

# Computer Literature Bibliography

## 1946 to 1963



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

# 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 INFORMATION- 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)  
WOC062 WORKSHOP ON COMPUTER ORGANIZATION (SPARTAN 1963)



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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



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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*<sup>1</sup> 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 immediately 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<sup>2</sup> 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.<sup>3</sup>

<sup>1</sup> Charles Bishop, An integrated approach to the documentation problem, *American Documentation* 4, 54-65 (April 1953).

<sup>2</sup> W. W. Youden, Characteristics of programs for KWIC and other computer produced indexes, *Automation and Scientific Communication*, 332, (1963).

<sup>3</sup> 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)<sup>4</sup> 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 align 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<sup>5</sup> 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.

<sup>4</sup> H. P. Luhn, Keyword-in-context index for technical literature (KWIC index), *American Documentation*, 11, 288-295 (Oct. 1960).

<sup>5</sup> R. A. Kennedy, Mechanized title word indexing of internal reports, *Machine Indexing, Progress and Problems*, 112-132, American University (1961).



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CACM581 11 A PROGRAMMED BINARY COUNTER FOR THE IBM TYPE 650 CALCULATOR \* B. C. KENNY, J. A. HUNTER  
CACM582 1 VARIABLE-WIDTH TABLES WITH BINARY-SEARCH FACILITY \* MARK HALPERN  
CACM582 16 OFFICE OF NAVAL RESEARCH OCN VOL 10 NO 1 JAN 58  
CACM583 3 IBM 704 CODE-NUMBERS \* MURRAY GRUMETTE  
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CACM584 9 REQUEST FOR METHODS OR PROGRAMS \* HENRY P. T. CORLEY  
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CACM585 3 NOTE ON EMPIRICAL BOUNDS FOR GENERATING BESSEL FUNCTIONS \* JAMES B. RANDELS, ROY F. REEVES  
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CACM587 4 THE LINCOLN KEYBOARD, A TYPEWRITER KEYBOARD DESIGNED FOR COMPUTER INPUT FLEXIBILITY \* A. VANDERBURGH  
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CACM589 3 EDITOR'S NOTE ON SERIES APPROXIMATION TRUNCATION \* R. W. BEMER  
CACM589 7 ERROR ESTIMATION IN RUNGE-KUTTA PROCEDURES \* DICKSON H. CALL, ROY F. REEVES  
CACM589 9 THE PROBLEM OF PROGRAMMING COMMUNICATION WITH CHANGING MACHINES, PART 2 \* J. STRONG, J. WEGSTEIN,  
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PGEC625 623  
 PGEC626 753  
 LCMT61 213  
 IFIP62 684  
 IEES56 217  
 PGEC634 312  
 CACM632 63  
 CACM600 539  
 CACM620 508  
 TCJ3603 136  
 TCJ5634 313  
 JACM572 151  
 TCJ4674 273  
 TCJ4611 20  
 TCJ1582 49  
 NCR 634 25  
 HACC59 5  
 ICIP59 183  
 PACM62 42  
 NSMT60 439  
 CACM633 83  
 CACM621 19  
 NSMT60 126  
 MTL 611 65  
 ICS1582 975  
 CACM633 76  
 WCR 604 82  
 PGEC614 587  
 PGEC634 357  
 CACM639 564  
 PGEC613 446  
 IFIP62 630  
 EJCC61 194  
 CACM621 54  
 JACM611 97  
 CACM633 1-1  
 JACM634 583  
 TCJ3603 150  
 CLUN55 161  
 PACM58 33  
 TCJ3614 246  
 TCJ5623 221  
 TCJ5634 294  
 PIRE611 236  
 LCMT61 305  
 ONR 60 311  
 AIC 623 190  
 ICC 631 3  
 JACM553 137  
 JACM584 385  
 FJCC62 44  
 EJCC59 120  
 JACM561 26  
 EJCC60 241  
 PGEC571 14  
 PGEC612 183  
 WJCC57 68  
 PGEC593 262  
 ACFT57 103  
 LSU 55 73  
 PECS52 10  
 PIRE530 1294  
 CCST61 389  
 EJCC57 64  
 WJCC57 94  
 PGEC594 489  
 CACM59N 4  
 CACM620 613  
 MTL 611 159  
 NSMT60 63  
 NSMT60 267  
 JACM591 24  
 PACM58 61  
 IBMJ571 57  
 JACM581 39  
 IBMJ633 182  
 IBMJ633 199  
 ECI555 56  
 ECI555 207  
 DIP 62 1  
 JACM604 326  
 IFIP62 359  
 NSMT60 325  
 EJCC61 158  
 WJCC57 188  
 NCR 344 133  
 NEWCS7 72  
 MTL 611 221  
 SOS 61 325  
 PACM61 10C3  
 EJCC57 148  
 PECS52 13  
 JIP 62 508  
 PGEC543 25

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\* NBS Group, Joint Institute for Laboratory Astrophysics at the University of Colorado.

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