USING EQUALITY	AXIOMS	IN AUTOMATIC DEMONSTRATION. =THE CASE FOR
DIXONJK70	ER BY COMPILED	AXIOMS	=AN IMPROVED METHOD FOR SOLVING DEDUCTIVE PROBLEMS ON A COMPUT
GODELK-67	ETENESS OF THE	AXIOMS	OF THE FUNCTIONAL CALCULUS OF LOGIC. =THE COMPL
KOWALR-68	USING EQUALITY	AXIOMS	IN AUTOMATIC DEMONSTRATION. =THE CASE FOR
POPPLRJ67		PETH-TREE	METHODS IN AUTOMATIC THEOREM-PROVING. =
GODELK-36	DIE LANGE VON	BEWEISEN	=URER
VANDERGJ71	OUTLINE,	BIBLIOGRAPHY	AND KWIC INDEX ON MECHANICAL THEOREM PROVING AND ITS APPLICATIONS. =
CANTRRG69	BASED UPON	BINARY	SEMANTIC TREES. =EFFICIENT MAXIMAL SEMANTIC RESOLUTION PROOFS
SCHONM-67	N THE BUILDING	BLOCKS	OF MATHEMATICAL LOGIC. =O
SCHONM-67	ON THE	BUILDING	BLOCKS OF MATHEMATICAL LOGIC. =
ROBINJA71A		BUILDING	DEDUCTION MACHINES. =
POPPLRJ68	MENTS ON R. M.	BURSTALL'S	MEMORANDUM MIP-R-45. =SOME COM
MASLOSJ68	TY FOR LOGICAL	CALCULI	=THE INVERSE METHOD OF ESTABLISHING DEDUCIBILI
CHURCA-41	THE	CALCULI	OF LAMBDA-CONVERSION. =
SANDEEJ69	PREDICATE	CALCULUS	=A PROPERTY-LIST REPRESENTATION FOR CERTAIN FORMULAS IN
CREVKVP68	ICAL PREDICATE	CALCULUS	=TWO UNDECIDABLE FRAGMENTS OF CLASS
NORTOLM71	R PREDICATE	CALCULUS	WITH EQUALITY. =EXPERIMENTS WITH A HEURISTIC THEOREM-PROVING PROGRAM FO
CREVKVP65	ICAL PREDICATE	CALCULUS	WITH FUNCTIONAL SYMBOLS. =A DECIDABLE FRAGMENT OF CLASS
SLAGLJR70	R PREDICATE	CALCULUS	=INTERPOLATION THEOREMS FOR RESOLUTION IN LOWE
MASLOSJ64	ICAL PREDICATE	CALCULUS	=AN INVERSE METHOD OF ESTABLISHING DEDUCIBILITY IN CLASS
GILMOPC59	RDER PREDICATE	CALCULUS	=A PROGRAM FOR THE PRODUCTION FROM AXIOMS OF PROOFS FOR THEOREMS DERIVABLE WIT
FRIEDJ-63	THE FUNCTIONAL	CALCULUS	=A SEMI-DECISION PROCEDURE FOR
MASLOSJ67	THE PREDICATE	CALCULUS	=AN INVERSE METHOD OF ESTABLISHING DEDUCTIBILITY FOR NONPRENEX FORMULAS OF
GOLOTJJ69	PROPOSITIONAL	CALCULUS	=NETS OF MARKS AND DEDUCTIBILITY IN INTUITIONISTIC
GODELK-67	THE FUNCTIONAL	CALCULUS	OF LOGIC. =THE COMPLETENESS OF THE AXIOMS OF
HAYESPJ69	D FUNCTIONAL	CALCULUS	=A MACHINE ORIENTED FORMULATION OF THE EXTENDE
NILSSNJ69	PREDICATE	CALCULUS	THEOREM PROVING. =
MCCARJ-63	PREDICATE	CALCULUS	WITH 'UNDEFINED' AS A TRUTH-VALUE. =
MANNAZ-69	PREDICATE	CALCULUS	=PROPERTIES OF PROGRAMS AND THE FIRST-ORDER
CREBEB-63	EDICATE	CALCULUS	THE CLASSICAL CASES AND SOLVABLE SUPANYI SUBCASES. =ON THE DECISION PROBLEM O
MASLOSJ66	PREDICATE	CALCULUS	=APPLICATION OF THE INVERSE METHOD OF ESTABLISHING DEDUCIBILITY TO THE THEORY
LOWENL-67	ILITIES IN THE	CALCULUS	OF RELATIVES. =ON POSSIB
COHENJ-70	THE PREDICATE	CALCULUS	=AN INTERACTIVE SYSTEM FOR PROVING THEOREMS IN
BACKEP-63	THE PREDICATE	CALCULUS	=THE REDUCED MODEL FOR SATISFIABILITY FOR TWO DECIDABLE CLASSES OF FORMULAE I
DAVYDGV67	ICAL PREDICATE	CALCULUS	=A PROOF METHOD FOR THE CLASS
AMARES-67	PROPOSITIONAL	CALCULUS	=AN APPROACH TO HEURISTIC PROBLEM SOLVING AND THEOREM-PROVING IN
CREBEB-63	THE CLASSICAL	CASES	AND SOLVABLE SUPANYI SUBCASES. =ON THE DECISION PROBLEM OF THE FIRST ORDER PRE
ACKERW-54	SOLVABLE	CASES	OF THE DECISION PROBLEM. =
LEDERJ-67	NCE IN ORGANIC	CHEMISTRY	=MECHANIZATION OF INDUCTIVE INFERE
PITRAJ-65	PROGRAM WHICH	CHOOSSES	THE THEOREMS IT PROVES. =REALIZATION OF A

ACKERW-54
CIPAORA69
CIPAORA71
CREBER-63
MASLOSJ64
MASLOSJ68
GLOTTJJ69
MASLOSJ66
MASLOSJ67
CAVYDGV69
ROBINJA64
ROBINJA65A
ROBINJA71A
BETH-Ew63
BING-K-69
QUINLJR68
SLAGLJR65
BLACKF-64
DIXONJK70
COOPEWS64
CIPAORA69
WOODMGH71
WOS--LT67
PITRAJ-66
LUCKHD-68A
KOWALR-68
KOWALR-70B
LEE--RC67
GILMPC59
BURSTRN70A
MELTZB-66A
MELTZB-69
HEWIT-C71
ROBINJA68A
WANG-H-62
SLAGLJR71A
WOS--LT65
MELTZB-71
KOWALR-70A
CANTRRG69
PHAWID-60
KANGES-63
CHURCA-65
DUNHAB-59
CAVISM-63
HEITER-70
LOVELDW68
LOVELDW69A
LOVELDW69
HEWIT-C71A
NEWELA-63
GELEHR-60
CAHLIJL65
GUARDJR70
CHURCA-36
KAHR-A562
BUCHIJR58
E CASES OF THE
ABILITY OF THE
A FILE AND THE
ON THE
F ESTABLISHING
F ESTABLISHING
S OF MARKS AND
F ESTABLISHING
F ESTABLISHING
R ESTABLISHING
ON AUTOMATIC
AUTOMATIC
BUILDING
ING COMPUTING,
NATURAL
A FORMAL
RIMENTS WITH A
A
OD FOR SOLVING
RETRIEVAL AND
THE CLASS OF
A
THE CONCEPT OF
PROGRAMMES DE
D IN AUTOMATIC
IC
IC
ING THEOREMS
THEOREMS
FORMAL
SOME RECENT
BY MEANS OF A
LESS A PATTERN
NEW
OOFs AND USING
TO A THEORY OF
MPLETENESS AND
ION IN AN
OOF METHOD FOR
BLE PROBLEM OF
AM FOR PROVING
THE PREDICATE
OVING BY MODEL
FOR THE MODEL
OMBINING MODEL
PROCEDURAL
PRESSED IN
ITRARIY-LARGE
A NOTE ON THE
CHINES AND THE

DECISION
 DECISION
 DECISION
 DECISION
 DEDUCIBILITY
 DEDUCIBILITY
 DEDUCIBILITY
 DEDUCIBILITY
 DEDUCTIBILITY
 DEDUCTIBILITY
 DEDUCTION
 DEDUCTION
 DEDUCTION
 DEDUCTION
 DEDUCTIVE
 DEDUCTIVE
 DEDUCTIVE
 DEDUCTIVE
 DEDUCTIVE
 DEFINITE
 DEFINITIONALLY
 DEMOLUATION
 DEMONSTRATION
 DEMONSTRATION
 DEMONSTRATION
 DEMONSTRATION
 DERIVABLE
 DERIVABLE
 DESCRIPTION
 DEVELOPMENTS
 DIGITAL
 DIRECTED
 DIRECTIONS
 DOMINOES
 DUPLICATE
 EFFICIENCY
 EFFICIENCY
 EFFICIENT
 EFFICIENT
 ELECTRONIC
 ELEMENTARY
 ELEMENTARY
 ELEMENTARY
 ELIMINATING
 ELIMINATION
 ELIMINATION
 ELIMINATION
 ELIMINATION
 EMBEDDING
 EMPIRICAL
 EMPIRICAL
 ENGLISH
 ENTITIES
 ENTSCHEIDUNGSP
 ENTSCHEIDUNGS-
 ENTSCHEIDUNGS-

PROBLEM, =SOLVABLE
 PROBLEM FOR THE CLASS OF DEFINITE FORMULAS, =THE RECURSIVE UNSOLV
 PROBLEM FOR CLASSES OF PROPER FORMULAS, =THE RELATIONAL DAT
 PROBLEM OF THE FIRST ORDER PREDICATE CALCULUS: THE CLASSICAL CASES AND SOLVABLE
 IN CLASSICAL PREDICATE CALCULUS, =AN INVERSE METHOD O
 FOR LOGICAL CALCULI, =THE INVERSE METHOD O
 IN INTUITIONISTIC PROPOSITIONAL CALCULUS, =NET
 TO THE THEORY OF DECIDABLE FRAGMENTS OF CLASSICAL PREDICATE CALCULUS, =APPLICAT
 FOR NONPRENEX FORMULAS OF THE PREDICATE CALCULUS, =AN INVERSE METHOD O
 BASED ON INVERSE METHOD, =A COMPUTER ALGORITHM FO
 =
 WITH HYPER-RESOLUTION, =
 MACHINES, =
 AND HEURISTICS, =OBSERVATIONS CONCERN
 WITH FEW RESTRICTIONS ON VARIABLES, =
 PROBLEM-SOLVING SYSTEM, =
 QUESTION-ANSWERING PROGRAM, =EXPE
 QUESTION-ANSWERING SYSTEM, =
 PROBLEMS ON A COMPUTER BY COMPILED AXIOMS, =AN IMPROVED METH
 QUESTION-ANSWERING INFORMATION RETRIEVAL SYSTEMS, =FACT
 FORMULAS, =THE RECURSIVE UNSOLVABILITY OF THE DECISION PROBLEM FOR
 EXTENDIBLE TYPE-LOGIC FOR MECHANICAL THEOREM PROVING, =
 IN THEOREM-PROVING, =THE CO
 DE THEOREMS UTILISANT DES METHODES HEURISTIQUES, =REALISATION DE
 =THE ANCESTRY FILTER METHO
 =THE CASE FOR USING EQUALITY AXIOMS IN AUTOMAT
 =THE CASE FOR USING EQUALITY AXIOMS IN AUTOMAT
 FROM GIVEN AXIOMS, =A COMPLETENESS THEOREM AND A COMPUTER PROGRAM FOR FIND
 WITHIN THE FIRST ORDER PREDICATE CALCULUS =A PROGRAM FOR THE PRODUCTION FROM A
 OF PROGRAM STRUCTURE AND SEMANTICS IN FIRST-ORDER LOGIC, =
 IN COMPLETE STRATEGIES FOR THEOREM-PROVING BY COMPUTER, =
 COMPUTER, =THE USE OF SYMBOLIC LOGIC IN PROVING MATHEMATICAL THEOREMS
 LANGUAGE FOR THE THEOREM PROVING FORMALISM PLANNER, =MATCH
 IN MECHANICAL THEOREM PROVING, =
 AND THE AEA CASE OF THE DECISION PROBLEM, =
 GOALS IN AND/OR TREES, =FINDING RESOLUTION PR
 AND COMPLETENESS OF THE SET OF SUPPORT STRATEGY IN THEOREM PROVING, =
 OF PROOF PROCEDURES, =PROLEGOMENA
 OF THEOREM-PROVING BY RESOLUTION, =STUDIES IN THE CO
 MAXIMAL SEMANTIC RESOLUTION PROOFS BASED UPON BINARY SEMANTIC TREES, =
 COMPUTER, =A MECHANICAL PROOF PROCEDURE AND ITS REALIZAT
 LOGIC, =A SIMPLIFIED PR
 NUMBER THEORY, =AN UNSOLVABLE
 LOGICAL THEOREMS, =A NON-HEURISTIC PROG
 THE IRRELEVANT FROM MECHANICAL PROOFS, =
 STRATEGY IN THEOREM-PROVING, =
 =MECHANICAL THEOREM-PR
 THEOREM-PROVING PROCEDURE, =A SIMPLIFIED FORMAT
 AND RESOLUTION, =THEOREM-PROVERS C
 IN PLANNER, =
 EXPLORATIONS OF THE LOGIC THEORY MACHINE, =
 EXPLORATIONS OF THE GEOMETRY THEOREM MACHINE, =
 =MACHINE METHODS FOR PROVING LOGICAL ARGUMENTS EX
 IN MAN-MACHINE MATHEMATICS, =THE ARB
 LEM, =
 BLEM REDUCED TO THE AEA CASE, =
 BLEM, =TURING MA

ROBINGA69	THEORIES WITH	EQUALITY	=PARAMODULATION AND THEOREM-PROVING IN FIRST-ORDER
SIBEREE69	OPPORATING THE	EQUALITY	RELATION, =A MACHINE-ORIENTED LOGIC INC
NORTOLM71	CALCULUS WITH	EQUALITY	=EXPERIMENTS WITH A HEURISTIC THEOREM-PROVING PROGRAM FOR PREDICATE
MORRIJB69	UDE THE	EQUALITY	RELATION =E-RESOLUTION: EXTENSION OF RESOLUTION TO INCL
KOWALR-70B	CASE FOR USING	EQUALITY	AXIOMS IN AUTOMATIC DEMONSTRATION, =THE
KOWALR-68	CASE FOR USING	EQUALITY	AXIOMS IN AUTOMATIC DEMONSTRATION, =THE
BROWNTC68	STRATEGIES AND	EQUALITY	THEORY, =RESOLUTION WITH COVERING
BRICEC-71	TICALLY GUIDED	EQUALITY	RULE IN A RESOLUTION THEOREM PROVER, =A HEURIS
CHANGCL71	S WITH	EQUALITY	=COMPLETENESS OF LINEAR REFUTATION FOR THEORE
CHANGCL70B	VING WITH	EQUALITY	=RENAMABLE PARAMODULATION FOR AUTOMATIC THEOREM-PRO
DARLIJL68A	M PROVING WITH	EQUALITY	SUBSTITUTIONS AND MATHEMATICAL INDUCTION, =AUTOMATIC THEORE
ZAMOVNK69	CAN BE USED TO	ESTABLISH	DECIDABILITY BY THE RESOLUTION PRINCIPLE, =ON A CLASS OF STRATEGIES WHICH
MASLOSJ68	ERSE METHOD OF	ESTABLISHING	DEDUCTIBILITY FOR LOGICAL CALCULI, =THE INV
MASLOSJ64	ERSE METHOD OF	ESTABLISHING	DEDUCTIBILITY IN CLASSICAL PREDICATE CALCULUS, =AN INV
MASLOSJ66	ERSE METHOD OF	ESTABLISHING	DEDUCTIBILITY TO THE THEORY OF DECIDABLE FRAGMENTS OF CLASSICAL PREDICATE CALC
MASLOSJ67	ERSE METHOD OF	ESTABLISHING	DEDUCTIBILITY FOR NONPRENEX FORMULAS OF THE PREDICATE CALCULUS, =AN INV
DAVYDGV69	ALGORITHM FOR	ESTABLISHING	DEDUCTIBILITY, BASED ON INVERSE METHOD, =A COMPUTER
ANDERR-70A	TECHNIQUE FOR	ESTABLISHING	COMPLETENESS, =A LINEAR FORMAT FOR RESOLUTION WITH MERGING AND A NEW
LANDIPJ64	THE MECHANICAL	EVALUATION	OF EXPRESSIONS, =THE ME
SIKLOL-71	TIC SEARCH VS.	EXHAUSTIVE	SEARCH, =HEURIS
SLAGLJR71B		EXPERIMENTS	IN AUTOMATIC LEARNING FOR A MULTIPURPOSE HEURISTIC PROGRAM, =
SLAGLJR68		EXPERIMENTS	WITH A MULTIPURPOSE, THEOREM-PROVING HEURISTIC PROGRAM, =
POPPLRJ70		EXPERIMENTS	WITH AUTOMATIC INDUCTION, =
SLAGLJR65		EXPERIMENTS	WITH A DEDUCTIVE QUESTION-ANSWERING PROGRAM, =
TRAVILG64		EXPERIMENTS	WITH A THEOREM UTILIZING PROGRAM, =
OWEN-RH68	SOME	EXPERIMENTS	WITH A COMPUTER REALIZATION OF A THEOREM-PROVING METHOD, =
HUNT-EB65		EXPERIMENTS	IN INDUCTION, =
NORTOLM71		EXPERIMENTS	WITH A HEURISTIC THEOREM-PROVING PROGRAM FOR PREDICATE CALCULUS WITH EQUALITY.
NEWELA-63	EMPIRICAL	EXPLORATIONS	OF THE LOGIC THEORY MACHINE, =
GELEKH-60	EMPIRICAL	EXPLORATIONS	OF THE GEOMETRY THEOREM MACHINE, =
DUNHAB-61		EXPLORATORY	MATHEMATICS BY MACHINE, =
KOWALR-68A	AN	EXPOSITION	OF PARAMODULATION WITH REFINEMENTS, =
DARLIJL65	ICAL ARGUMENTS	EXPRESSED	IN ENGLISH, =MACHINE METHODS FOR PROVING LOG
LANDIPJ64	EVALUATION OF	EXPRESSIONS	=THE MECHANICAL
HAYESPJ69	ULATION OF THE	EXTENDED	FUNCTIONAL CALCULI, =A MACHINE ORIENTED FORM
WOODMGH71	DEFINITIONALLY	EXTENDIBLE	TYPE-LOGIC FOR MECHANICAL THEOREM PROVING, =A
MORRIJB69	E-RESOLUTION:	EXTENSION	OF RESOLUTION TO INCLUDE THE EQUALITY RELATION =
LUCKHD-70		EXTRACTING	INFORMATION FROM RESOLUTION PROOF TREES, =
MORRIJB69		E-RESOLUTION	EXTENSION OF RESOLUTION TO INCLUDE THE EQUALITY RELATION =
ANDERR-70	SS RESULTS FOR	F-RESOLUTION	=COMPLETENE
ELLIONW65	A MODEL FOR A	FACT	RETRIEVAL SYSTEM, =
COPEWS64		FACT	RETRIEVAL AND DEDUCTIVE QUESTION-ANSWERING INFORMATION RETRIEVAL SYSTEMS, =
DIPAORA71	ELATIONAL DATA	FILE	AND THE DECISION PROBLEM FOR CLASSES OF PROPER FORMULAS, =THE R
LUCKHD-68A	THE ANCESTRY	FILTER	METHOD IN AUTOMATIC DEMONSTRATION, =
SLAGLJR71A		FINDING	RESOLUTION PROOFS AND USING DUPLICATE GOALS IN AND/OR TREES, =
LEE--RC67	ER PROGRAM FOR	FINDING	THEOREMS DERIVABLE FROM GIVEN AXIOMS, =A COMPLETENESS THEOREM AND A COMPUT
ROBINGA69	REM-PROVING IN	FIRST-ORDER	THEORIES WITH EQUALITY, =PARAMODULATION AND THEO
ROBINJA63	CHINE-ORIENTED	FIRST-ORDER	LOGIC, =A MA
MANHAZ-69	OGRAMS AND THE	FIRST-ORDER	PREDICATE CALCULI, =PROPERTIES OF PR
BURSTRM70A	NTICS IN	FIRST-ORDER	LOGIC, =FORMAL DESCRIPTION OF PROGRAM STRUCTURE AND SEMA
PAHK-D-70		FIXPOINT	INDUCTION AND PROOFS OF PROGRAM PROPERTIES, =
CHAIGW-57	ASONING, A NEW	FORM	OF THE HERBRAND-GENTZEN THEOREM, =LINEAR RE
QUINLJR68	A	FORMAL	DEDUCTIVE PROBLEM-SOLVING SYSTEM, =
BURSTRM70A		FORMAL	DESCRIPTION OF PROGRAM STRUCTURE AND SEMANTICS IN FIRST-ORDER LOGIC, =
BETH-E-62		FORMAL	METHODS, =
BURSTRM70		FORMALISING	SEMANTICS OF FIRST ORDER LOGIC IN FIRST ORDER LOGIC, AND APPLICATION TO PLANNI
HEWIT-C71	PROVING	FORMALISM	PLANNER, =MATCHLESS A PATTERN DIRECTED LANGUAGE FOR THE THEOREM

WANG-H-65
 MELTZB-67
 MANNAZ-70B
 ASHCHE-71
 GODELK-67A
 REITER-70A
 LOVELDW68A
 LOVELDW69A
 ANDERR-70A
 HODESL-71
 BACKER-63
 REYNOC70
 SANDEEJ69
 MASLOSJ67
 DIPAGRA69
 DIPAGRA71
 HAYESPU69
 NEHODA-62
 CREVKVP65
 CREVKVP68
 MASLOSJ66
 KAPHA-70
 VANHEJ-67
 MANNAZ-70A
 KOWALR-70C
 GODELK-67
 MANNAZ-70B
 HAYESPU69
 CREVKVP65
 FRIEDJ-63
 LEE--RC70
 LEE--RC71
 WANG-H-65A
 ROBINJA61
 PLOTKGD70A
 NEWELA-65
 SKOLET-67
 FINTIJ-65
 PLOTKGD71
 ROBINJA68
 REYNOCJ68
 WOS--LT65A
 GELEKH-60
 GELEKH-63
 SLAGLJK71A
 VANHEJ-67
 REYNOCJ68
 YATESR-70
 NORTOLM69
 GARVETU69
 BRICEC-71
 FRAWID-67
 FRAWID-68
 LOVELDW71
 CRAIGW-57
 CRAIGW-57A
 SLAGLJK71B

LOGIC AND THE

ON
 AND LINEAR
 A LINEAR
 A SIMPLIFIED
 A LINEAR
 NG PROBLEMS BY
 CLASSES OF
 OF ATOMIC
 ON FOR CERTAIN
 NONPRENEX
 SS OF DEFINITE
 SSES OF PROPER
 CHINE ORIENTED
 THE
 A DECIDABLE
 WO UNDECIDABLE
 Y OF DECIDABLE
 THE
 FROM
 MS AND PARTIAL
 WITH SELECTION
 AXIOMS OF THE
 PROPERTIES OF
 F THE EXTENDED
 US WITH
 CEDURE FOR THE
 PROPERTIES OF

A
 E ON INDUCTIVE
 THE SEARCH FOR
 L. LOEWENHEIM,
 Y OF INDUCTIVE
 E ON INDUCTIVE
 THE
 A
 AUTOMATIC
 RATIONS OF THE
 EALIZATION OF A
 SING DUPLICATE
 FROM FREGE TO
 CONTEXT-FREE
 RESOLUTION
 EMS OF
 USERS
 HEURISTICALLY
 MPLETENESS AND
 SOME LINEAR
 EW FORM OF THE
 EE USES OF THE
 PURPOSE

FORMALIZATION
 FORMALIZATION
 FORMALIZATION
 FORMALIZATION
 FORMALLY
 FORMAT
 FOMAT
 FORMAT
 FORMAT
 FORMULA
 FORMULAE
 FORMULAS
 FORMULAS
 FORMULAS
 FORMULAS
 FORMULATION
 FOUNDATIONS
 FRAGMENT
 FRAGMENTS
 FRAGMENTS
 FRAME
 FREGE
 FUNCTION
 FUNCTION
 FUNCTIONAL
 FUNCTIONAL
 FUNCTIONAL
 FUNCTIONAL
 FUNCTIONAL
 FUZZY
 FUZZY
 GAMES
 GENERAL
 GENERALISATION
 GENERALITY
 GENERALIZ
 GENERALIZATION
 GENERALIZATION
 GENERALIZED
 GENERALIZED
 GENERATION
 GEOMETRY
 GEOMETRY-THEOREM-PROVING MACHINE, =R
 GOALS
 GODEL
 GRAMMARS
 GRAPHS
 GROUP
 GUIDE
 GUIDED
 HAUPTSATZ
 HAUPTSATZ
 HERBRAND
 HERBRAND-GENTZEN
 HERBRAND-GENTZEN
 HEURISTIC

AND AUTOMATIC THEOREM-PROVING. =
 OF MATHEMATICS. =
 OF PROPERTIES OF FUNCTIONAL PROGRAMS. =
 OF PROPERTIES OF PARALLEL PROGRAMS. =
 UNDECIDABLE PROPOSITIONS OF PRINCIPAL MATHEMATICA AND RELATED SYSTEMS. =
 =TWO RESULTS ON ORDERING FOR RESOLUTION WITH MERGING
 FOR RESOLUTION. =
 FOR THE MODEL ELIMINATION THEOREM-PROVING PROCEDURE. =
 FOR RESOLUTION WITH MERGING AND A NEW TECHNIQUE FOR ESTABLISHING COMPLETENESS,
 MANIPULATION IN LOGIC AND LINEAR INEQUALITIES. =SOLVI
 IN THE PREDICATE CALCULUS. =THE REDUCED MODEL FOR SATISFIABILITY FOR TWO DECID
 =TRANSFORMATIONAL SYSTEMS AND THE ALGEBRAIC STRUCTURE
 IN PREDICATE CALCULUS. =A PROPERTY-LIST REPRESENTATI
 OF THE PREDICATE CALCULUS. =AN INVERSE METHOD OF ESTABLISHING DEDUCTIBILITY FOR
 =THE RECURSIVE UNSOLVABILITY OF THE DECISION PROBLEM FOR THE CLA
 =THE RELATIONAL DATA FILE AND THE DECISION PROBLEM FOR CLA
 OF THE EXTENDED FUNCTIONAL CALCULUS. =A MA
 OF MATHEMATICS, A STUDY IN THE PHILOSOPHY OF SCIENCE. =
 OF CLASSICAL PREDICATE CALCULUS WITH FUNCTIONAL SYMBOLS. =
 OF CLASSICAL PREDICATE CALCULUS. =T
 OF CLASSICAL PREDICATE CALCULUS. =APPLICATION OF THE INVERSE METHOD OF ESTABLIS
 PROBLEM IN PROBLEM-SOLVING SYSTEMS. =
 TO GODEL: A SOURCE BOOK IN MATHEMATICAL LOGIC. =
 LOGIC. =PROPERTIES OF PROGRA
 =LINEAR RESOLUTION
 CALCULUS OF LOGIC. =THE COMPLETENESS OF THE
 PROGRAMS. =FORMALIZATION OF
 CALCULUS. =A MACHINE ORIENTED FORMULATION O
 SYMBOLS. =A DECIDABLE FRAGMENT OF CLASSICAL PREDICATE CALCUL
 CALCULUS. =A SEMI-DECISION PRO
 LOGIC. =SOME
 LOGIC AND THE RESOLUTION PRINCIPLE. =
 LOGIC. AND COMPUTERS. =
 THEOREM-PROVING PROGRAM FOR THE IBM 704. =
 =A NOT
 =THE SE
 THEOREM. =LOGICO-COMBINATIONAL INVESTIGATIONS IN THE SATISFIABILITY OR PROVAB
 =TOWARDS A THEOR
 =A FURTHER NOT
 RESOLUTION PRINCIPLE. =
 RESOLUTION PRINCIPLE BASED UPON CONTEXT-FREE GRAMMARS. =
 OF PROOFS IN THE LANGUAGE OF MATHEMATICS. =
 THEOREM MACHINE. =EMPIRICAL EXPLO
 IN AND/OR TREES. =FINDING RESOLUTION PROOFS AND U
 A SOURCE BOOK IN MATHEMATICAL LOGIC. =
 =A GENERALIZED RESOLUTION PRINCIPLE BASED UPON
 =
 THEORY. =ADEPT - A HEURISTIC PROGRAM FOR PROVING THEOR
 TO QA 3.5 QUESTION-ANSWERING SYSTEM. =
 EQUALITY RULE IN A RESOLUTION THEOREM PROVER. =A
 FOR SECOND ORDER LOGIC. =CO
 FOR HIGHER ORDER LOGIC. =
 PROOF PROCEDURES: AN ANALYSIS. =
 THEOREM. =LINEAR REASONING. A N
 THEOREM RELATING MODEL THEORY TO PROOF THEORY. =THH
 PROGRAM. =EXPERIMENTS IN AUTOMATIC LEARNING FOR A MULTI

SLAGLJR71C	ELLIGENCE: THE	HEURISTIC	PROGRAMMING APPROACH. =ARTIFICIAL INT
SLAGLJR65B	EOREM PROVING,	HEURISTIC	PROGRAM THAT LEARNS. =A MULTIPURPOSE, TH
SLAGLJR68	ING	HEURISTIC	PROGRAM. =EXPERIMENTS WITH A MULTIPURPOSE, THEOREM-PROV
ROBINJA67B		HEURISTIC	AND COMPLETE PROCESSES IN THE MECHANIZATION OF THEOREM-PROVING. =
SIKLOL-71		HEURISTIC	SEARCH VS. EXHAUSTIVE SEARCH. =
NORTOLM69	ADEPT - A	HEURISTIC	PROGRAM FOR PROVING THEOREMS OF GROUP THEORY. =
NORTOLM71	RIMENTS WITH A	HEURISTIC	THEOREM-PROVING PROGRAM FOR PREDICATE CALCULUS WITH EQUALITY. =EXPE
AMARES-67	AN APPROACH TO	HEURISTIC	PROBLEM SOLVING AND THEOREM-PROVING IN PROPOSITIONAL CALCULUS. =AN APP
BRICEC-71	A	HEURISTICALLY	GUIDED EQUALITY RULE IN A RESOLUTION THEOREM PROVER. =
BLEDShw71	AND REDUCTION	HEURISTICS	IN AUTOMATIC THEOREM PROVING. =SPLITTING
BETH-EW63	DEDUCTION AND	HEURISTICS	=OBSERVATIONS CONCERNING COMPUTING,
PITRAJ-66	T DES METHODES	HEURISTIQUES	=REALISATION DE PROGRAMMES DE DEMONSTRATION DE THEOREMS UTILISAN
ROBINJA70	ON MECHANIZING	HIGHER	ORDER LOGIC. =A NOTE
FRANID-68	HAUPTSATZ FOR	HIGHER	ORDER LOGIC. =HAUPTS
ROBINJA69	MECHANIZING	HIGHER-ORDER	LOGIC. =
ROBINJA65A	DEDUCTION WITH	HYPER-RESOLUTION	=AUTOMATIC
WOS--LT64	GIES AND THEIR	IMPLEMENTATION	=SOME THEOREM PROVING STRATE
ROBINGA64	GIES AND THEIR	IMPLEMENTATIONS	=SOME THEOREM-PROVING STRATE
FRANID-60A	AN	IMPROVED	PROOF PROCEDURE. =
DIXONJK70	AN	IMPROVED	METHOD FOR SOLVING DEDUCTIVE PROBLEMS ON A COMPUTER BY COMPILED AXIOMS. =
SIBEREE69	ORIENTED LOGIC	INCORPORATING	THE EQUALITY RELATION. =A MACHINE-
VANDERGJ71	APHY, AND KWIC	INDEX	ON MECHANICAL THEOREM PROVING AND ITS APPLICATIONS. =OUTLINE, BIBLIOGR
BURSTRM68	A SCHEME FOR	INDEXING	AND RETRIEVING CLAUSES FOR A RESOLUTION THEOREM-PROVER. =
POPPLRJ70	WITH AUTOMATIC	INDUCTION	=EXPERIMENTS
KEPENJG53	SIMPLICITY IN	INDUCTION	=THE USE OF
PARK-D-70	FIXPOINT	INDUCTION	AND PROOFS OF PROGRAM PROPERTIES. =
HUNT-EB65	EXPERIMENTS IN	INDUCTION	=EXPERI
CARLIJL68A	MATHEMATICAL	INDUCTION	=AUTOMATIC THEOREM PROVING WITH EQUALITY SUBSTITUTIONS AND
BURSTRM69	BY STRUCTURAL	INDUCTION	=PROVING PROPERTIES OF PROGRAMS
PLOTKGD70A	A NOTE ON	INDUCTIVE	GENERALISATION. =
LEDEKJ-67	CHANIZATION OF	INDUCTIVE	INFERENCE IN ORGANIC CHEMISTRY. =ME
HINTIJ-65	US A THEGRY OF	INDUCTIVE	GENERALIZATION. =TOWAR
PLOTKGD71	URTHER NOTE ON	INDUCTIVE	GENERALIZATION. =A F
HINTKJ-66	ACCEPTANCE AND	INDUCTIVE	LOGIC. =KNOWLEDGE,
HQUESL-71	D LINEAR	INEQUALITIES	=SOLVING PROBLEMS BY FORMULA MANIPULATION IN LOGIC AN
LEUERJ-67	N OF INDUCTIVE	INFERENCE	IN ORGANIC CHEMISTRY. =MECHANIZATIO
WANG-H-63A	ATHEMATICS AND	INFENENTIAL	ANALYSIS. =MECHANICAL "
NAPHAB-64A	M FOR SEMANTIC	INFORMATION	RETRIEVAL. =SIR: A COMPUTER PROGRA
LUCKHD-70	EXTRACTING	INFORMATION	FROM RESOLUTION PROOF TRFES. =
CARLIJL69	EM PROVING AND	INFORMATION	RETRIEVAL. =THEOR
COUPEWS64	NG	INPUT	RETRIEVAL SYSTEMS. =FACT RETRIEVAL AND DEDUCTIVE QUESTION-ANSWERI
CHANGCL70A	PROOF AND THE	INTEGERS	PROOF IN THEOREM PROVING. =THE UNIT
KING-J-70	EM PROVER OVER	INTELLIGENCE	=AN INTERPRETATION ORIENTED THEOR
SLAGLJR71C	ARTIFICIAL	INTELLIGENCE	THE HEURISTIC PROGRAMMING APPROACH. =
NILSSNJ69A	IAL	INTELLIGENCE	TECHNIQUES. =A MOBILE AUTOMATON: AN APPLICATION OF ARTIFIC
NCCARJ-69	ARTIFICIAL	INTELLIGENCE	=SOME PHILOSOPHICAL PROBLEMS FROM THE STANDPOINT OF
NILSSNJ71	IN ARTIFICIAL	INTELLIGENCE	=PROBLEM-SOLVING METHODS
GREENCC67	RESEARCH ON	INTELLIGENT	QUESTION ANSWERING SYSTEMS. =
COHENJ-70	AN	INTERACTIVE	SYSTEM FOR PROVING THEOREMS IN THE PREDICATE CALCULUS. =
ALLENJ-70	AN	INTERACTIVE	THEOREM-PROVING PROGRAM. =
SLAGLJK70		INTERPOLATION	THEOREMS FOR RESOLUTION IN LOWER PREDICATE CALCULUS. =
KING-J-70	AN	INTERPRETATION	ORIENTED THEOREM PROVER OVER INTEGERS. =
ACKERR-67		INTRODUCTION	TO MANY VALUED LOGIC. =
BENNEJH63		INTRODUCTION	TO SEMI-AUTOMATED MATHEMATICS. =
GOLOTJJ69	EDUCIBILITY IN	INTUITIONISTIC	PROPOSITIONAL CALCULUS. =NETS OF MARKS AND D
NASLOSJ67	AN	INVERSE	METHOD OF ESTABLISHING DEDUCTIBILITY FOR NONPRENEX FORMULAS OF THE PREDICATE C
NASLOSJ69	N AND	INVERSE	METHODS. =A CONNECTION BETWEEN TACTICS OF THE RESOLUTIO

MASLOSJ64	AN	INVERSE
KUEFNDG71	MASLOV'S	INVERSE
MASLOSJ66	ICATION OF THE	INVERSE
MASLOSJ68	THE	INVERSE
CAVYDGV69	ITY, BASED ON	INVERSE
SKOLET-67	-COMBINATIONAL	INVESTIGATIONS
HEMBKJ-67		INVESTIGATIONS
CAVISM-63	ELIMINATING THE	IRRELEVANT
HINTKJ-66		KNOWLEDGE
VANDERGJ71	LIOGRAPHY, AND	KWIC
CHURCA-41	THE CALCULI OF	LAMBDA-CONVERSION
GODELK-36	UBER DIE	LANGUAGE
WOS--LT65A	PROOFS IN THE	LANGUAGE
HEWITC-69	PLANNER: A	LANGUAGE
HEWIT-C71	TTERN DIRECTED	LANGUAGE
GAHLIJL64	ATING ORINARY	LANGUAGE
BENNEJH64	THEMATICS: THE	LANGUAGE
PLOTKGD70		LATTICE
SLAGLJR71B	S IN AUTOMATIC	LEARNING
SLAGLJR65B	THAT	LEARNS
BLEDSSW71A	PUTER PROOF OF	LIMIT
KOWALK-70C		LINEAR
REITER-70A	ERGING AND	LINEAR
LOVELDW68A	A	LINEAR
LOVELDW71	SOME	LINEAR
HQUESL-71	OGIC AND	LINEAR
ANDERR-70A	A	LINEAR
CHAIGW-57		LINEAR
CHANGCL71	OMPLETENESS OF	LINEAR
MILLSR-68	IC THEORIST IN	LISP
WANG-H-65A	GAMES,	LOGIC
ROBINJA71	COMPUTATIONAL	LOGIC
ROBINJA65	CHINE ORIENTED	LOGIC
ROSSEJB52	MANY-VALUED	LOGIC
SKOLEMT-67	N MATHEMATICAL	LOGIC
VANHEJ-67	N MATHEMATICAL	LOGIC
ROBINJA70	G HIGHER ORDER	LOGIC
SCHONN-67	F MATHEMATICAL	LOGIC
SIBEREE69	CHINE-ORIENTED	LOGIC
ROBINJA69	G HIGHER-ORDER	LOGIC
KLINGRE69	RESOLUTION	LOGIC
MILLSR-68	THE	LOGIC
LEE--RC71	FUZZY	LOGIC
NEWELA-63	RATIONS OF THE	LOGIC
PRAWID-68	R HIGHER ORDER	LOGIC
KRIPKS-63	TIONS CN MODAL	LOGIC
KRIPKS-63A	LYSIS OF MODAL	LOGIC
PANNAZ-70A	RTIAL FUNCTION	LOGIC
NEWELA-56	THE	LOGIC
GUARDJR64	AUTOMATED	LOGIC
MELTZB-67A	MATHEMATICS,	LOGIC
HINTKJ-66	AND INDUCTIVE	LOGIC
KANGES-63	FOR ELEMENTARY	LOGIC
MELTZB-67		LOGIC
HQUESL-71	ANIPULATION IN	LOGIC
MAYESPJ71	A	LOGIC
ROBINJA63	ED FIRST-ORDER	LOGIC

METHOD OF ESTABLISHING DEDUCIBILITY IN CLASSICAL PREDICATE CALCULUS, =
METHOD, =A NOTE ON THE RELATION BETWEEN RESOLUTION AND
METHOD OF ESTABLISHING DEDUCIBILITY TO THE THEORY OF DECIDABLE FRAGMENTS OF C
METHOD OF ESTABLISHING DEDUCIBILITY FOR LOGICAL CALCULI, =
METHOD, =A COMPUTER ALGORITHM FOR ESTABLISHING DEDUCTIBIL
IN THE SATISFIABILITY OR PROVABILITY OF MATHEMATICAL PROPOSITIONS: A SIMPLIFIED
IN PROOF THEORY, =
FROM MECHANICAL PROOFS, =E
ACCEPTANCE AND INDUCTIVE LOGIC, =
INDEX ON MECHANICAL THEOREM PROVING AND ITS APPLICATIONS, =OUTLINE, BIB
=THE CA
VON BEWEISEN, =
OF MATHEMATICS, =AUTOMATIC GENERATION OF
FOR PROVING THEOREMS IN ROBOTS, =
FOR THE THEOREM PROVING FORMALISM PLANNER, =MATCHLESS A PA
INTO SYMBOLIC LOGIC, =TRANSL
AND LOGIC OF SAM III, =TOWARD SEMI-AUTOMATED MA
THEORETIC PROPERTIES OF SUBSUMPTION, =
FOR A MULTIPURPOSE HEURISTIC PROGRAM, =EXPERIMENT
=A MULTIPURPOSE, THEOREM PROVING, HEURISTIC PROGRAM
THEOREMS, =COM
RESOLUTION WITH SELECTION FUNCTION, =
FORMAT, =TWO RESULTS ON ORDERING FOR RESOLUTION WITH M
FORMAT FOR RESOLUTION, =
HEBRAND PROOF PROCEDURES: AN ANALYSIS, =
INEQUALITIES, =SOLVING PROBLEMS BY FORMULA MANIPULATION IN L
FORMAT FOR RESOLUTION WITH MERGING AND A NEW TECHNIQUE FOR ESTABLISHING COMPLE
REASONING, A NEW FORM OF THE HERRBRAND-GENTZEN THEOREM, =
REFUTATION FOR THEOREMS WITH EQUALITY, =C
=THE LOG
AND COMPUTERS, =
THE UNIFICATION COMPUTATION, =
BASED ON THE RESOLUTION PRINCIPLE, =A MA
=
=FROM FREGE TO GODEL: A SOURCE BOOK I
=A NOTE ON MECHANIZIN
=ON THE BUILDING BLOCKS O
INCORPORATING THE EQUALITY RELATION, =A MA
=MECHANIZIN
=THEOREM PROVING BY ANALOGY WITH APPLICATIONS TO
THEORIST IN LISP, =
AND THE RESOLUTION PRINCIPLE, =
THEORY MACHINE, =EMPIRICAL EXPLO
=HAUPTSATZ FO
=SEMANTICAL CONSIDERA
I, =SEMANTICAL ANA
=PROPERTIES OF PROGRAMS AND PA
THEORY MACHINE, =
FOR SEMI-AUTOMATED MATHEMATICS, =
AND UNDECIDABILITY, =
=KNOWLEDGE, ACCEPTANCE
=A SIMPLIFIED PROOF METHOD
AND THE FORMALIZATION OF MATHEMATICS, =
AND LINEAR INEQUALITIES, =SOLVING PROBLEMS BY FORMULA M
OF ACTIONS, =
=A MACHINE-ORIENT

LEE--RC70	RTIES OF FUZZY	LOGIC	=SOME PROPE
MELTZB-69	SE OF SYMBOLIC	LOGIC	IN PROVING MATHEMATICAL THEOREMS BY MEANS OF A DIGITAL COMPUTER. =THE U
FRANID-67	R SECOND ORDER	LOGIC	=COMPLETENESS AND HAUPTSATZ FO
BURSTRM70	OF FIRST ORDER	LOGIC	IN FIRST ORDER LOGIC, AND APPLICATION TO PLANNING FOR ROBOTS. =FORMALISING SEM
BURSTRM70	FIRST ORDER	LOGIC	AND APPLICATION TO PLANNING FOR ROBOTS. =FORMALISING SEMANTICS OF FIRST ORDER
BURSTRM70A	IN FIRST-ORDER	LOGIC	=FORMAL DESCRIPTION OF PROGRAM STRUCTURE AND SEMANTICS
FRIEDJ-65	N PROCEDURE IN	LOGIC	=COMPUTER REALIZATION OF A DECISIO
GOULDWE66	OR OMEGA-ORDER	LOGIC	=A MATCHING PROCEDURE F
DAKLIJL64	INTO SYMBOLIC	LOGIC	=TRANSLATING ORDINARY LANGUAGE
CARLIJL71	F SECOND-ORDER	LOGIC	=A PARTIAL MECHANIZATION O
GOUELK-67	CALCULUS OF	LOGIC	=THE COMPLETENESS OF THE AXIOMS OF THE FUNCTIONAL
ACKERR-67	TO MANY VALUED	LOGIC	=INTRODUCTION
BENNEJH64	E LANGUAGE AND	LOGIC	OF SAM III. =TOWARD SEMI-AUTOMATED MATHEMATICS: TH
MASLOSJ68	UCCIBILITY FOR	LOGICAL	CALCULI. =THE INVERSE METHOD OF ESTABLISHING DE
DUNHAB-59	ING ELEMENTARY	LOGICAL	THEOREMS. =A NON-HEURISTIC PROGRAM FOR PROV
CARLIJL65	DS FOR PROVING	LOGICAL	ARGUMENTS EXPRESSED IN ENGLISH. =MACHINE METHO
ROBINA-57	N, MACHINE AND	LOGICIAN	=PROVING THEOREMS, AS DONE BY NA
SKOLET-67		LOGICO-COMBINATIONAL	INVESTIGATIONS IN THE SATISFIABILITY OR PROVABILITY OF MATHEMATICAL PROPOSI
CHANGCC58	OF MANY VALUED	LOGICS	=ALGEBRAIC ANALYSIS
SKOLET-67	THEOREM BY L.	LOWENHEIM	GENERALIZ. THEOREM. =LOGICO-COMBINATIONAL INVESTIGATIONS IN THE SATISFIABILITY
SLAGLJR70	RESOLUTION IN	LOWER	PREDICATE CALCULUS. =INTERPOLATION THEOREMS FOR
NEWELA-56	E LOGIC THEORY	MACHINE	=TH
ROBINA-57	S DONE BY MAN,	MACHINE	AND LOGICIAN. =PROVING THEOREMS, A
HAYESPJ69	A	MACHINE	ORIENTED FORMULATION OF THE EXTENDED FUNCTIONAL CALCULUS. =
NEWELA-63	E LOGIC THEORY	MACHINE	=EMPIRICAL EXPLORATIONS OF TH
ROBINJA65	A	MACHINE	ORIENTED LOGIC BASED ON THE RESOLUTION PRINCIPLE. =
GELEHH-63	MEOREM-PROVING	MACHINE	=REALIZATION OF A GEOMETRY-T
DUNHAB-61	MATHEMATICS BY	MACHINE	=EXPLORATORY
CARLIJL65		MACHINE	METHODS FOR PROVING LOGICAL ARGUMENTS EXPRESSED IN ENGLISH. =
GELEHH-60	OMETRY THEOREM	MACHINE	=EMPIRICAL EXPLORATIONS OF THE GE
CAVISM-62	A	MACHINE	PROGRAM FOR THEOREM-PROVING. =
WANG-H-67	REMARKS ON	MACHINES	SETS, AND THE DECISION PROBLEM. =
ROBINJA71A	DING DEDUCTION	MACHINES	=BUIL
BUCHIJK58	TURING	MACHINES	AND THE ENTSCHEIDUNGS-PROBLEM. =
SIEHEEE69	A	MACHINE-ORIENTED	LOGIC INCORPORATING THE EQUALITY RELATION. =
ROBINJA63	A	MACHINE-ORIENTED	FIRST-ORDER LOGIC. =
ROBINA-57	MS, AS DONE BY	MAN	MACHINE AND LOGICIAN. =PROVING THEORE
MODESL-71	EMS BY FORMULA	MANIPULATION	IN LOGIC AND LINEAR INEQUALITIES. =SOLVING PROBL
ACKERR-67	NTRODUCTION TO	MANY	VALUED LOGIC. =I
CHANGCC58	IC ANALYSIS OF	MANY	VALUED LOGICS. =ALGEBRA
ROSSEJH52		MANY-VALUED	LOGIC. =
GLARDJR70	GE ENTITIES IN	MAN-MACHINE	MATHEMATICS. =THE ARBITRARILY-LAP
GOLOTJJ69	NETS OF	MARKS	AND DEDUCIBILITY IN INTUITIONISTIC PROPOSITIONAL CALCULUS. =
KUEHNDG71	RESOLUTION AND	MASLOV'S	INVERSE METHOD. =A NOTE ON THE RELATION BETWEEN
GOULDWE66	A	MATCHING	PROCEDURE FOR OMEGA-ORDER LOGIC. =
CHINLTJ64	REM-PROVING BY	MATCHING	=THEO
HEWIT-C71		MATCHLESS	A PATTERN DIRECTED LANGUAGE FOR THE THEOREM PROVING FORMALISM PLANNER. =
GOUELK-67A	IPIA	MATHEMATICA	AND RELATED SYSTEMS. =ON FORMALLY UNDECIDABLE PROPOSITIONS OF PRINC
SKOLET-67	PROVABILITY OF	MATHEMATICAL	PROPOSITIONS: A SIMPLIFIED PROOF OF A THEOREM BY L. LOWENHEIM, GENERALIZ. THEO
VANHEJ-67	SOURCE BOOK IN	MATHEMATICAL	LOGIC. =FROM FREGE TO GODEL: A
WANG-H-63	CHANIZATION OF	MATHEMATICAL	ARGUMENTS. =THE ME
SKOLEMT-67	ON	MATHEMATICAL	LOGIC. =
SCHONM-67	DING BLOCKS OF	MATHEMATICAL	LOGIC. =ON THE BUIL
MELTZB-69	GIC IN PROVING	MATHEMATICAL	THEOREMS BY MEANS OF A DIGITAL COMPUTER. =THE USE OF SYMBOLIC LO
CARLIJL68A	ITUTIONS AND	MATHEMATICAL	INDUCTION. =AUTOMATIC THEOREM PROVING WITH EQUALITY SUBST
WOS--LT65A	OF	MATHEMATICS	=AUTOMATIC GENERATION OF PROOFS IN THE LANGUAGE
WANG-H-60	RDS MECHANICAL	MATHEMATICS	=TOWA

WANG-H-63A	MECHANICAL	MATHEMATICS	AND INFERENTIAL ANALYSIS. =
MELTZB-67	REALIZATION OF	MATHEMATICS	=LOGIC AND THE FO
MELTZB-67A		MATHEMATICS	LOGIC AND UNDECIDABILITY. =
MELTZB-68A	A NEW LOOK AT	MATHEMATICS	AND ITS MECHANIZATION. =
NEHODA-62	FOUNDATIONS OF	MATHEMATICS	A STUDY IN THE PHILOSOPHY OF SCIENCE. =THE
GUNHAB-61	EXPLOATORY	MATHEMATICS	BY MACHINE. =
GUARDJH69	SEMI-AUTOMATED	MATHEMATICS	=SEMI-A
GUARDJH64	SEMI-AUTOMATED	MATHEMATICS	=AUTOMATED LOGIC FOR
BENNEJH64	SEMI-AUTOMATED	MATHEMATICS	THE LANGUAGE AND LOGIC OF SAM III. =TOWARD
BENNEJH63	SEMI-AUTOMATED	MATHEMATICS	=INTRODUCTION TO
GUARDJH70	IN MAN-MACHINE	MATHEMATICS	=THE ARBITRARILY-LARGE ENTITIES
BENNEJH67	SEMI-AUTOMATED	MATHEMATICS	=CRT-AIDED
BENNEJH64A	SEMI-AUTOMATED	MATHEMATICS	SAM IV. =SEMI-A
ANDREPB68A	IMPLIFYING THE	MATRIX	OF A WFF. =ON S
WOS--LT68A	THE	MAXIMAL	MODEL THEOREM. =
CANTHRG69	EFFICIENT	MAXIMAL	SEMANTIC RESOLUTION PROOFS BASED UPON BINARY SEMANTIC TREES. =
WANG-H-63A		MECHANICAL	MATHEMATICS AND INFERENTIAL ANALYSIS. =
WANG-H-60	TOWARDS	MECHANICAL	MATHEMATICS. =
VANDERGJ71	KWIC INDEX ON	MECHANICAL	THEOREM PROVING AND ITS APPLICATIONS. =OUTLINE, BIBLIOGRAPHY, AND
ROBINJA70A	AN OVERVIEW OF	MECHANICAL	THEOREM PROVING. =AN OVE
WCCDMGH71	TYPE-LOGIC FOR	MECHANICAL	THEOREM PROVING. =A DEFINITIONALLY EXTENDIBLE
FRANID-69	ND PROBLEMS IN	MECHANICAL	PROOF PROCEDURE. =ADVANCES A
FRANID-60	A	MECHANICAL	PROOF PROCEDURE AND ITS REALIZATION IN AN ELECTRONIC COMPUTER. =
LOVELUW68		MECHANICAL	THEOREM-PROVING BY MODEL ELIMINATION. =
ROBINJA68A	DIRECTIONS IN	MECHANICAL	THEOREM PROVING. =NEW
LANCIPJ64	THE	MECHANICAL	EVALUATION OF EXPRESSIONS. =
COOPEDC71	PROGRAMS FOR	MECHANICAL	PROGRAM VERIFICATION. =
CAVISM-63	IRRELEVANT FROM	MECHANICAL	PROOFS. =ELIMINATING THE I
WANG-H-63	THE	MECHANIZATION	OF MATHEMATICAL ARGUMENTS. =
ROBINJA67B	OCESSES IN THE	MECHANIZATION	OF THEOREM-PROVING. =HEURISTIC AND COMPLETE PR
LEUEKJ-67		MECHANIZATION	OF INDUCTIVE INFERENCE IN ORGANIC CHEMISTRY. =
MELTZB-68A	MATICS AND ITS	MECHANIZATION	=A NEW LOOK AT MATH
CARLIJL71	A PARTIAL	MECHANIZATION	OF SECOND-ORDER LOGIC. =
ROBINJA69		MECHANIZING	HIGHER-ORDER LOGIC. =
ROBINJA70	A NOTE ON	MECHANIZING	HIGHER ORDER LOGIC. =
HEITER-70A	ESOLUTION WITH	MERGING	AND LINEAR FORMAT. =TWO RESULTS ON ORDERING FOR R
HENSCLJ69	RESOLUTION,	MERGING	SET OF SUPPORT AND TAUTOLOGIES. =
ANDREPB68	ESOLUTION WITH	MERGING	=R
ANDERR-70A	ESOLUTION WITH	MERGING	AND A NEW TECHNIQUE FOR ESTABLISHING COMPLETENESS. =A LINEAR FORMAT FOR R
KALLIB-68	RESOLUTION	METHOD	=PROOF PROCEDURES AND DECISION PROCEDURES BASED ON THE
MASLOSJ67	AN INVERSE	METHOD	OF ESTABLISHING DEDUCTIBILITY FOR NONPRENEX FORMULAS OF THE PREDICATE CALCULUS
MASLOSJ66	OF THE INVERSE	METHOD	OF ESTABLISHING DEDUCTIBILITY TO THE THEORY OF DECIDABLE FRAGMENTS OF CLASSICA
LUCKHD-68A	NCESTRY FILTER	METHOD	IN AUTOMATIC DEMONSTRATION. =THE A
MASLOSJ68	THE INVERSE	METHOD	OF ESTABLISHING DEDUCTIBILITY FOR LOGICAL CALCULI. =
KANGES-63	MPLIFIED PCOF	METHOD	FOR FLEMENTARY LOGIC. =A SI
KUEHNDG71	S INVERSE	METHOD	=A NOTE ON THE RELATION BETWEEN RESOLUTION AND MASLOV'
CHEN-RH68	MEOREM-PROVING	METHOD	=SOME EXPERIMENTS WITH A COMPUTER REALIZATION OF A T
MASLOSJ64	AN INVERSE	METHOD	OF ESTABLISHING DEDUCTIBILITY IN CLASSICAL PREDICATE CALCULUS. =
KALLIB-68A	THE RESOLUTION	METHOD	=A DECISION PROCEDURE BASED ON
DAVYDGV69	ED ON INVERSE	METHOD	=A COMPUTER ALGORITHM FOR ESTABLISHING DEDUCTIBILITY, BAS
DAVYDGV67	A PCOF	METHOD	FOR THE CLASSICAL PREDICATE CALCULUS. =
DIXONJK70	AN IMPROVED	METHOD	FOR SOLVING DEDUCTIVE PROBLEMS ON A COMPUTER BY COMPILED AXIOMS. =
DIXONJK71	SPECIALIZER: A	METHOD	OF AUTOMATICALLY WRITING COMPUTER PROGRAMS. =THE
GILMOPC60	A PROOF	METHOD	FOR QUANTIFICATION THEORY. =
FITRAJ-66	UTILISANT DES	METHODES	HEURISTIQUES. =REALISATION DE PROGRAMMES DE DEMONSTRATION DE THEOREMS
MASLOSJ71	STRATEGIES FOR	METHODS	OF THE RESOLUTION TYPE. =PROOF-SEARCH
MASLOSJ69	INVERSE	METHODS	=A CONNECTION BETWEEN TACTICS OF THE RESOLUTION AND

POPPLRJ67
 NILSSNJ71
 CAHLIJL65
 BETH-E-62
 NILSSNJ69A
 KRIPKS-63
 KRIPKS-63A
 KANGES-57
 NOS--LT68A
 LOVELDW69A
 LOVELDW69
 LOVELDW68
 ELLICRW65
 WACKER-63
 CRAIGW-57A
 SLAGLJH65B
 SLAGLJR68
 SLAGLJR71B
 BING-K-69
 GOLOICJ69
 MASLOSJ67
 MANNAZ-68
 GUNHAB-59
 CHURCA-65
 MCCARJ-64
 BETH-EW63
 GOULDWE66
 ROBINJA70
 PRAWID-67
 PRAWID-68
 BLRSTRM70
 BLRSTRM70
 CREBEB-63
 GILMOPC59
 REITER-70A
 CAHLIJL64
 LEDEHJ-67
 KING-J-70
 ROBINJA65
 HAYESPJ69
 VANDERGJ71
 ROBINJA70A
 KLINGHE71
 ASHCKE-71
 NOS--LT68
 ROBINJA69
 ROBINJA69A
 KOWALK-68A
 CHANGCL70B
 MANNAZ-70A
 CAHLIJL71
 WANG-H-60A
 WANG-H-81
 HEWIT-C71
 MCCARJ-69
 AERODA-62
 HEWIT-C71

BETH-TREE
 ROBLEM-SOLVING
 MACHINE
 FORMAL
 A
 CONSIDERATIONS ON
 ANALYSIS OF
 TIFICATION AND
 THE MAXIMAL
 FORMAT FOR THE
 VERS COMBINING
 REM-PROVING BY
 A
 THE REDUCED
 EOREM RELATING
 A
 RIMENTS WITH A
 LEARNING FOR A
 A
 TY FOR
 CORRECTNESS OF
 A
 OF ELEMENTARY
 A TOUGH
 PROCEDURE FOR
 ANIZING HIGHER
 ATZ FOR SECOND
 TZ FOR HIGHER
 LOGIC IN FIRST
 NTICS OF FIRST
 M OF THE FIRST
 THIN THE FIRST
 TWO RESULTS ON
 TRANSLATING
 E INFERENCE IN
 INTERPRETATION
 A MACHINE
 A MACHINE
 AN
 A
 PROPERTIES OF
 AN
 A
 COMPLETENESS OF
 EXPOSITION OF
 RENAMABLE
 F PROGRAMS AND
 A
 NG THEOREMS BY
 NG THEOREMS BY
 MATCHLESS A
 SOME
 E
 VING FORMALISM

METHCDS
 METHODS
 METHODS
 METHODS
 MOBILE
 MODAL
 MODAL
 MODALITIES
 MODEL
 MODEL
 MODEL
 MODEL
 MODEL
 MODEL
 MODEL
 MULTIPURPOSE
 MULTIPURPOSE
 MULTIPURPOSE
 NATURAL
 NETS
 NONPHENEX
 NON-DETERMINISTIC
 NON-HEURISTIC
 NUMBER
 NUT
 OBSERVATIONS
 OMEGA-ORDER
 ORDER
 ORDER
 ORDER
 ORDER
 ORDER
 ORDER
 ORDER
 ORDERING
 ORDINARY
 ORGANIC
 ORIENTED
 ORIENTED
 ORIENTED
 OUTLINE
 OVERVIEW
 PARAUIGM
 PARALLEL
 PARAMODULATION
 PARAMODULATION
 PARAMODULATION
 PARAMODULATION
 PARTIAL
 PARTIAL
 PATTERN
 PATTERN
 PATTERN
 PHILOSOPHICAL
 PHILOSOPHY
 PLANNER

IN AUTOMATIC THEOREM-PROVING. =
 IN ARTIFICIAL INTELLIGENCE. =P
 FOR PROVING LOGICAL ARGUMENTS EXPRESSED IN ENGLISH. =
 =
 AUTOMATCH: AN APPLICATION OF ARTIFICIAL INTELLIGENCE TECHNIQUES. =
 LOGIC. =SEMANTICAL CON
 LOGIC I. =SEMANTIC
 =A NOTE ON QUAN
 THEOREM. =
 ELIMINATION THEOREM-PROVING PROCEDURE. =A SIMPLIFIED
 ELIMINATION AND RESOLUTION. =THEOREM-PRO
 ELIMINATION. =MECHANICAL THEO
 FOR A FACT RETRIEVAL SYSTEM. =
 FOR SATISFIABILITY FOR TWO DECIDABLE CLASSES OF FORMULAE IN THE PREDICATE CALC
 THEORY TO PROOF THEORY. =THREE USES OF THE HERBRAND-GENTZEN TH
 THEOREM PROVING, HEURISTIC PROGRAM THAT LEARNS. =
 THEOREM-PROVING HEURISTIC PROGRAM. =EXPE
 HEURISTIC PROGRAM. =EXPERIMENTS IN AUTOMATIC
 DEDUCTION WITH FEW RESTRICTIONS ON VARIABLES. =
 OF MARKS AND DEDUCIBILITY IN INTUITIONISTIC PROPOSITIONAL CALCULUS. =
 FORMULAS OF THE PREDICATE CALCULUS. =AN INVERSE METHOD OF ESTABLISHING DEDUCTIO
 PROGRAMS. =THE
 PROGRAM FOR PROVING ELEMENTARY LOGICAL THEOREMS. =
 THEORY. =AN UNSOLVABLE PROBLEM
 FOR PROOF PROCEDURES. =
 CONCERNING COMPUTING, DEDUCTION AND HEURISTICS. =
 LOGIC. =A MATCHING
 LOGIC. =A NOTE ON MECH
 LOGIC. =COMPLETENESS AND HAUPTS
 LOGIC. =HAUPTS
 LOGIC, AND APPLICATION TO PLANNING FOR ROBOTS. =FORMALISING SEMANTICS OF FIRS
 LOGIC IN FIRST ORDER LOGIC, AND APPLICATION TO PLANNING FOR ROBOTS. =FORMALISI
 PREDICATE CALCULUS: THE CLASSICAL CASES AND SOLVABLE SURANYI SUBCASES. =ON THE
 PREDICATE CALCULUS =A PROGRAM FOR THE PRODUCTION FROM AXIOMS OF PROOFS FOR THE
 FOR RESOLUTION WITH MERGING AND LINEAR FORMAT. =TWO RE
 LANGUAGE INTO SYMBOLIC LOGIC. =
 CHEMISTRY. =MECHANIZATION OF INDUCTIV
 THEOREM PROVER OVER INTEGERS. =AN
 LOGIC BASED ON THE RESOLUTION PRINCIPLE. =
 FORMULATION OF THE EXTENDED FUNCTIONAL CALCULUS. =
 RIRLIOGRAPHY, AND KWIC INDEX ON MECHANICAL THEOREM PROVING AND ITS APPLICATIO
 OF MECHANICAL THEOREM PROVING. =
 FOR REASONING BY ANALOGY. =
 PROGRAMS. =FORMALIZATION OF
 AND SET OF SUPPORT. =
 AND THEOREM-PROVING IN FIRST-ORDER THEORIES WITH EQUALITY. =
 =C
 WITH REFINEMENTS. =AN
 FOR AUTOMATIC THEOREM-PROVING WITH EQUALITY. =
 FUNCTION LOGIC. =PROPERTIES O
 MECHANIZATION OF SECOND-ORDER LOGIC. =
 RECOGNITION, I. =PROVI
 RECOGNITION, II. =PROVI
 DIRECTED LANGUAGE FOR THE THEOREM PROVING FORMALISM PLANNER. =
 PROBLEMS FROM THE STANDPOINT OF ARTIFICIAL INTELLIGENCE. =
 OF SCIENCE. =THE FOUNDATIONS OF MATHEMATICS, A STUDY IN TH
 =MATCHLESS A PATTERN DIRECTED LANGUAGE FOR THE THEOREM PRO

HEWIT-C71A	L EMBEDDING IN	PLANNER	=PROCEDURA
HEWITC-69		PLANNER	A LANGUAGE FOR PROVING THEOREMS IN ROBOTS. =
HURSTIN-70	APPLICATION TO	PLANNING	FOR ROBOTS. =FORMALISING SEMANTICS OF FIRST ORDER LOGIC IN FIRST ORDER LOGIC,
LOWENL-67	ON	POSSIBILITIES	IN THE CALCULUS OF RELATIVES. =
MELTZB-70		POWER	AMPLIFICATION FOR THEOREM-PROVERS. =
SLAGLJR70	UTION IN LOWER	PREDICATE	CALCULUS. =INTERPOLATION THEOREMS FOR RESOL
MANN-69		PREDICATE	CALCULUS. =PROPERTIES OF PROGRAMS AND THE FIRST-ORDER
GREVKVP68	S OF CLASSICAL	PREDICATE	CALCULUS.=TWO UNDECIDABLE FRAGMENT
MASLOSJ66	LASSICAL	PREDICATE	CALCULUS.=APPLICATION OF THE INVERSE METHOD OF ESTABLISHING DEDUCIBILITY TO T
NOHTOLM71	PROGRAM FOR	PREDICATE	CALCULUS WITH EQUALITY. =EXPERIMENTS WITH A HEURISTIC THEOREM-PROVING
NILSSNJ69		PREDICATE	CALCULUS THEOREM PROVING. =
HEITER-70	THE	PREDICATE	ELIMINATION STRATEGY IN THEOREM-PROVING. =
SANDEEU69	RMULAS IN	PREDICATE	CALCULUS. =A PROPERTY-LIST REPRESENTATION FOR CERTAIN FO
GREVKVP65	T OF CLASSICAL	PREDICATE	CALCULUS WITH FUNCTIONAL SYMBOLS.=A DECIDABLE FRAGMENT
MCCARJ-62		PREDICATE	CALCULUS WITH 'UNDEFINED' AS A TRUTH-VALUE. =
MASLOSJ64	CLASSICAL	PREDICATE	CALCULUS.=AN INVERSE METHOD OF ESTABLISHING DEDUCIBILITY IN
MASLOSJ67	ORNULAS OF THE	PREDICATE	CALCULUS.=AN INVERSE METHOD OF ESTABLISHING DEDUCTIBILITY FOR NONPRENEX F
CHREBH-63	HE FIRST ORDER	PREDICATE	CALCULUS: THE CLASSICAL CASES AND SOLVABLE SURANYI SUBCASES. =ON THE DECISION
COHENJ-70	MECRENS IN THE	PREDICATE	CALCULUS.=AN INTERACTIVE SYSTEM FOR PROVING T
CAVYUGV67	THE CLASSICAL	PREDICATE	CALCULUS. =A PROOF METHOD FOR
GILNOPC59	HE FIRST ORDER	PREDICATE	CALCULUS =A PROGRAM FOR THE PRODUCTION FROM AXIOMS OF PROOFS FOR THEOREMS DERI
BACKER-63	ORNULAE IN THE	PREDICATE	CALCULUS. =THE REDUCED MODEL FOR SATISFIABILITY FOR TWO DECIDABLE CLASSES OF F
MOS--LT64	THE UNIT	PREFERENCE	STRATEGY IN THEOREM PROVING. =
SLAGLJR65A	A PROPOSED	PREFERENCE	STRATEGY USING SUFFICIENCY-RESOLUTION FOR ANSWERING QUESTIONS. =
GODELK-67A	ROPOSITIONS OF	PRINCIPIA	MATHEMATICA AND RELATED SYSTEMS. =ON FORMALLY UNDECIDABLE P
ZAMOYNK69	THE RESOLUTION	PRINCIPLE	=ON A CLASS OF STRATEGIES WHICH CAN BE USED TO ESTABLISH DECIDABILITY BY
SMULLRN63	A UNIFYING	PRINCIPLE	IN QUANTIFICATION THEORY. =
KIEBUR-69	THE RESOLUTION	PRINCIPLE	=COMPATIBILITY OF REFINEMENTS OF
ROBINJA68	ZED RESOLUTION	PRINCIPLE	=THE GENERALI
LUCKHO-67	THE RESOLUTION	PRINCIPLE	IN THEOREM-PROVING. =THE RE
MEYNQJC68	ZED RESOLUTION	PRINCIPLE	BASED UPON CONTEXT-FREE GRAMMARS. =A GENERALI
ROBINJA65	THE RESOLUTION	PRINCIPLE	=A MACHINE ORIENTED LOGIC BASED ON
LEE--RC71	THE RESOLUTION	PRINCIPLE	=FUZZY LOGIC AND
CARLJL68	RESOLUTION	PRINCIPLE	=SOME THEOREM-PROVING STRATEGIES BASED ON THE
WANG-H-67	U THE DECISION	PROBLEM	=REMARKS ON MACHINES, SETS, AN
WANG-H-62	F THE DECISION	PROBLEM	=DOMINOES AND THE ACA CASE O
RAPHAB-70	THE FRAME	PROBLEM	IN PROBLEM-SOLVING SYSTEMS. =
FIKESR-71	PROVING TO	PROBLEM	SOLVING. =STRIPS: A NEW APPROACH TO THE APPLICATION OF THEOREM
FRIEDJ-63A	SE OF DECISION	PROBLEM	=COMPUTER PROGRAM FOR A SOLVABLE CA
CHURCA-65	AN UNSOLVABLE	PROBLEM	OF ELEMENTARY NUMBER THEORY. =
DIPACHA71	D THE DECISION	PROBLEM	FOR CLASSES OF PROPER FORMULAS. =THE RELATIONAL DATA FILE AN
CHREBH-63	N THE DECISION	PROBLEM	OF THE FIRST ORDER PREDICATE CALCULUS: THE CLASSICAL CASES AND SOLVABLE SURANY
DIPACHA69	F THE DECISION	PROBLEM	FOR THE CLASS OF DEFINITE FORMULAS. =THE RECURSIVE UNSOLVABILITY O
ACKERN-54	F THE DECISION	PROBLEM	=SOLVABLE CASES O
AMARES-67	H TO HEURISTIC	PROBLEM	SOLVING AND THEOREM-PROVING IN PROPOSITIONAL CALCULUS. =AN APPROAC
MCCARJ-69	PHILOSOPHICAL	PROBLEMS	FROM THE STANDPOINT OF ARTIFICIAL INTELLIGENCE. =SOME
FRANID-69	ADVANCES AND	PROBLEMS	IN MECHANICAL PROOF PROCEDURE. =
RAPHAB-71	MS AND RELATED	PROBLEMS	=ROBOT SYSTE
AMARES-68	ESENTATIONS OF	PROBLEMS	ON REASONING ABOUT ACTIONS. =REPR
DIJONUK70	VING DEDUCTIVE	PROBLEMS	ON A COMPUTER BY COMPILED AXIOMS. =AN IMPROVED METHOD FOR SOL
HOUESL-71	SOLVING	PROBLEMS	BY FORMULA MANIPULATION IN LOGIC AND LINEAR INEQUALITIES.=
GUINLJR68	RNAL DEDUCTIVE	PROBLEM-SOLVING	SYSTEM. =A FO
RAPHAB-70	AME PROBLEM IN	PROBLEM-SOLVING	SYSTEMS. =THE FR
NILSSNJ71		PROBLEM-SOLVING	METHODS IN ARTIFICIAL INTELLIGENCE. =
GREENCC69B	REM-PROVING TO	PROBLEM-SOLVING	=APPLICATION OF THEO
AMARES-62	AN APPROACH TO	PROBLEM-SOLVING	BY COMPUTER. =AN APP
HEWIT-C71A		PROCEDURAL	EMBEDDING IN PLANNER. =

PRAWID-60A	IMPROVED PROOF	PROCEDURE	=AN
PRAWID-69	CHANICAL PROOF	PROCEDURE	=ADVANCES AND PROBLEMS IN ME
KALLIB-68A	A DECISION	PROCEDURE	BASED ON THE RESOLUTION METHOD, =
LOVELDW68A	THEOREM-PROVING	PROCEDURE	=A SIMPLIFIED FORMAT FOR THE MODEL ELIMINATION T
PRAWID-60	CHANICAL PROOF	PROCEDURE	AND ITS REALIZATION IN AN ELECTRONIC COMPUTER. =A ME
GUINFW55	A PROOF	PROCEDURE	FOR QUANTIFICATION THEORY. =
FRIEDJ-63	SEMI-DECISION	PROCEDURE	FOR THE FUNCTIONAL CALCULUS. =A
GOULDWE66	A WATCHING	PROCEDURE	FOR OMEGA-ORDER LOGIC. =
FRIEDJ-65	OF A DECISION	PROCEDURE	IN LOGIC. =COMPUTER REALIZATION
DAVISM-60	A COMPUTING	PROCEDURE	FOR QUANTIFICATION THEORY. =
LOVELDW71	HERBAND PROOF	PROCEDURES	AN ANALYSIS. =SCHE LINEAR
MELTZB-71	ENCY OF PROOF	PROCEDURES	=PROLEGOMENA TO A THEORY OF EFFIC
KALLIB-68	PROOF	PROCEDURES	AND DECISION PROCEDURES BASED ON THE RESOLUTION METHOD. =
MCCARJ-64	NUT FOR PROOF	PROCEDURES	=A TOUGH
KALLIB-68	S AND DECISION	PROCEDURES	BASED ON THE RESOLUTION METHOD. =PROOF PROCEDURE
COOK-SA71	THEOREM-PROVING	PROCEDURES	=THE COMPLEXITY OF T
ROBINJA67B	C AND COMPLETE	PROCESSES	IN THE MECHANIZATION OF THEOREM-PROVING. =HEURISTIC
GILMOPC59	PROGRAM FOR THE	PRODUCTION	FROM AXIOMS OF PROOFS FOR THEOREMS DERIVABLE WITHIN THE FIRST ORDER PREDICATE
SLAGLJR71B	HEURISTIC	PROGRAM	=EXPERIMENTS IN AUTOMATIC LEARNING FOR A MULTIPURPOSE
WALDIRJ69A	WARD AUTOMATIC	PROGRAM	WRITING. =PROV: A STEP TO
TRAVILG64	OREM UTILIZING	PROGRAM	=EXPERIMENTS WITH A THE
SLAGLJR65B	ING, HEURISTIC	PROGRAM	THAT LEARNS. =A MULTIPURPOSE, THEOREM PROV
NAPHAB-64	A COMPUTER	PROGRAM	WHICH 'UNDERSTANDS.' =
PARK-D-70	AND PROOFS OF	PROGRAM	PROPERTIES. =FIXPOINT INDUCTION
PITRAJ-65	ALIZATION OF A	PROGRAM	WHICH CHOOSES THE THEOREMS IT PROVES. =RE
NCHTOLM71	THEOREM-PROVING	PROGRAM	FOR PREDICATE CALCULUS WITH EQUALITY. =EXPERIMENTS WITH A HEURISTIC T
NCHTOLM64	- A HEURISTIC	PROGRAM	FOR PROVING THEOREMS OF GROUP THEORY. =ADEPT
NAPHAB-64A	IR: A COMPUTER	PROGRAM	FOR SEMANTIC INFORMATION RETRIEVAL. =S
KING-J-69	A	PROGRAM	VERIFIER. =
SLAGLJR68	HEURISTIC	PROGRAM	=EXPERIMENTS WITH A MULTIPURPOSE, THEOREM-PROVING
ROBINJA61	THEOREM-PROVING	PROGRAM	FOR THE IBM 704. =A GENERAL T
SLAGLJR65	TION-ANSWERING	PROGRAM	=EXPERIMENTS WITH A DEDUCTIVE QUES
MANNAZ-70	ARDS AUTOMATIC	PROGRAM	SYNTHESIS. =TOW
LEE--RC67	AND A COMPUTER	PROGRAM	FOR FINDING THEOREMS DERIVABLE FROM GIVEN AXIOMS. =A COMPLETENESS THEOREM
COCPEDC71	FOR MECHANICAL	PROGRAM	VERIFICATION. =PROGRAMS
GILMOPC59	A	PROGRAM	FOR THE PRODUCTION FROM AXIOMS OF PROOFS FOR THEOREMS DERIVABLE WITHIN THE FIR
GAHLJL62	A CONIT	PROGRAM	FOR THE DAVIS-PUTNAM ALGORITHM. =
BUKSTRN70A	DESCRIPTION OF	PROGRAM	STRUCTURE AND SEMANTICS IN FIRST-ORDER LOGIC. =FORMAL
DAVISM-62	A MACHINE	PROGRAM	FOR THEOREM-PROVING. =
FRIEDJ-63A	COMPUTER	PROGRAM	FOR A SOLVABLE CASE OF DECISION PROBLEM. =
ALLENJ-70	THEOREM-PROVING	PROGRAM	=AN INTERACTIVE T
QUHAB-59	NON-HEURISTIC	PROGRAM	FOR PROVING ELEMENTARY LOGICAL THEOREMS. =A
PITRAJ-66	REALISATION DE	PROGRAMMES	DE DEMONSTRATION DE THEOREMS UTILISANT DES METHODES HEURISTIQUES. =REALIS
SLAGLJR71C	THE HEURISTIC	PROGRAMMING	APPROACH. =ARTIFICIAL INTELLIGENCE:
NAPHAB-68		PROGRAMMING	A ROBOT. =
WALDIRJ69	CONSTRUCTING	PROGRAMS	AUTOMATICALLY USING THEOREM PROVING. =
MANNAZ-69A	CORRECTNESS OF	PROGRAMS	=THE
MCCARJ-68		PROGRAMS	WITH COMMON SENSE. =
MANNAZ-70A	PROPERTIES OF	PROGRAMS	AND PARTIAL FUNCTION LOGIC. =
MANNAZ-70B	OF FUNCTIONAL	PROGRAMS	=FORMALIZATION OF PROPERTIES
MANNAZ-69	PROPERTIES OF	PROGRAMS	AND THE FIRST-ORDER PREDICATE CALCULUS. =
MANNAZ-68	-DETERMINISTIC	PROGRAMS	=THE CORRECTNESS OF NON
DIXONJK71	TING COMPUTER	PROGRAMS	=THE SPECIALIZER: A METHOD OF AUTOMATICALLY WR
ASHCRE-71	ES OF PARALLEL	PROGRAMS	=FORMALIZATION OF PROPERTI
BUKSTRN69	PROPERTIES OF	PROGRAMS	BY STRUCTURAL INDUCTION. =PROVING
COCPEDC71		PROGRAMS	FOR MECHANICAL PROGRAM VERIFICATION. =
MELTZB-71		PROLEGOMENA	TO A THEORY OF EFFICIENCY OF PROOF PROCEDURES. =

MCCAHJ-64
PRAWID-69
TAKAHM-67
PRAWID-60
GUINEWV55
SKOLET-67
FRAWID-60A
MELTZB-71
LOVELDW71
LUCKHD-70
NAPHAB-69
CHAIGW-57A
KALLIB-68
HERERJ-67
CHANGCL70A
KANGES-63
CHANGCL70A
GILMOPC60
CAVYDGV67
BLEDSWH71A
WOS--LT65A
SLAGLJR71A
PARK-D-70
GILMOPC59
DAVISM-63
CANTRRG69
NASLOSJ71
QIPARA71
PLOWAZ-70B
FLATKGD70
PARK-D-70
MANNAZ-69
MANNAZ-70A
LEE--HC70
ASHMCKE-71
BUYSTRM65
HAIT-TP65
SANDEEJ69
SLAGLJR65A
AMARES-67
GLLOTJJ69
SKOLET-67
GODELK-67A
SKOLET-67
KING-J-70
BRICEC-71
CARLIJL69A
FITRAJ-65
WANG-H-61
WOS--LT64
WOS--LT64
WOCMGH71
WOS--LT65
SLAGLJR65B
NORTLOS69
NILSSNJ69
WALDIRJ69

TOUGH NUT FOR
IN MECHANICAL
A
A MECHANICAL
A
A SIMPLIFIED
AN IMPROVED
EFFICIENCY OF
INEAR HENBRAND
ROM RESOLUTION
RESULTS ABOUT
EL THEORY TO
ESTIGATIONS IN
THE UNIT
A SIMPLIFIED
AND THE INPUT
A
A
COMPUTER
GENERATION OF
ING RESOLUTION
INDUCTION AND
FROM AXIOMS OF
ROM MECHANICAL
TIC RESOLUTION
CLASSES OF
RMALIZATION OF
TICE THEORETIC
OFS OF PROGRAM
SOME
RMALIZATION OF
PROVING
EFUL ALGEBRAIC
A
A
REM-PROVING IN
TIC
F MATHEMATICAL
LY UNDECIDABLE
FIABILITY OR
IENTED THECREM
THECREM
THECREM
EMS IT
EGY IN THECREM
SOME THECREM
THEOREM
EGY IN THECREM
RPOSE, THECREM
IC PROGRAM FOR
LCULUS THECREM
USING THECREM

[illegible]

PROCEDURES. =A
PROCEDURE. =ADVANCES AND PROBLEMS
OF CUT-ELIMINATION IN SIMPLE TYPE THEORY. =
PROCEDURE AND ITS REALIZATION IN AN ELECTRONIC COMPUTER, =
PROCEDURE FOR QUANTIFICATION THEORY. =
OF A THEOREM BY L. LOWENHEIM, GENERALIZ. THEOREM. =LOGICO-COMBINATIONAL INVEST
PROCEDURE. =
PROCEDURES. =PROLEGOMENA TO A THEORY OF
PROCEDURES: AN ANALYSIS. =SOME L
TREES. =EXTRACTING INFORMATION F
BY RESOLUTION. =SOME
THEORY. =THREE USES OF THE HERBRAND-GENTZEN THEOREM RELATING MOD
PROCEDURES AND DECISION PROCEDURES BASED ON THE RESOLUTION METHOD. =
THEORY. =INV
AND THE INPUT PROOF IN THEOREM PROVING. =
METHOD FOR ELEMENTARY LOGIC. =
IN THEOREM PROVING. =THE UNIT PROOF
METHOD FOR QUANTIFICATION THEORY. =
METHOD FOR THE CLASSICAL PREDICATE CALCULUS. =
OF LIMIT THEOREMS. =
IN THE LANGUAGE OF MATHEMATICS. =AUTOMATIC
AND USING DUPLICATE GOALS IN AND/OR TREES. =FIND
OF PROGRAM PROPERTIES. =FIXPOINT
FOR THEOREMS DERIVABLE WITHIN THE FIRST ORDER PREDICATE CALCULUS =A PROGRAM FO
=ELIMINATING THE IRRELEVANT F
BASED UPON BINARY SEMANTIC TREES. =EFFICIENT MAXIMAL SEMAN
STRATEGIES FOR METHODS OF THE RESOLUTION TYPE. =
FORMULAS. =THE RELATIONAL DATA FILE AND THE DECISION PROBLEM FOR
OF FUNCTIONAL PROGRAMS. =FO
OF SUPPOSITION. =LAT
=FIXPOINT INDUCTION AND PRO
OF PROGRAMS AND THE FIRST-ORDER PREDICATE CALCULUS. =
OF PROGRAMS AND PARTIAL FUNCTION LOGIC. =
OF FUZZY LOGIC. =
OF PARALLEL PROGRAMS. =FO
OF PROGRAMS BY STRUCTURAL INDUCTION. =
OF ROBINSON'S UNIFICATION ALGORITHM. =A US
REPRESENTATION FOR CERTAIN FORMULAS IN PREDICATE CALCULUS. =
PREFERENCE STRATEGY USING SUFFICIENCY-RESOLUTION FOR ANSWERING QUESTIONS. =
CALCULUS. =AN APPROACH TO HEURISTIC PROBLEM SOLVING AND THEO
CALCULUS. =NETS OF MARKS AND DEDUCIBILITY IN INTUITIONIS
A SIMPLIFIED PROOF OF A THEOREM BY L. LOWENHEIM, GENERALIZ. THEOREM. =LOGICO-
OF PRINCIPIA MATHEMATICA AND RELATED SYSTEMS. =ON FORMAL
OF MATHEMATICAL PROPOSITIONS: A SIMPLIFIED PROOF OF A THEOREM BY L. LOWENHEIM,
OVER INTEGERS. =AN INTERPRETATION OR
=A HEURISTICALLY GUIDED EQUALITY RULE IN A RESOLUTION
AS QUESTION ANSWERERS. =
=REALIZATION OF A PROGRAM WHICH CHOOSES THE THEOR
THEOREMS BY PATTERN RECOGNITION, II. =
=THE UNIT PREFERENCE STRAT
STRATEGIES AND THEIR IMPLEMENTATION. =
=A DEFINITIONALLY EXTENDIBLE TYPE-LOGIC FOR MECHANICAL
=EFFICIENCY AND COMPLETENESS OF THE SET OF SUPPORT STRAT
HEURISTIC PROGRAM THAT LEARNS. =A MULTIPU
THEOREMS OF GROUP THEORY. =ADEPT - A HEURIST
=PREDICATE CA
=CONSTRUCTING PROGRAMS AUTOMATICALLY

ROBINJA70A	ANICAL THEOREM	PROVING	=AN OVERVIEW OF MECH
ROBINA-57		PROVING	THEOREMS, AS DONE BY MAN, MACHINE AND LOGICIAN. =
LUCKPD-68	IES IN THEOREM	PROVING	=SOME TREE-PARING STRATF
MELTZB-65	THEOREM	PROVING	FOR COMPUTERS. =
ROBINJA67	OMATIC THEOREM	PROVING	=A REVIEW OF AUT
VANDERGJ71	THEOREM	PROVING	AND ITS APPLICATIONS. =OUTLINE, BIBLIOGRAPHY, AND KWIC INDEX ON MECHANICAL
MELTZB-69	BOLIC LOGIC IN	PROVING	MATHEMATICAL THEOREMS BY MEANS OF A DIGITAL COMPUTER. =THE USE OF SYM
SLAGLJR67	OMATIC THEOREM	PROVING	WITH RENAMABLE AND SEMANTIC RESOLUTION. =AUT
ROBINJA68A	ANICAL THEOREM	PROVING	=NEW DIRECTIONS IN MECH
WANG-H-60A		PROVING	THEOREMS BY PATTERN RECOGNITION, I. =
KLINGRE69	THEOREM	PROVING	BY ANALOGY WITH APPLICATIONS TO RESOLUTION LOGIC. =
CARLIJL69	THEOREM	PROVING	AND INFORMATION RETRIEVAL. =
CARLIJL68A	OMATIC THEOREM	PROVING	WITH EQUALITY SUBSTITUTIONS AND MATHEMATICAL INDUCTION. =AUT
CARLIJL65	NE METHODS FOR	PROVING	LOGICAL ARGUMENTS EXPRESSED IN ENGLISH. =MACHI
COHENJ-70	IVE SYSTEM FOR	PROVING	THEOREMS IN THE PREDICATE CALCULUS. =AN INTERACT
COOPEDC66	THEOREM	PROVING	IN COMPUTERS. =
CHANGCL70A	OOF IN THEOREM	PROVING	=THE UNIT PROOF AND THE INPUT PR
CHANGCL71A	THEOREM	PROVING	WITH VARIABLE-CONSTRAINED RESOLUTION. =
FIKESR-71	THEOREM	PROVING	TO PROBLEM SOLVING. =STRIPS: A NEW APPROACH TO THE APPLICATION OF
BUNSTRM69		PROVING	PROPERTIES OF PROGRAMS BY STRUCTURAL INDUCTION. =
BLEDSDW71	IC THEOREM	PROVING	=SPLITTING AND REDUCTION HEURISTICS IN AUTOMAT
CUNHAB-59	IC PROGRAM FOR	PROVING	ELEMENTARY LOGICAL THEOREMS. =A NON-HEURIST
HENSCLJ68	OMATED THEOREM	PROVING	=SOME NEW RESULTS ON RESOLUTION IN AUT
GREENCC68	USE OF THEOREM	PROVING	TECHNIQUES IN QUESTION-ANSWERING SYSTEMS. =THE
HEWITC-69	A LANGUAGE FOR	PROVING	THEOREMS IN ROBOTS. =PLANNER:
HEWITC-71	THEOREM	PROVING	FORMALISM PLANNER. =MATCHLESS A PATTERN DIRECTED LANGUAGE FOR THE
WALDIRJ69A		PROVING	A STEP TOWARD AUTOMATIC PROGRAM WRITING. =
GARVETD69	USERS GUIDE TO	QA	3.5 QUESTION-ANSWERING SYSTEM. =USERS
SMULLRM63	G PRINCIPLE IN	QUANTIFICATION	THEORY. =A UNIFYIN
KUHNSJL71		QUANTIFICATION	IN QUERY SYSTEMS. =
GUINEWV55	PROCEDURE FOR	QUANTIFICATION	THEORY. =A PROOF
KANGES-57	A NOTE ON	QUANTIFICATION	AND MODALITIES. =
GILMOPC60	OOF METHOD FOR	QUANTIFICATION	THEORY. =A PR
CREBER-52	OMPLETENESS OF	QUANTIFICATION	THEORY. =ON THE C
CAVISM-60	PROCEDURE FOR	QUANTIFICATION	THEORY. =A COMPUTING
KUHNSJL71	NTIFICATION IN	QUERY	SYSTEMS. =QUA
GREENCC67	ON INTELLIGENT	QUESTION	ANSWERING SYSTEMS. =RESEARCH
CARLIJL69A	REM PROVERS AS	QUESTION	ANSWERS. =THEO
SLAGLJR65A	FOR ANSWERING	QUESTIONS	=A PROPOSED PREFERENCE STRATEGY USING SUFFICIENCY-RESOLUTION
SLAGLJR65	ITH A DEDUCTIVE	QUESTION-ANSWERING	PROGRAM. =EXPERIMENTS W
GREENCC69A		QUESTION-ANSWERING	SYSTEMS. =THEOREM-PROVING BY RESOLUTION AS A BASIS FOR
BLACKF-64	A DEDUCTIVE	QUESTION-ANSWERING	SYSTEM. =
FISHMDH70	S TO	QUESTION-ANSWERING	SYSTEMS. =THE APPLICATION OF THEOREM-PROVING TECHNIQUE
GREENCC69	OREM-PROVING TO	QUESTION-ANSWERING	SYSTEMS. =THE APPLICATION OF THE
GARVETD69	GUIDE TO QA 3.5	QUESTION-ANSWERING	SYSTEM. =USERS
COOPESW64	L AND DEDUCTIVE	QUESTION-ANSWERING	INFORMATION RETRIEVAL SYSTEMS. =FACT RETRIEVA
GREENCC68	IN	QUESTION-ANSWERING	SYSTEMS. =THE USE OF THEOREM PROVING TECHNIQUES
PITRAJ-66		REALISATION	DE PROGRAMMES DE DEMONSTRATION DE THEOREMS UTILISANT DES METHODES HEURISTIQUES
QWEN-RH68	ITH A COMPUTER	REALIZATION	OF A THEOREM-PROVING METHOD. =SOME EXPERIMENTS W
FRAWID-60	CEUDRE AND ITS	REALIZATION	IN AN ELECTRONIC COMPUTER. =A MECHANICAL PROOF PRO
PITRAJ-65		REALIZATION	OF A PROGRAM WHICH CHOOSES THE THEOREMS IT PROVES. =
GELEKH-63		REALIZATION	OF A GEOMETRY-THEOREM-PROVING MACHINE. =
FRIEDJ-65	COMPUTER	REALIZATION	OF A DECISION PROCEDURE IN LOGIC. =
AMARES-68	OF PROBLEMS OF	REASONING	ABOUT ACTIONS. =REPRESENTATIONS
KLINGRE71	A PARADIGM FOR	REASONING	BY ANALOGY. =A PARA
CRAIGW-57	LINEAR	REASONING	A NEW FORM OF THE HERBRAND-GENTZEN THEOREM. =
MELTZB-66A	SOME	RECENT	DEVELOPMENTS IN COMPLETE STRATEGIES FOR THEOREM-PROVING BY COMPUTER. =

WANG-H-60A	EMS BY PATTERN	RECOGNITION	I. =PROVING THEOR
WANG-H-61	EMS BY PATTERN	RECOGNITION	II. =PROVING THEOR
DIPAORA69	THE	RECURSIVE	UNSOVLVABILITY OF THE DECISION PROBLEM FOR THE CLASS OF DEFINITE FORMULAS. =
BACKER-63	THE	REDUCED	MODEL FOR SATISFIABILITY FOR TWO DECIDABLE CLASSES OF FORMULAE IN THE PREDICAT
KAMR-AS62	IDUNGS-PROBLEM	REDUCED	TO THE AEA CASE. =FNTSCHE
BLEDSW71	SPLITTING AND	REDUCTION	HEURISTICS IN AUTOMATIC THEOREM PROVING. =
LUCKHD-69		REFINEMENT	THEOREMS IN RESOLUTION THEORY. =
LUCKHD-70A		REFINEMENTS	IN RESOLUTION THEORY. =
KOWALR-68A	MODULATION WITH	REFINEMENTS	=AN EXPOSITION OF PARAM
KIEBUR-69	MPATIBILITY OF	REFINEMENTS	OF THE RESOLUTION PRINCIPLE. =CO
CHANGCL71	NESS OF LINEAR	REFUTATION	FOR THEORIES WITH EQUALITY. =COMPLETE
MORRIJB69	EQUALITY	RELATION	=E-RESOLUTION: EXTENSION OF RESOLUTION TO INCLUDE THE
KUEHNDG71	A NOTE ON THE	RELATION	BETWEEN RESOLUTION AND MASLOV'S INVERSE METHOD. =
SIBEE69	UALITY	RELATION	=A MACHINE-ORIENTED LOGIC INCORPORATING THE EQ
MINKEJ-70		RELATIONAL	DATA SYSTEM STUDY. =
DIPAORA71	THE	RELATIONAL	DATA FILE AND THE DECISION PROBLEM FOR CLASSES OF PROPER FORMULAS. =
LOWENL-67	HE CALCULUS OF	RELATIVES	=ON POSSIBILITIES IN T
WANG-H-67		REMARKS	ON MACHINES, SETS, AND THE DECISION PROBLEM. =
SLAGLJR67	M PROVING WITH	RENAMABLE	AND SEMANTIC RESOLUTION. =AUTOMATIC THEORE
CHANGCL70B		RENAMABLE	PARAMODULATION FOR AUTOMATIC THEOREM-PROVING WITH EQUALITY. =
MELTZB-66	SOLUTION AND	RENAMING	=THEOREM-PROVING FOR COMPUTERS: SOME RESULTS ON RE
SANDEJ69	PROPERTY-LIST	REPRESENTATION	FOR CERTAIN FORMULAS IN PREDICATE CALCULUS. =A
ANARES-68		REPRESENTATIONS	OF PROBLEMS OF REASONING ABOUT ACTIONS. =
GREENCC67		RESEARCH	ON INTELLIGENT QUESTION ANSWERING SYSTEMS. =
ZAMOYNK69	ABILITY BY THE	RESOLUTION	PRINCIPLE. =ON A CLASS OF STRATEGIES WHICH CAN BE USED TO ESTABLISH DECID
YATESR-70		RESOLUTION	GRAPHS. =
ROBINJA68	HE GENERALIZED	RESOLUTION	PRINCIPLE. =T
LOVELDW68A	EAR FORMAT FOR	RESOLUTION	=A LIN
SLAGLJR70	N THEOREMS FOR	RESOLUTION	IN LOWER PREDICATE CALCULUS. =INTERPOLATIO
MORRIJB69	: EXTENSION OF	RESOLUTION	TO INCLUDE THE EQUALITY RELATION =E-RESOLUTION
LUCKHD-69	NT THEOREMS IN	RESOLUTION	THEORY. =REFINEME
LUCKHD-67	THE	RESOLUTION	PRINCIPLE IN THEOREM-PROVING. =
MELTZB-68	SOME NOTES ON	RESOLUTION	STRATEGIES. =
MELTZB-66	OME RESULTS ON	RESOLUTION	AND RENAMING. =THEOREM-PROVING FOR COMPUTERS: S
LUCKHD-70A	REFINEMENTS IN	RESOLUTION	THEORY. =REFINE
LOVELDW69	ELIMINATION AND	RESOLUTION	=THEOREM-PROVERS COMBINING MODEL E
SLAGLJR67	SEMANTIC	RESOLUTION	=AUTOMATIC THEOREM PROVING WITH RENAMABLE AND
SLAGLJR71A	FINDING	RESOLUTION	PROOFS AND USING DUPLICATE GOALS IN AND/OR TREES. =
ROBINJA65	C BASED ON THE	RESOLUTION	PRINCIPLE. =A MACHINE ORIENTED LOGI
SLAGLJR69	S FOR SEMANTIC	RESOLUTION	IN CONSEQUENCE-FINDING. =COMPLETENESS THEOREM
MASLOSJ71	METHODS OF THE	RESOLUTION	TYPE. =PROOF-SEARCH STRATEGIES FOR
MASLOSJ69	TACTICS OF THE	RESOLUTION	AND INVERSE METHODS. =A CONNECTION BETWEEN
REITER-70A	N ORDERING FOR	RESOLUTION	WITH MERGING AND LINEAR FORMAT. =TWO RESULTS O
RAFHAB-69	ABOUT PROOF BY	RESOLUTION	=SOME RESULTS
LUCKHD-70	FORMATION FROM	RESOLUTION	PROOF TREES. =EXTRACTING IN
LEE-HC71	LOGIC AND THE	RESOLUTION	PRINCIPLE. =FUZZY
REYNOC68	A GENERALIZED	RESOLUTION	PRINCIPLE BASED UPON CONTEXT-FREE GRAMMARS. =
KIEBUR-69	NEMENTS OF THE	RESOLUTION	PRINCIPLE. =COMPATIBILITY OF REFI
CANTHRG69	XIMAL SEMANTIC	RESOLUTION	PROOFS BASED UPON BINARY SEMANTIC TREES. =EFFICIENT MA
KALLIH-68A	E BASED ON THE	RESOLUTION	METHOD. =A DECISION PROCEDUR
KUEHNDG71	LATION BETWEEN	RESOLUTION	AND MASLOV'S INVERSE METHOD. =A NOTE ON THE RE
CHANGCL71A	LE-CONSTRAINED	RESOLUTION	=THEOREM PROVING WITH VARIAB
HENSCLJ69		RESOLUTION	MERGING, SET OF SUPPORT AND TAUTOLOGIES. =
KLINGRE69	TO	RESOLUTION	LOGIC. =THEOREM PROVING BY ANALOGY WITH APPLICATIONS
CARLIJL68	S BASED ON THE	RESOLUTION	PRINCIPLE. =SOME THEOREM-PROVING STRATEGIE
KOWALR-70C	LINEAR	RESOLUTION	WITH SELECTION FUNCTION. =
ANDERR-70A	EAR FORMAT FOR	RESOLUTION	WITH MERGING AND A NEW TECHNIQUE FOR ESTABLISHING COMPLETENESS. =A LIN

ANDREP870		RESOLUTION	IN TYPE THEORY, =
ANDREP868		RESOLUTION	WITH MERGING, =
KALLIB-68	D ON THE	RESOLUTION	METHOD, =PROOF PROCEDURES AND DECISION PROCEDURES BASE
GREENCC69A	REM-PROVING BY	RESOLUTION	AS A BASIS FOR QUESTION-ANSWERING SYSTEMS, =THEO
HENSCLJ68	NEW RESULTS ON	RESOLUTION	IN AUTOMATED THEOREM PROVING, =SOME
BRICEC-71	LITY RULE IN A	RESOLUTION	THEOREM PROVER, =A HEURISTICALLY GUIDED EQUA
KOWALR-70A	REM-PROVING BY	RESOLUTION	=STUDIES IN THE COMPLETENESS AND EFFICIENCY OF THEO
BROWNTC68		RESOLUTION	WITH COVERING STRATEGIES AND EQUALITY THEORY, =
BURSTRM68	FOR A	RESOLUTION	THEOREM-PROVER, =A SCHEME FOR INDEXING AND RETRIEVING CLAUSES
BING-K-69	CTION WITH FEW	RESTRICTIONS	ON VARIABLES, =NATURAL DEDU
MELTZB-66	OMPUTERS: SOME	RESULTS	ON RESOLUTION AND RENAMING, =THEOREM-PROVING FOR C
RAPHAB-69	SOME	RESULTS	ABOUT PROOF BY RESOLUTION, =
REITER-70A	TWO	RESULTS	ON ORDERING FOR RESOLUTION WITH MERGING AND LINEAR FORMAT, =
HENSCLJ68	SOME NEW	RESULTS	ON RESOLUTION IN AUTOMATED THEOREM PROVING, =
ANDERR-70	COMPLETENESS	RESULTS	FOR E-RESOLUTION, =
RAPHAB-64A	IC INFORMATION	RETRIEVAL	=SIR: A COMPUTER PROGRAM FOR SEMANT
ELLIORW65	DEL FOR A FACT	RETRIEVAL	SYSTEM, =A NO
CARLIJL69	NO INFORMATION	RETRIEVAL	=THEOREM PROVING A
COOPEWS64	INFORMATION	RETRIEVAL	SYSTEMS, =FACT RETRIEVAL AND DEDUCTIVE QUESTION-ANSWERING
COOPEWS64	FACT	RETRIEVAL	AND DEDUCTIVE QUESTION-ANSWERING INFORMATION RETRIEVAL SYSTEMS, =
BURSTRM68	R INDEXING AND	RETRIEVING	CLAUSES FOR A RESOLUTION THEOREM-PROVER, =A SCHEME FO
ROBINJA67	A	REVIEW	OF AUTOMATIC THEOREM PROVING, =
HART-TP65	IC PROPERTY OF	ROBINSON'S	UNIFICATION ALGORITHM, =A USEFUL ALGEBRA
RAPHAB-71		ROBOT	SYSTEMS AND RELATED PROBLEMS, =
RAPHAB-68		ROBOT	=
HEWITC-69	PROGRAMMING A	ROBOTS	=PLANNER: A LANGUAGE FOR PROVI
BURSTRM70	NG THEOREMS IN	ROBOTS	=FORMALISING SEMANTICS OF FIRST ORDER LOGIC IN FIRST ORDER LOGIC, AND APPLICA
BRICEC-71	O PLANNING FOR	RULE	IN A RESOLUTION THEOREM PROVER, =A HEURISTICALLY G
BENNEJH64A	UIDED EQUALITY	SAM	IV, =SEMI-AUTOMATE
BENNEJH64	U MATHEMATICS:	SAM	III, =TOWARD SEMI-AUTOMATED MATHEMATICS: THE LANGUAGE
SKOLET-67	AND LOGIC OF	SATISFIABILITY	OR PROVABILITY OF MATHEMATICAL PROPOSITIONS: A SIMPLIFIED PROOF OF A THEOREM
BACKEP-63	GATIONS IN THE	SATISFIABILITY	FOR TWO DECIDABLE CLASSES OF FORMULAE IN THE PREDICATE CALCULUS, =THE RED
BURSTRM68	UCED MODEL FOR	SCHEME	FOR INDEXING AND RETRIEVING CLAUSES FOR A RESOLUTION THEOREM-PROVER, =
NERODA-62	A	SCIENCE	=THE FOUNDATIONS OF MATHEMATICS, A STUDY IN THE
NEWELA-65	PHILOSOPHY OF	SEARCH	FOR GENERALITY, =
SIKLOL-71	THE	SEARCH	=HEURISTIC SEARCH
SIKLOL-71	VS. EXHAUSTIVE	SEARCH	VS. EXHAUSTIVE SEARCH, =
KOWALR-70	HEURISTIC	SEARCH	STRATEGIES FOR THEOREM-PROVING, =
CARLIJL71		SECOND-ORDER	LOGIC, =A PARTIAL ME
KOWALR-70C	CHANIZATION OF	SELECTION	FUNCTION, =LINEAR P
SLAGLJR67	ESOLUTION WITH	SEMANTIC	RESOLUTION, =AUTOMATIC THEOREM PROVING WITH
RAPHAB-64A	RENAMABLE AND	SEMANTIC	INFORMATION RETRIEVAL, =SIR: A COMPUT
SLAGLJR69	ER PROGRAM FOR	SEMANTIC	RESOLUTION IN CONSEQUENCE-FINDING, =COMPLETENES
KOWALR-69	S THEOREMS FOR	SEMANTIC	TREES IN AUTOMATIC THEOREM-PROVING, =
CANTHRG69		SEMANTIC	RESOLUTION PROOFS BASED UPON BINARY SEMANTIC TREES, =EFF
CANTHRG69	ICIENT MAXIMAL	SEMANTIC	TREES, =EFFICIENT MAXIMAL SEMANTIC RESOLUTION PROOFS BASED U
KRIPKS-63	PON BINARY	SEMANTICAL	CONSIDERATIONS ON MODAL LOGIC, =
KRIPKS-63A		SEMANTICS	ANALYSIS OF MODAL LOGIC I, =
BURSTRM70A	STRUCTURE AND	SEMANTICS	IN FIRST-ORDER LOGIC, =FORMAL DESCRIPTION OF PROGRAM
BURSTRM70	FORMALISING	SEMANTICS	OF FIRST ORDER LOGIC IN FIRST ORDER LOGIC, AND APPLICATION TO PLANNING FOR ROB
GUARDJK64	ATED LOGIC FOR	SEMI-AUTOMATED	MATHEMATICS, =AUTOM
GUARDJK69		SEMI-AUTOMATED	MATHEMATICS, =
BENNEJH64A		SEMI-AUTOMATED	MATHEMATICS: SAM IV, =
BENNEJH63	NTRODUCTION TO	SEMI-AUTOMATED	MATHEMATICS, =I
BENNEJH64	TOWARD	SEMI-AUTOMATED	MATHEMATICS: THE LANGUAGE AND LOGIC OF SAM III, =
BENNEJH67	CRT-AIDED	SEMI-AUTOMATED	MATHEMATICS, =
FRIEDJ-63	A	SEMI-DECISION	PROCEDURE FOR THE FUNCTIONAL CALCULUS, =

MCCARJ-68	MS WITH COMMON	SENSE	=PROGRA
WOS--LT65	ETENESS OF THE	SET	OF SUPPORT STRATEGY IN THEOREM PROVING. =EFFICIENCY AND COMPL
WOS--LT68	MODULATION AND	SET	OF SUPPORT. =PARA
HENSCLJ69	TION, MERGING,	SET	OF SUPPORT AND TAUTOLOGIES. =RESOLU
WANG-H-67	S ON MACHINES,	SETS	AND THE DECISION PROBLEM. =REMARK
TAKAHN-67	ELIMINATION IN	SIMPLE	TYPE THEORY. =A PROOF OF CUT-
KEMENJG53	THE USE OF	SIMPLICITY	IN INDUCTION. =
SKOLET-67	ROPOSITIONS: A	SIMPLIFIED	PROOF OF A THEOREM BY L. LOWENHEIM, GENERALIZ. THEOREM. =LOGICO-COMBINATIONAL
LOVELDW69A	A	SIMPLIFIED	FORMAT FOR THE MODEL ELIMINATION THEOREM-PROVING PROCEDURE. =
KANGES-63	A	SIMPLIFIED	PROOF METHOD FOR ELEMENTARY LOGIC. =
AMUREPB68A	ON	SIMPLIFYING	THE MATRIX OF A WFF. =
NAPHAB-64A		SIR	A COMPUTER PROGRAM FOR SEMANTIC INFORMATION RETRIEVAL. =
CHREB-63	ICAL CASES AND	SOLVABLE	SURANYI SURCASES. =ON THE DECISION PROBLEM OF THE FIRST ORDER PREDICATE CALCUL
FRIEDJ-63A	PROGRAM FOR A	SOLVABLE	CASE OF DECISION PROBLEM. =COMPUTER
ACKERW-54		SOLVABLE	CASES OF THE DECISION PROBLEM. =
FIKESR-71	ING TO PROBLEM	SOLVING	=STRIPS: A NEW APPROACH TO THE APPLICATION OF THEOREM PROV
MOLES-71		SOLVING	PROBLEMS BY FORMULA MANIPULATION IN LOGIC AND LINEAR INEQUALITIES. =
AMARES-67	RISTIC PROBLEM	SOLVING	AND THEOREM-PROVING IN PROPOSITIONAL CALCULUS. =AN APPROACH TO HEU
DIXONJK70	VED METHOD FOR	SOLVING	DEDUCTIVE PROBLEMS ON A COMPUTER BY COMPILED AXIOMS. =AN IMPRO
VANHEJ-67	GE TO GOUEL: A	SOURCE	BOOK IN MATHEMATICAL LOGIC. =FROM FRE
DIXONJK71	THE	SPECIALIZER	A METHOD OF AUTOMATICALLY WRITING COMPUTER PROGRAMS. =
BLEDSW-71		SPLITTING	AND REDUCTION HEURISTICS IN AUTOMATIC THEOREM PROVING. =
MCCARJ-69	BLEMS FROM THE	STANDPOINT	OF ARTIFICIAL INTELLIGENCE. =SOME PHILOSOPHICAL PRO
WALDIRJ69A	PROV: A	STEP	TOWARD AUTOMATIC PROGRAM WRITING. =
ZAMOVNK69	ON A CLASS OF	STRATEGIES	WHICH CAN BE USED TO ESTABLISH DECIDABILITY BY THE RESOLUTION PRINCIPLE. =
MELTZB-68	ON RESOLUTION	STRATEGIES	=SOME NOTES
WOS--LT64	HEOREM PROVING	STRATEGIES	AND THEIR IMPLEMENTATION. =SOME T
ROBINGA64	HECREM-PROVING	STRATEGIES	AND THEIR IMPLEMENTATIONS. =SOME T
MELTZB-66A	S IN COMPLETE	STRATEGIES	FOR THEOREM-PROVING BY COMPUTER. =SOME RECENT DEVELOPMENT
MASLOSJ71	PROOF-SEARCH	STRATEGIES	FOR METHODS OF THE RESOLUTION TYPE. =
BROWNTC68	WITH COVERING	STRATEGIES	AND EQUALITY THEORY. =RESOLUTION
KOWALR-70	SEARCH	STRATEGIES	FOR THEOREM-PROVING. =
LUCKHD-68	ME TREE-PARING	STRATEGIES	IN THEOREM PROVING. =SO
CARLIJL68	HEOREM-PROVING	STRATEGIES	BASED ON THE RESOLUTION PRINCIPLE. =SOME T
WOS--LT64	NIT PREFERENCE	STRATEGY	IN THEOREM PROVING. =THE U
WOS--LT65	SET OF SUPPORT	STRATEGY	IN THEOREM PROVING. =EFFICIENCY AND COMPLETENESS OF THE
SLAGLJR65A	SED PREFERENCE	STRATEGY	USING SUFFICIENCY-RESOLUTION FOR ANSWERING QUESTIONS. =A PROPO
REITER-70	TE ELIMINATION	STRATEGY	IN THEOREM-PROVING. =THE PREDICA
FIKESR-71		STRIPS	A NEW APPROACH TO THE APPLICATION OF THEOREM PROVING TO PROBLEM SOLVING. =
BURSTRM69	OF PROGRAMS BY	STRUCTURAL	INDUCTION. =PROVING PROPERTIES
REYNOCJ70	THE ALGEBRAIC	STRUCTURE	OF ATOMIC FORMULAS. =TRANSFORMATIONAL SYSTEMS AND
BURSTRM70A	ION OF PROGRAM	STRUCTURE	AND SEMANTICS IN FIRST-ORDER LOGIC. =FORMAL DESCRIPT
KOWALR-70A		STUDIES	IN THE COMPLETENESS AND EFFICIENCY OF THEOREM-PROVING BY RESOLUTION. =
MINKEJ-70	AL DATA SYSTEM	STUDY	=RELATION
NEHODA-62	MATHEMATICS, A	STUDY	IN THE PHILOSOPHY OF SCIENCE. =THE FOUNDATIONS OF
CHREB-63	RANYI	SURCASES	=ON THE DECISION PROBLEM OF THE FIRST ORDER PREDICATE CALCULUS: THE CLASSICAL
CARLIJL68A	WITH EQUALITY	SUBSTITUTIONS	AND MATHEMATICAL INDUCTION. =AUTOMATIC THEOREM PROVING
FLOTG070	PROPERTIES OF	SUMSUMPTION	=LATTICE THEORETIC
SLAGLJR65A	STRATEGY USING	SUFFICIENCY-RESOLUTION	FOR ANSWERING QUESTIONS. =A PROPOSED PREFERENCE
WOS--LT65	OF THE SET OF	SUPPORT	STRATEGY IN THEOREM PROVING. =EFFICIENCY AND COMPLETENESS
WOS--LT68	ION AND SET OF	SUPPORT	=PARAMCULAT
HENSCLJ69	ERGING, SET OF	SUPPORT	AND TAUTOLOGIES. =RESOLUTION, M
CHREB-63	S AND SOLVABLE	SURANYI	SURCASES. =ON THE DECISION PROBLEM OF THE FIRST ORDER PREDICATE CALCULUS: THE
MELTZB-69	THE USE OF	SYMBOLIC	LOGIC IN PROVING MATHEMATICAL THEOREMS BY MEANS OF A DIGITAL COMPUTER. =
CARLIJL64	LANGUAGE INTO	SYMBOLIC	LOGIC. =TRANSLATING ORDINARY
CREVKVP65	ITH FUNCTIONAL	SYMBOLS	=A DECIDABLE FRAGMENT OF CLASSICAL PREDICATE CALCULUS W
NANNAZ-70	OMATIC PROGRAM	SYNTHESIS	=TOWARDS AUT

MASLOSJ69	ECTION BETWEEN	TACTICS	OF THE RESOLUTION AND INVERSE METHODS. =A CONN
HENSCLJ69	OF SUPPORT AND	TAUTOLOGIES	=RESOLUTION, MERGING, SET
ALUEHR-70A	ND A NEW	TECHNIQUE	FOR ESTABLISHING COMPLETENESS. =A LINEAR FORMAT FOR RESOLUTION WITH MERGING A
NILSSNJ69A	INTELLIGENCE	TECHNIQUES	=A MOBILE AUTOMATON: AN APPLICATION OF ARTIFICIAL
GREENCC68	THEOREM PROVING	TECHNIQUES	IN QUESTION-ANSWERING SYSTEMS. =THE USE OF T
FISHMDH70	THEOREM-PROVING	TECHNIQUES	TO QUESTION-ANSWERING SYSTEMS. =THE APPLICATION OF T
DUNHAB-62	THEOREM	TESTING	BY COMPUTER. =
WOODVGH71	CHANICAL	THEOREM	PROVING. =A DEFINITIONALLY EXTENDIBLE TYPE-LOGIC FOR ME
NILSSNJ69	ICATE CALCULUS	THEOREM	PROVING. =PRFD
SLAGLJR65B	MULTIPURPOSE,	THEOREM	PROVING, HEURISTIC PROGRAM THAT LEARNS. =A
WALDIRJ69	ATICALLY USING	THEOREM	PROVING. =CONSTRUCTING PROGRAMS AUTOM
ROBINJA70A	OF MECHANICAL	THEOREM	PROVING. =AN OVERVIEW
WOS--LT68A	MAXIMAL MODEL	THEOREM	=THE
MELTZB-65		THEOREM	PROVING FOR COMPUTERS. =
WOS--LT65	RT STRATEGY IN	THEOREM	PROVING. =EFFICIENCY AND COMPLETENESS OF THE SET OF SUPPO
WOS--LT64	SOME	THEOREM	PROVING STRATEGIES AND THEIR IMPLEMENTATION. =
ROBINJA68A	IN MECHANICAL	THEOREM	PROVING. =NEW DIRECTIONS
SLAGLJR67	AUTOMATIC	THEOREM	PROVING WITH RENAMABLE AND SEMANTIC RESOLUTION. =
SKOLET-67	IM, GENERALIZ.	THEOREM	=LOGICO-COMBINATIONAL INVESTIGATIONS IN THE SATISFIABILITY OR PROVABILITY OF
VANDERGJ71	ANICAL	THEOREM	PROVING AND ITS APPLICATIONS. =OUTLINE, BIBLIOGRAPHY, AND KWIC INDEX ON MECH
TRAVILG64	RIMENTS WITH A	THEOREM	UTILIZING PROGRAM. =EXPE
WOS--LT64	CE STRATEGY IN	THEOREM	PROVING. =THE UNIT PREFEREN
SKOLET-67	D PROOF OF A	THEOREM	BY L. LOWENHEIM, GENERALIZ. THEOREM. =LOGICO-COMBINATIONAL INVESTIGATIONS IN T
ROBINJA67	W OF AUTOMATIC	THEOREM	PROVING. =A REVIE
KLINGRE69		THEOREM	PROVING BY ANALOGY WITH APPLICATIONS TO RESOLUTION LOGIC. =
BLEDSW71	S IN AUTOMATIC	THEOREM	PROVING. =SPLITTING AND REDUCTION HEURISTIC
BRICEC-71	OLUTION	THEOREM	PROVER. =A HEURISTICALLY GUIDED EQUALITY RULE IN A RES
LUCKHD-68	STRATEGIES IN	THEOREM	PROVING. =SOME TREE-PARING
GELERH-60	F THE GEOMETRY	THEOREM	MACHINE. =EMPIRICAL EXPLORATIONS O
DUNHAB-62		THEOREM	TESTING BY COMPUTER. =
GREENCC68	THE USE OF	THEOREM	PROVING TECHNIQUES IN QUESTION-ANSWERING SYSTEMS. =
LEE--RC67	A COMPLETENESS	THEOREM	AND A COMPUTER PROGRAM FOR FINDING THEOREMS DERIVABLE FROM GIVEN AXIOMS. =A CO
FIKESR-71	APPLICATION OF	THEOREM	PROVING TO PROBLEM SOLVING. =STRIPS: A NEW APPROACH TO THE
CHANGCL70A	INPUT PROOF IN	THEOREM	PROVING. =THE UNIT PROOF AND THE
CHANGCL71A		THEOREM	PROVING WITH VARIABLE-CONSTRAINED RESOLUTION. =
CARLIJL68A	AUTOMATIC	THEOREM	PROVING WITH EQUALITY SUBSTITUTIONS AND MATHEMATICAL INDUCTION. =
CARLIJL69		THEOREM	PROVING AND INFORMATION RETRIEVAL. =
CARLIJL69A		THEOREM	PROVERS AS QUESTION ANSWERERS. =
HEWIT-C71	NGUAGE FOR THE	THEOREM	PROVING FORMALISM PLANNER. =MATCHLESS A PATTERN DIRECTED LA
COOPEDC66		THEOREM	PROVING IN COMPUTERS. =
KING-J-70	ATION ORIENTED	THEOREM	PROVER OVER INTEGERS. =AN INTERPRET
CRAIGW-57	GENTZEN	THEOREM	=LINEAR REASONING. A NEW FORM OF THE HERBRAND-
HENSCLJ68	N IN AUTOMATED	THEOREM	PROVING. =SOME NEW RESULTS ON RESOLUTIO
CRAIGW-57A	RBRAND-GENTZEN	THEOREM	RELATING MODEL THEORY TO PROOF THEORY. =THREE USES OF THE HE
PITRAJ-65	CH CHOICES THE	THEOREMS	IT PROVES. =REALIZATION OF A PROGRAM WHI
SLAGLJR70	INTERPOLATION	THEOREMS	FOR RESOLUTION IN LOWER PREDICATE CALCULUS. =
PITRAJ-66	MONSTRATION DE	THEOREMS	UTILISANT DES METHODES HEURISTIQUES. =REALISATION DE PROGRAMMES DE DE
WANG-H-60A	PROVING	THEOREMS	BY PATTERN RECOGNITION, I. =
MELTZB-69	G MATHEMATICAL	THEOREMS	BY MEANS OF A DIGITAL COMPUTER. =THE USE OF SYMBOLIC LOGIC IN PROVIN
WANG-H-61	PROVING	THEOREMS	BY PATTERN RECOGNITION, II. =
SLAGLJR69	COMPLETENESS	THEOREMS	FOR SEMANTIC RESOLUTION IN CONSEQUENCE-FINDING. =
NORTOLM69	AM FOR PROVING	THEOREMS	OF GROUP THEORY. =ADEPT - A HEURISTIC PROGR
ROBINA-57	PROVING	THEOREMS	AS DONE BY MAN, MACHINE AND LOGICIAN. =
COHENJ-70	EM FOR PROVING	THEOREMS	IN THE PREDICATE CALCULUS. =AN INTERACTIVE SYST
LUCKHD-69	REFINEMENT	THEOREMS	IN RESOLUTION THEORY. =
DUNHAB-59	Y LOGICAL	THEOREMS	=A NON-HEURISTIC PROGRAM FOR PROVING ELEMENTAR
HEWITC-69	GE FOR PROVING	THEOREMS	IN ROBOTS. =PLANNER: A LANGUA

LEE--RC67
BLEDSWW71A
GILMPCP59
BUMSTHM68
MELTZB-70
LOVELDW69
SLAGLJR68
FOPLRJ67
HQBINJA63A
HEITER-70
WANG-H-65
WOS--LT67
NORTOLM71
ROBINJA67B
MELTZB-66
ROBINGA69
ROBINGA64
CHEN-RH68
ROBINJA61
MELTZB-66A
LOVELDW68
KOWALR-70A
AMARES-67
GREENCC69B
ALLENJ-70
LUCKHO-67
KOWALR-70
DAVISM-62
FISHMDH70
CHINLTJ64
CHANGCL70
GREENCC69
CHANGCL70B
COOK-SA71
KOWALR-69
LOVELDW69A
KALLIB-66
CARLIJL68
GREENCC69A
PLOTKGU70
ROBINGA69
CHANGCL71
MILLSR-68
TAKAHM-67
SMULLRM63
GUJNEWV55
NORTOLM69
MELTZB-71
NEWELA-63
NEWELA-56
CHURCA-65
HENKIL-50
HINTIJ-65
CRAIGW-57A
CRAIGW-57A
LUCKHO-70A

FOR FINDING
PROOF OF LIMIT
ROOFS FOR
RESOLUTION
LIFICATION FOR
MULTIPURPOSE,
S IN AUTOMATIC
ON STRATEGY IN
AND AUTOMATIC
EMODULATION IN
TH A HEURISTIC
ATION OF
MODULATION AND
SOME
OF A
A GENERAL
IES FOR
MECHANICAL
EM SOLVING AND
APPLICATION OF
AN INTERACTIVE
N PRINCIPLE IN
STRATEGIES FOR
NE PROGRAM FOR
APPLICATION OF
NOTES ON
APPLICATION OF
FOR AUTOMATIC
COMPLEXITY OF
S IN AUTOMATIC
SOME
LATTICE
IN FIRST-ORDER
REFUTATION FOR
THE LOGIC
IN SIMPLE TYPE
QUANTIFICATION
QUANTIFICATION
GROUP
OLEGOMENA TO A
S OF THE LOGIC
THE LOGIC
MENTARY NUMBER
ETENESS IN THE
TOWARDS A
LAYING MODEL
HEORY TO PROOF
IN RESOLUTION

[illegible]

DERIVABLE FROM GIVEN AXIOMS. =A COMPLETENESS THEOREM AND A COMPUTER PROGRAM
=COMPUTER
DERIVABLE WITHIN THE FIRST ORDER PREDICATE CALCULUS =A PROGRAM FOR THE PRODUCT
=A SCHEME FOR INDEXING AND RETRIEVING CLAUSES FOR A
=POWER AMP
COMBINING MODEL ELIMINATION AND RESOLUTION. =
HEURISTIC PROGRAM. =EXPERIMENTS WITH A
=BETH-TREE METHOD
ON THE COMPUTER. =
=THE PREDICATE ELIMINATION
=FORMALIZATION
=THE CONCEPT OF D
PROGRAM FOR PREDICATE CALCULUS WITH EQUALITY. =EXPERIMENTS WITH
=HEURISTIC AND COMPLETE PROCESSES IN THE MECHANIZATION
FOR COMPUTERS: SOME RESULTS ON RESOLUTION AND RENAMING. =
IN FIRST-ORDER THEORIES WITH EQUALITY. =PARA
STRATEGIES AND THEIR IMPLEMENTATIONS. =
METHOD. =SOME EXPERIMENTS WITH A COMPUTER REALIZATION
PROGRAM FOR THE IBM 704. =
BY COMPUTER. =SOME RECENT DEVELOPMENTS IN COMPLETE STRATEGIES
BY MODEL ELIMINATION. =
BY RESOLUTION. =STUDIES IN THE COMPLETENESS AND EFFICIENCY OF
IN PROPOSITIONAL CALCULUS. =AN APPROACH TO HEURISTIC PROGRAMS
TO PROBLEM-SOLVING. =APPLICATION
PROGRAM. =AN INTERPRETATION
=THE RESOLUTION
=SEARCH
=A MACHINE
TECHNIQUES TO QUESTION-ANSWERING SYSTEMS. =THE
BY MATCHING. =
=
TO QUESTION-ANSWERING SYSTEMS. =THE
WITH EQUALITY. =RENAMABLE PARAMODULATION
PROCEDURES. =THE
=SEMANTIC TREE
PROCEDURE. =A SIMPLIFIED FORMAT FOR THE MODEL ELIMINATION
BY COMPUTER. =
BY COMPUTER. =
STRATEGIES BASED ON THE RESOLUTION PRINCIPLE. =
BY RESOLUTION AS A BASIS FOR QUESTION-ANSWERING SYSTEMS. =
PROPERTIES OF SUBSUMPTION. =
WITH EQUALITY. =PARAMODULATION AND THEOREM-PROVING
WITH EQUALITY. =COMPLETENESS OF LINEAR
IN LISP. =
=A PROOF OF CUT-ELIMINATION
=A UNIFYING PRINCIPLE IN
=A PROOF PROCEDURE FOR
=ADEPT - A HEURISTIC PROGRAM FOR PROVING THEOREMS OF
OF EFFICIENCY OF PROOF PROCEDURES. =PROOF
MACHINE. =EMPIRICAL EXPLORATION
MACHINE. =
=AN UNSOLVABLE PROBLEM OF ELEMENTS
OF TYPES. =COMPLETENESS
OF INDUCTIVE GENERALIZATION. =
TO PROOF THEORY. =THREE USES OF THE HERBRAND-GENTZEN THEOREM RELATING
=THREE USES OF THE HERBRAND-GENTZEN THEOREM RELATING MODEL THEORY
=REFINEMENTS

DAVISM-60	QUANTIFICATION	THEORY	=A COMPUTING PROCEDURE FOR
ANDREP870	LUTION IN TYPE	THEORY	=RESO
MASLOSJ66	BIL-ITY TO THE	THEORY	OF DECIDABLE FRAGMENTS OF CLASSICAL PREDICATE CALCULUS.=APPLICATION OF THE INV
GILMOPC60	QUANTIFICATION	THEORY	=A PROOF METHOD FOR
HEBERJ-67	TIONS IN PROOF	THEORY	=INVESTIGA
LUCKHD-69	IN RESOLUTION	THEORY	=REFINEMENT THEOREMS
BROWNTC68	S AND EQUALITY	THEORY	=RESOLUTION WITH COVERING STRATEGIE
CKEBEB-52	QUANTIFICATION	THEORY	=ON THE COMPLETENESS OF
MCCARJ-64	A	TOUGH	NUT FOR PROOF PROCEDURES. =
REYNOJC70		TRANSFORMATIONAL	SYSTEMS AND THE ALGEBRAIC STRUCTURE OF ATOMIC FORMULAS. =
CARLIJL64		TRANSLATING	ORDINARY LANGUAGE INTO SYMBOLIC LOGIC. =
SLAGLJR71A	IN AND/OR	TREES	=FINDING RESOLUTION PROOFS AND USING DUPLICATE GOALS
LUCKHD-70	SOLUTION PROOF	TREES	=EXTRACTING INFORMATION FROM RE
CANTRRG69	INARY SEMANTIC	TREES	=EFFICIENT MAXIMAL SEMANTIC RESOLUTION PROOFS BASED UPON B
KOWALR-69	SEMANTIC	TREES	IN AUTOMATIC THEOREM-PROVING. =
LUCKHD-68	SOME	TREE-PARING	STRATEGIES IN THEOREM PROVING. =
MCCARJ-63	NODEFINED' AS A	TRUTH-VALUE	=PREDICATE CALCULUS WITH 'U
BUCHIJR58		TURING	MACHINES AND THE ENTSCHEIDUNGS-PROBLEM. =
TAKAHN-67	TION IN SIMPLE	TYPE	THEORY. =A PROOF OF CUT-ELIMINA
ANDREP870	RESOLUTION IN	TYPE	THEORY. =
MASLOSJ71	THE RESOLUTION	TYPE	=PROOF-SEARCH STRATEGIES FOR METHODS OF
HEKIL-50	THE THEORY OF	TYPES	=COMPLETENESS IN
WOODNGH71	LLY EXTENDIBLE	TYPE-LOGIC	FOR MECHANICAL THEOREM PROVING. =A OFFINITIONA
MELTZB-67A	ICS, LOGIC AND	UNDECIDABILITY	=MATHEMAT
CREVAVP68	TWO	UNDECIDABLE	FRAGMENTS OF CLASSICAL PREDICATE CALCULUS.=
DAVISM-65	THE	UNDECIDABLE	=
GODELK-67A	ON FORMALLY	UNDECIDABLE	PROPOSITIONS OF PRINCIPIA MATHEMATICA AND RELATED SYSTEMS. =
ROBINJA71	NAL LOGIC: THE	UNIFICATION	COMPUTATION. =COMPUTATIO
FART-TP65	OF ROBINSON'S	UNIFICATION	ALGORITHM. =A USEFUL ALGEBRAIC PROPERTY
SMULLRM63	A	UNIFYING	PRINCIPLE IN QUANTIFICATION THEORY. =
WOS--LT64	THE	UNIT	PREFERENCE STRATEGY IN THEOREM PROVING. =
CHANGCL70A	THE	UNIT	PROOF AND THE INPUT PROOF IN THEOREM PROVING.=
CIPAORA69	THE RECURSIVE	UNSOLVABILITY	OF THE DECISION PROBLEM FOR THE CLASS OF DEFINITE FORMULAS. =
CHURCA-65	AN	UNSOLVABLE	PROBLEM OF ELEMENTARY NUMBER THEORY. =
PITRAJ-66	THEOREMS	UTILISANT	DES METHODES HEURISTIQUES. =REALISATION DE PROGRAMMES DE DEMONSTRATION DE
TRAVILG64	WITH A THEOREM	UTILIZING	PROGRAM. =EXPERIMENTS
CHANGCC58	ALYSIS OF MANY	VALUED	LOGICS.=ALGEBRAIC AN
ACKERR-67	UCTION TO MANY	VALUED	LOGIC.=INTROD
BING-K-69	ESTRICTIONS ON	VARIABLES	=NATURAL DEDUCTION WITH FEW R
CHANGCL71A	EM PROVING WITH	VARIABLE-CONSTRAINED	RESOLUTION. =THEOR
COOPEDC71	ANICAL PROGRAM	VERIFICATION	=PROGRAMS FOR MECH
KING-J-69	A PROGRAM	VERIFIER	=
ANDREP868A	HE MATRIX OF A	WFF	=ON SIMPLIFYING T
WALDIRJ69A	OMATIC PROGRAM	WRITING	=PROV: A STEP TOWARD AUT
CIXONJK71	AUTOMATICALLY	WRITING	COMPUTER PROGRAMS. =THE SPECIALIZER: A METHOD OF
ROBINJA61	AM FOR THE IBM	704	=A GENERAL THEOREM-PROVING PROGR
MCCARJ-63	CALCULUS WITH	'UNDEFINED'	AS A TRUTH-VALUE. =PREDICATE
RAPHAB-64	PROGRAM WHICH	'UNDERSTANDS	' =A COMPUTER