Computer Literature Bibliography
1946 to 1963

United States Department of Commerce
National Bureau of Standards
Miscellaneous Publication 266

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COMPUTER LITERATURE BIBLIOGRAPHY 1946 TO 1963

CACM	COMMUNICATIONS OF THE ACM (1958-)
JACM	JOURNAL OF THE ASSOCIATION FOR COMPUTING MACHINERY (1954-)
PACM	PROC. (AND PREPRINTS) OF THE ACM NATIONAL MEETINGS (1952-)
EJCC	EASTERN JOINT COMPUTER CONFERENCE PROC. (1951-1961)
FJCC	FALL JOINT COMPUTER CONFERENCE PROC. (1962-)
WJCC	WESTERN JOINT COMPUTER CONFERENCE PROC. (1953-1961)
SJCC	SPRING JOINT COMPUTER CONFERENCE PROC. (1962-)
PGEC	TRANS. OF THE PROFESSIONAL GROUP ON ELECTRONIC COMPUTERS (1952-)
AADC60	ANALOGUE AND DIGITAL COMPUTERS (PHILOSOPHICAL LIBRARY 1960)
ACFI57	AUTOMATIC CODING (FRANKLIN INSTITUTE 1957) MONOGRAPH NO. 3
ADC 53	AUTOMATIC DIGITAL COMPUTATION, NAT. PHYS. LAB., ENGLAND (HMSO 1953)
AIC	ADVANCES IN COMPUTERS (ACADEMIC PRESS 1960-)
ANL 53	ARGONNE NATIONAL LABORATORY, COMPUTER SYMPOSIUM, ANL-5181, 1953
AODC62	APPLICATIONS OF DIGITAL COMPUTERS (GINN 1963)
ARAP	ANNUAL REVIEW IN AUTOMATIC PROGRAMMING (PERGAMON PRESS 1960-)
AUS	PROC. OF AUSTRALIAN COMPUTER CONFERENCES (1951, 1957, 1960, 1963)
BCS 58	THE BUSINESS COMPUTER SYMPOSIUM (PITMAN 1959)
BIT	NORDISK TIDSKRIFT FOR INFORMATIONS- BEHANDLING (1961-)
CABS62	COMPUTER APPLICATIONS IN THE BEHAVIORAL SCIENCES (PRENTICE-HALL 62)
CAMB49	RPT OF A CONF ON H S AUTO CALCULATING-MACH., CAMBRIDGE, ENG., 1949
CAN	CANADIAN CONF. FOR COMPUTING AND DATA PROCESSING (1958, 60, 62)
CAS	COMPUTER APPLICATIONS SYMPOSIUM, ARMOUR RESEARCH FOUND. (1955-1962)
CATH63	COMPUTERS AND THOUGHT (MCGRAW-HILL, 1963)
CCST61	COMPUTER CONTROL SYSTEMS TECHNOLOGY (MCGRAW-HILL 1961)
CENG59	COMPUTER ENGINEERING (PERGAMON PRESS 1960)
CHBK62	COMPUTER HANDBOOK (MCGRAW-HILL 1962)
CLUN55	THE COMPUTING LABORATORY IN THE UNIVERSITY (UNIV. OF WISC. 1957)
CPFS61	COMPUTER PROGRAMMING AND FORMAL SYSTEMS (NORTH-HOLLAND 1963)
CTPC54	CONF. ON TRAINING PERSONNEL FOR COMPUTERS (WAYNE UNIV. PRESS 1955)
DIP 62	DIGITAL INFORMATION PROCESSORS (J. WILEY 1962)
ECIP55	ELECTRONIC DIGITAL COMPUTERS AND INF. PROCESSING, DARMSTADT, 1955
EDPS61	ELECTRONIC DATA PROCESSING SYMPOSIUM, LONDON (PITMAN 1963)
ELEC61	ELECTRONIC COMPUTERS (PRENTICE-HALL 1961)
FTT 53	FASTER THAN THOUGHT (PITMAN 1953)
HACC59	HANDBOOK OF AUTOMATION, COMP. AND CONTROL, VOL. 2 (J. WILEY 1959)
HARV	HARVARD UNIVERSITY SYMPOSIA (1947, 1949, 1955, 1957, 1961)
IBMJ	IBM JOURNAL OF RESEARCH AND DEVELOPMENT (1957-)
IBSJ	IBM SYSTEMS JOURNAL (1962-)
ICC	INTERNATIONAL COMPUTATION CENTRE BULLETIN (1958-)
ICIP59	INT. CONF. ON INFORMATION PROCESSING, PARIS (UNESCO 1959)
ICSI58	INT. CONF. ON SCIENTIFIC INFORMATION, WASHINGTON, DC (NAS-NRC 1959)
IEES56	INST. OF ELECTRICAL ENGINEERS, SUPPLEMENT PART B VOL. 103, 1956
IFIP62	INT. FED. FOR INFORMATION PROCESSING, MUNICH (NORTH-HOLLAND 1962)
LCMT61	SYMP. ON LARGE CAPACITY MEMORY TECHNIQUES (MACMILLAN 1962)
LSU	HIGH-SPEED COMPUTER CONF. (LOUISIANA STATE UNIV. 1955-1958)
MANC51	PROC MANCHESTER UNIVERSITY COMPUTER INAUGURAL CONF., ENGLAND, 1951
MCF 61	MANAGEMENT AND THE COMPUTER OF THE FUTURE (J. WILEY 1962)
MIPP61	MACHINE INDEXING, PROGRESS AND PROBLEMS (AMERICAN UNIV 1961)
MSEE46	MOORE SCHOOL OF ELECTRICAL ENGINEERING LECTURES, PHILADELPHIA, 1946
MTL 61	MACHINE TRANSLATION OF LANGUAGES, NAT. PHYS. LAB., ENG. (HMSO 1962)
MTP 58	MECH. OF THOUGHT PROCESSES, NAT. PHYSICAL LAB., ENGLAND (HMSO 1959)
NCR	NATIONAL (AND INTERNATIONAL) CONVENTION RECORD OF THE IRE (1953-)
NEWC57	NEW COMPUTERS, A REPORT FROM THE MANUFACTURERS (ACM 1957)
NSMT60	PROC. OF THE NAT. SYMP. ON MACHINE TRANSLATION (PRENTICE-HALL 1961)
OCR 62	OPTICAL CHARACTER RECOGNITION (SPARTAN 1962)
ONR	OFFICE OF NAVAL RESEARCH SYMPOSIA (1951, 52, 53, 54, 56, 58, 60)
OPI 62	SYMP. ON OPTICAL PROCESSING OF INFORMATION (SPARTAN PRESS 1963)
PCS 62	PLANNING A COMPUTER SYSTEM (MCGRAW-HILL 1962)
PECS52	PROC. OF THE ELECTRONIC COMPUTER SYMPOSIUM, LOS ANGELES, 1952
PIRE	PROC. IRE, COMPUTER ISSUES OCT 53, JAN 61, COMPUTER SECTION MAY 62
PLCI61	PROGRAMMED LEARNING AND COMPUTER-BASED INSTRUCTION (J. WILEY 1962)
PWCS54	PROCEEDINGS OF THE WESCON COMPUTER SESSION, LOS ANGELES, 1954
RMCS60	RELIABILITY AND MAINT. OF COMPUTER SYSTEMS, LONDON (IEE 1960)
ROME62	SYMBOLIC LANGUAGES IN DATA PROCESSING, ROME (GORDON AND BREACH 62)
RTCS62	REDUNDANCY TECHNIQUES FOR COMPUTING SYSTEMS (SPARTAN PRESS 1962)
SACI58	SMALL AUTOMATIC COMPUTERS AND I/O EQUIP., LOS ANGELES 1958
SOS	SELF-ORGANIZING SYSTEMS (PERGAMON PRESS 1959,61, SPARTAN PRESS 62)
TCB	THE COMPUTER BULLETIN (1957-)
TCJ	THE COMPUTER JOURNAL (1958-)
TOMM58	THE THEORY OF MATHEMATICAL MACHINES (PERGAMON PRESS, 1963)
WCR	WESCON CONVENTION RECORD OF THE IRE (1957-1960)
WOCO62	WORKSHOP ON COMPUTER ORGANIZATION (SPARTAN 1963)

C

UNITED STATES DEPARTMENT OF COMMERCE • John F. Connor, *Secretary*
NATIONAL BUREAU OF STANDARDS • A. V. Astin, *Director*

Computer Literature Bibliography 1946 to 1963

W. W. Youden

National Bureau of Standards Miscellaneous Publication 266

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Computer Literature Bibliography
1946 to 1963

W. W. Youden

Over 6,100 references are contained in this bibliography of computer literature published during the years 1946 through 1963. The Bibliography Section includes the full title and all of the authors of every article published in 9 journals, 21 books, and over 100 proceedings. No articles from other sources are included. The books selected are those that have chapters by individual authors, as such chapters are not normally indexed in most libraries.

The Title Word Index Section is used to find an article if any part of its title is known or to find all the articles whose titles include a particular word or phrase. The Author Index Section lists all authors of each article, but does not indicate whether an individual is the sole author of the article.

The bibliography is intended not only to serve those in the computer field, but also to be an experiment in information retrieval to determine the value of cumulative KWIC and author indexes to published literature in a specific subject area.

INTRODUCTION

How To Understand the Coden

All three sections of this computer literature bibliography use an 11-character (occasionally 12-character) *coden*[1] to identify each article. The first four letters (sometimes three letters plus a space) are usually an acronym for the title of the book, journal, or proceeding. An effort has been made to choose acronyms of mnemonic value.

A list of the acronyms with their explanations is given on the inside of the front and back covers. The Bibliography Section is in the same sequence as the lists inside the covers. Sometimes an abbreviation is used instead of an acronym. For example, HARV is the four-letter abbreviation used for the proceedings of all conferences which took place at Harvard University.

Following the four-letter acronym are the last two digits of the year in which the article was first presented or published. For journals, the issue number is given immmediately following the two year-digits. The letters O, N, and D are used to indicate the 10th, 11th, and 12th issues of a monthly journal. For books and proceedings, this digit, if there is one, indicates the volume number. Last, separated by at least one space (with a few unavoidable exceptions), the starting page of the article is given.

Some examples of how coden expand to the full reference are as follows:

CACM63N 660=Communications of the ACM, 1963, November, page 660

DIP 62 67=Digital Information Processors, 1962, page 67

ICSI 582 823=International Conference on Scientific Information, 1958 Volume 2, page 823

A few exceptions to the rules above occur when a book or proceedings does not number its pages from start to finish, but numbers the pages of each article or chapter independently. In such cases the article or chapter identification used in the book or proceedings is used in the coden. For example:

PACM61 12A5=Preprints of the ACM, 1961, Paper 12A5

Another exception is made for the two journals that have a volume year slightly out of phase with the calendar year. For these journals the volume number, which is redundant information, is given to the left of the two year-digits, immediately following the three-letter acronym. The issue number is still given to the right of the two year-digits. For example:

TCJ5634 349=The Computer Journal, Volume 5, 1963, Issue 4, page 349.

The coden scheme as used in this bibliography eliminates double lookups[2] that are required by most other published computer-produced indexes. This scheme is most useful for cumulative indexes to a reasonably small set of books, journals, and proceedings. A heterogeneous collection of articles from hundreds of sources does not usually lend itself to this sort of treatment, nor should it be used for literature citations.[3]

[1] Charles Bishop, An integrated approach to the documentation problem, *American Documentation* **4**, 54–65 (April 1953).
[2] W. W. Youden, Characteristics of programs for KWIC and other computer produced indexes, *Automation and Scientific Communication*, 332, (1963).
[3] Letters to the editor, *Science* **120**, 1038–1040 (1954).

How To Use the Bibliography Section

In the Bibliography Section the major publications of the Association for Computing Machinery, the Joint Computer Conferences, and the IEEE Computer Group are listed first. This special group, with the acronyms CACM, JACM, PACM, EJCC, FJCC, WJCC, SJCC, and PGEC, constitutes almost half of all the references in this bibliography. All of the remaining acronyms follow in alphabetical sequence. Within each acronym the references are in year, issue number, and page number sequence.

Bibliographic information similar to that given on a library catalog card is given at the beginning of the listing for each book, journal, proceedings, or series of proceedings. The first line of this bibliographic information is almost always the title of the book, journal, etc. If the main entry on the Library of Congress catalog card differs, it follows the title in parentheses. An ellipsis within the parentheses indicates omission of repeated words. For proceedings, the second line gives the location and date of the meeting. Usually, the second line also gives the name of the publisher and the year of publication. The Library of Congress classification and catalog card number are on the following line if they have been ascertained. Occasionally additional miscellaneous information is given.

How To Use the Title Word Index

The Title Word Index is a permuted title or KWIC (Keyword-in-Context) [4] index. It is not a subject index and can best be used by those who are knowledgeable in the field of computers.

Each title can be found under all of the significant words that it contains. The title is shifted to aline each successive significant word with a column near the middle of the page. After sorting from this column to its right, it becomes very easy to locate all titles that contain a given word or phrase. Since each line in the index is a separate unit, titles longer than one line must be chopped. This is indicated by a virgule (/) next to the chopped portion if the title either begins or ends on the line.

The proper point to begin reading a line is at the longest white space. The line is read to its right-hand end and then, continuing at the left end of the line, it is read to the longest white space where the reading began. This longest space will never be less than three character spaces except in the rare case of a title longer than the line which has been positioned so that both ends of the title are off the line. In this case, there will be only a single space between each word on the line, and the line is read from left to right.

The title is the title of the article or book chapter. Titles of foreign language articles have been translated (sometimes roughly) into English and then followed with the name of the foreign language in parentheses. Over 30 words such as AND, FOR OF, and THE have been prevented from indexing, and they are identified in their alphabetical place in the Title Word Index.

The wide format which results in less than 3 percent of the titles being chopped is based on the format of the Bell Telephone Laboratories permuted title index [5] rather than on the narrower format of earlier KWIC indexes. This format does not have the disadvantage of the KWOC or Keyword-out-of-context index, which makes the finding of a phrase or multiword entry difficult.

How to Use the Author Index

All authors of each article are listed in the Author Index with their names followed by as much of the title as will fit on one line. No indication is given as to whether an individual is the sole author or one of several coauthors. Reference should be made to the Bibliography Section for this information.

Authors will be found under the prefix when their last name is preceded by any of the following prefixes: DE, DEL, DEN, DER, DES, DI, LA, LE, ST, VAN, and VON. Authors may be listed with their given names in full and with one or more of their given names shortened to initials. This, plus the fact that authors whose names are followed by suffixes, such as JR, SR, II, and III, sometimes publish with the suffix dropped, means that occasionally several listings for the same author may become slightly separated.

Since the sorting of names was done on a computer, the sequence of names is in order word-by-word rather than letter-by-letter. Also note that MC... and MAC... are not interfiled.

[4] H. P. Luhn, Keyword-in-context index for technical literature (KWIC index), *American Documentation*, 11, 288–295 (Oct. 1960).

[5] R. A. Kennedy, Mechanized title word indexing of internal reports, *Machine Indexing, Progress and Problems*, 112–132, American University (1961).

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AUS 60 A4.3 STDCK CDNTRDL DN A NEW ELECTRDNIC ACCDUNTING SYSTEM • R. CLEMENT
AUS 60 A4.4 WAREHDUSE STDCK CDNTRDL AND INVDICING DN PAPER TAPE • J. W. EVANS
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AUS 60 A5.3 DATA PRDCESSING APPLIED TD MANUFACTURING INDUSTRIES • T. H. S. RDBINSDN, B. L. ALCDRN
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AUS 60 A7.4 DIFFICULTIES DF USING AUTDMATIC CDMPUTERS DN DFFICE WDRK • T. R. THDMPSDN
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AUS 60B'3.2 CDMPUTATIDNAL PRDBLEMS IN THEDRETICAL NUCLEAR PHYSICS • P. SWAN
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AUS 60D14.2 NCR EQUIPMENT OFFERING IN AUSTRALIA * R. M. HADLEY

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AUS 6DD15.2 THE LEO III CDMPUTER * T. R. THOMPSDN
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AUS 63 AUSTRALIAN CDMPUTER CDNFERENCE
MELBOURNE, AUSTRALIA, FEBRUARY 25-29, 1963.
AUSTRALIAN NATIDNAL CDMMITTEE DN CDMPUTATION AND AUTDMATIC CDNTRDL.

AUS 63 A.1 CDMPUTERS AS AN AID TD DISTRIBUTION * V. A. BENJAFIELD
AUS 63 A.2 A MDDERN APPRDACH TD THE PRDBLEMS DF BUYING AND SELLING * R. D. SUMMERFIELD
AUS 63 A.3 E.D.P. IN THE INSURANCE INDUSTRY * B. R. PAUL
AUS 63 A.4 AN INDUSTRY STUDY, BANKING * G. C. B. PEARSDN
AUS 63 A.5 CDMPUTERS AS AN AID TD UTILITY MANAGEMENT * T. A. JDHNSTDN
AUS 63 A.6 AN INDUSTRY STUDY, E.D.P. IN THE DEFENCE SERVICES * J. A. DVENSTDNE
AUS 63 A.7 SYSTEM DESIGN * E. J. HIBBLE
AUS 63 A.8 THE SNDWY MDUNTAINS AUTHDRITY STDRES SYSTEM, A CASE STUDY * KEITH ERNST
AUS 63 A.9 A.D.P. SYSTEM DESIGN IN THE AUSTRALIAN PDST DFFICE * D. FENNA
AUS 63 A.1D ELECTRDNIC DATA PRDCESSING IN THE CDMMDNWEALTH PUBLIC SERVICE STAFF TRAINING * J. D. WHITE, E. H. PALFREYMAN
AUS 63 A.11 CDNVERSIDN * EDWARD M. MCLAUGHLIN
AUS 63 A.12 A CASE STUDY DF A CDNVERSION * T. J. D'KEEFFE
AUS 63 A.13 CDNTRDL AND ADMINISTRATIDN DF A DATA PRDCESSING CENTRE * J. R. MILLER
AUS 63 A.14 CDNTRDLS AND ADMINISTRATIDN IN RELATIDN TD A DATA PRDCESSING CENTRE * R. R. STRANG
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AUS 63 A.19 REAL-TIME CDMPUTER-BASED MANAGEMENT CDNTRDL SYSTEMS * MALCDLM H. GDTTERER
AUS 63 A.20 E.D.P. AND THE AUDITDR * N. H. MCINTDSH
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AUS 63 B.5 A PRDPDSED PLANNING MAN-MACHINE CDMPLEX * J. A. DVENSTDNE
AUS 63 B.6 SIMULATION USING A CDMPUTER * I. D. DAVIDSDN
AUS 63 B.7 LINEAR AND QUADRATIC PRDGRAMMING WITH SDME DR ALL VARIABLES REQUIRED TD BE ZERD DR UNITY * R. W. RUTLEDGE
AUS 63 B.8 PRDDUCTIDN SCHEDULING, A CASE HISTDRY * G. W. RDGERSDN
AUS 63 B.9 NUMERICAL WEATHER PREDICTION AND ANALYSIS * D. JENSSEN
AUS 63 B.10 CDMPUTATIDNS DF NERVE AND HEART CELL ACTIVITY * E. P. GEDRGE, E. A. JDHNSDN
AUS 63 B.11 METHDDS FDR SDLUTIDN DF NDN-LINEAR EQUATIDNS AND THE EXTRACTIDN DF NUCLEAR SCATTERING PHASE SHIFTS * A. T. BERZTISS
AUS 63 B.12 THE PRDCESSING AND ANALYSIS DF CDSMIC RAY AIR SHDWER DATA USING THE CDMPUTER SILLIAC * P. C. PDDLE, D. F. CRAWFDRD
AUS 63 B.13 CDMPUTING PRDBLEMS IN X-RAY CRYSTAL STRUCTURE ANALYSIS * H. C. FREEMAN, J. G. SIME
AUS 63 B.14 AUTDMATIC CDMPUTATIDN DF MDLECULAR INTEGRALS * E. A. MAGNUSSDN
AUS 63 B.15 STATISTICAL MECHANICS AND HIGH-SPEED CDMPUTING * J. A. BARKER
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AUS 63 B.17 LINEAR EQUATIDNS, SDME REMARKS DN CURRENT THEDRY * I. N. CAPDN
AUS 63 B.18 NUMERICAL EVALUATIDN DF MULTIPLE INTEGRALS * T. SAG, G. SZEKERES
AUS 63 B.19 THE NUMERICAL SDLUTIDN DF FREDHDLM INTEGRAL EQUATIDNS USING CHEBYSHEV SERIES * DAVID ELLIDTT, P. J. D'CDNNDR
AUS 63 B.2D NUMERICAL TECHNIQUES FDR THE STUDY DF TIME-VARYING SYSTEMS * J. HILLER, L. C. HILL, R. G. SMART
AUS 63 B.21 USE DF CDMPUTERS IN PLANNING P.M.G. CDMMUNICATIDNS * I. A. NEWSTEAD
AUS 63 B.22 CDMPUTER PRDGRAMMES FDR ELECTRIC PDWER SYSTEM PLANNING * R. L. URIE
AUS 63 B.23 SDME ENGINEERING APPLICATIDNS DF THE DIGITAL CDMPUTER CSIRAC * J. J. RUSSELL, F. A. BLAKEY
AUS 63 B.24 THE USE DF REDUNDANCY TD INCREASE RELIABILITY IN DIGITAL SWITCHING CIRCUITS * H. S. WRAGGE
AUS 63 C.1 THE KDF9 CDMPUTER SYSTEM * A. C. D. HALEY
AUS 63 C.2 A FLEXIBLE AND ECDNDMIC APPRDACH TD DIGITAL SYSTEM DESIGN * M. W. ALLEN, G. A. RDSE
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AUS 63 C.4 DATA TRANSMISSIDN FDR AUTDMATIC CDMPUTATIDN AND CDNTRDL PART 1, GENERAL CDNSIDERATIDNS * D. A. GRAY
AUS 63 C.4 DATA TRANSMISSIDN FDR AUTDMATIC CDMPUTATIDN AND CDNTRDL PART 2, PRACTICAL CDNSIDERATIDNS * D. RHYS-JDNES, R. G. KITCHENN
AUS 63 C.5 THE W.R.E. DATA CDNVERSIDN SYSTEM, MK II * J. H. L. CDHEN, D. LAMB
AUS 63 C.6 SEMICDNDUCTDR SAMPLE AND HDLD CIRCUITS * D. H. RDDGERS
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