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COMPUTER LITERATURE BIBLIOGRAPHY, VOLUME 2, 1964—1967

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ARIS	ANNUAL REVIEW OF INFORMATION SCIENCE AND TECHNOLOGY (1966-)
AUS 66	PROCEEDINGS OF THE THIRD AUSTRALIAN COMPUTER CONFERENCE (1966)
BIT	NORDISK TIDSKRIFT FOR INFORMATION-BEHANDLING (1964-)
BJCC66	PROCEEDINGS OF BRITISH JOINT COMPUTER CONFERENCE (1966)
CACD67	COMPUTER APPLICATIONS IN CONCRETE DESIGN AND TECHNOLOGY (AM C INST 67)
CACM	COMMUNICATIONS OF THE ACM (1964-)
CAE 65	THE COMPUTER IN AMERICAN EDUCATION (WILEY 1967)
CAHR64	COMPUTER AUGMENTATION OF HUMAN REASONING (SPARTAN BOOKS 1965)
CAIT65	THE COMING AGE OF INFORMATION TECHNOLOGY (DOCUMENTATION INC 1965)
CAN 64	COMPUTING AND D. P. SOCIETY OF CANADA, CONF. PROC. (1964)
CGN	IEEE COMPUTER GROUP NEWS (1966-)
CHUM	COMPUTERS AND THE HUMANITIES (1966-)
CIBR65	COMPUTERS IN BIOMEDICAL RESEARCH (ACADEMIC PRESS 1965)
CIHR67	COMPUTERS IN HUMANISTIC RESEARCH (PRENTICE-HALL 1967)
COIN	COMPUTER AND INFORMATION SCIENCES (1963, 1966)
CPAU	COMPUTERS AND AUTOMATION (1964-)
DCUH67	DIGITAL COMPUTER USER'S HANDBOOK (MCGRAW-HILL 1967)
DFA 63	DISC FILE APPLICATIONS SYMPOSIUM (1963)
DTMN	DATAMATION (1964-)
EIH	ELECTRONIC INFORMATION HANDLING (1964, 1967)
FJCC	FALL JOINT COMPUTER CONFERENCE PROCEEDINGS (1964-1967)
IAPS62	INFORMATION AND PREDICTION IN SCIENCE (ACADEMIC PRESS 1965)
IBFC65	THE IMPACT OF BATCH FABRICATION ON FUTURE COMPUTERS (IEEE 1965)
IBMJ	IBM JOURNAL OF RESEARCH AND DEVELOPMENT (1964-)
IBMS	IBM SYSTEMS JOURNAL (1964-)
ICCB	INTERNATIONAL COMPUTATION CENTRE BULLETIN (1964-)
IECC67	FIRST ANNUAL IEEE COMPUTER CONFERENCE (IEEE 1967)
IEEC	IEEE TRANSACTIONS ON ELECTRONIC COMPUTERS (1964-)
IEEP66D	PROCEEDINGS OF THE IEEE, COMPUTER ISSUE (DEC 1966)
IFCN	INFORMATION AND CONTROL (1964-)
IFIP65	INT. FED. FOR INFORMATION PROCESSING (SPARTAN BOOKS 1965)
ISC 64	INFORMATION SYSTEMS COMPATABILITY (SPARTAN BOOKS 1965)
ISP 62	INTRODUCTION TO SYSTEM PROGRAMMING (ACADEMIC PRESS 1964)
ISS 64	INFORMATION SYSTEM SCIENCES (SPARTAN BOOKS 1965)
ISS 66	INFORMATION SYSTEM SCIENCES AND TECHNOLOGY (THOMPSON BOOK CO 1967)
JACM	JOURNAL OF THE ACM (1964-)
MCSB64	MATH. AND COMPUTER SCI. IN BIOLOGY AND MEDICINE (LONDON 1965)
MCST65	MODERN CONTROL SYSTEMS THEORY (MCGRAW-HILL 1965)
MIS 64	MILITARY INFORMATION SYSTEMS (F.A. PRAEGER 1964)
MISI65	MANAGEMENT INF. SYSTEMS AND THE INF. SPECIALIST (PURDUE UNIV PR 1966)
MMDC	MATHEMATICAL METHODS FOR DIGITAL COMPUTERS, VOL I AND II (WILEY 1960)
NCIR	NATIONAL COLLOQUIM ON INFORMATION RETRIEVAL (1964, 65, 66, 67)
NLAC63	NATURAL LANGUAGE AND THE COMPUTER (MCGRAW-HILL 1963)
OEIP64	OPTICAL AND ELECTRO-OPTICAL INFORMATION PROCESSING (MIT PRESS 1965)
OLCS65	SYMPOSIUM ON ON-LINE COMPUTING SYSTEMS (LOS ANGELES 1965)
PACM	PROC. (AND PREPRINTS) OF THE ACM NATIONAL CONFERENCES (1964-)
R	REVIEWS FROM IEEE TRANS. ON ELECTRONIC COMPUTERS (1964-)
SADC66	SYSTEM ANALYSIS BY DIGITAL COMPUTER (WILEY 1966)
SAMD64	STAT. ASSN. METHODS FOR MECHANIZED DOCUMENTATION (NBS MISC PUB 1965)
SCAM669	SCIENTIFIC AMERICAN, INFORMATION ISSUE (SEPT 1966)
SIM	SIMULATION (FALL, 1963-)
SJCC	SPRING JOINT COMPUTER CONFERENCE PROCEEDINGS (1964, 1966, 1967)
TCB	THE COMPUTER BULLETIN (1964-)
TCJ	THE COMPUTER JOURNAL (1964-)
UCAE66	USE OF COMP IN ANAL. OF EXP. DATA AND THE CONTROL OF NUCLR. FAC. (66)
UCAN62	SYMPOSIUM ON THE USE OF COMPUTERS IN ANTHROPOLOGY (MOUTON 1965)
UDCE65	THE USE OF DIGITAL COMPUTERS IN ELECTRIC POWER SYSTEMS (ORIEL P 1967)

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NATIONAL BUREAU OF STANDARDS • A. V. Astin, *Director*

Computer Literature Bibliography
Volume 2
1964 — 1967

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Computer Literature Bibliography

Volume 2

1964—1967

W. W. Youden

This bibliography is a continuation of *Computer Literature Bibliography, 1946 to 1963*[1], and is intended as a further service to the computer community. It contains approximately 5,200 references to computer literature published during the years 1964 through 1967. The Bibliography Section includes the full title and the names of all of the authors of each item published in 17 journals, 20 books composed of chapters by individual authors, and 43 conference proceedings. In addition, references to all items that were reviewed in the IEEE Transactions on Electronic Computers have been included.

The Title Word Index Section provides the means for locating an item if any part of its title is known. Likewise, it can be used to identify all items whose titles include a particular word or phrase. The Author Index Section lists all authors of each item, but does not indicate whether an individual is its sole author.

INTRODUCTION

How To Understand the Coden

An 11-character *coden* is used to identify each item in all three sections of this computer literature bibliography. The first four letters are usually an acronym for the title of the journal, book, or proceedings in which it was published. 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.

Following the acronym are the last two digits of the year in which the item 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. The last part of the coden, separated by at least one space, is the initial page number of the item.

The coden scheme used in this bibliography eliminates double lookups. The user can go directly from the Title Word Index, for example, to the source document without referring to the entire bibliographic entry. This scheme is most useful for cumulative indexes to a reasonably small set of publications, especially when limited to a field of specific interest.

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

CACM67O 604=Communications of the ACM, 1967, October, page 604

OLCS65 14=Symposium on On-Line Computing Systems, 1965, page 14

IFIP652 320=International Federation for Information Processing, 1965, Volume 2, page 320

Since a few publications do not fit neatly into this scheme, there are a few exceptions to the rules given above. In some cases, the book or proceedings does not number its pages from start to finish, but numbers the pages of each chapter or paper independently. In such cases the chapter or paper identification used in the book or proceedings is used in the coden. For example:

PACM64 N2.2=Proceedings and Preprints of the ACM, 1964, paper N2.2

Another exception is made for the three journals that have a volume year slightly out of phase with the calendar year. In these cases the first four characters in the coden are a three-letter acronym followed by the volume number. The issue number is still given to the right of the year-digits. For example:

TCB9664 138=The Computer Bulletin, Volume 9, 1966, Issue 4, page 138

SIM8673 165=Simulation, Volume 8, 1967, Issue 3, page 165

One other exception concerns the books and papers reviewed in *IEEE Transactions on Electronic Computers* (*IEEC*). Here a 7-character coden is used which consists of an R in the fourth character space of those usually reserved for the acronym, followed by the two year-digits, the issue number, a hyphen and the number of the review. For example:

R654-46 =Reviews from *IEEE Transactions on Electronic Computers*, 1965, Issue 4, Review 46

[1] W. W. Youden, Computer Literature Bibliography, 1946 to 1963, National Bureau of Standards Miscellaneous Publication 266, March 1965. Available from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402, price $3.75.

How To Use the Bibliography Section

In the Bibliography Section the publications are listed in alphabetical sequence by acronyms. Within each acronym the references are listed in year, issue number, and page number sequence. At the beginning of the listing for each journal, book, or proceedings, bibliographic information similar to that found on a library catalog card is given. The first line of this bibliographic information is almost always the title of the publication. 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 contains 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.

Each entry in the Bibliography Section consists of the full title and all of its authors. In the case of books and papers reviewed in IEEC, the source of the item is also given in the bibliographic entry. However, reviews of items which are already in the bibliography have not been given an R entry, but the review and page numbers have been added to their bibliographic entries. For example, the item with coden FJCC66 191 was reviewed in IEEC and therefore its bibliographic entry is followed by "* * Reviewed in IEEC674 529 R67-48" which expands to mean reviewed in IEEC, 1967, Issue 4, page 529, Review Number R67-48.

How To Use the Title Word Index

The Title Word Index is a permuted title or KWIC (Keyword-in-Context) 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 wide page format results in less than three percent of the titles being chopped.

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 an article, book chapter, or paper. Titles of foreign language items have been translated (sometimes roughly) into English. The name of the original language, in parentheses, is added to the title.

Over 70 words which are of limited use as search tools such as ALMOST, AND, BIG, FOR, HAVING, NO, OF, THE and WITHIN have been excluded from the keyword index in order to reduce the length of this list. In addition the two words COMPUTER and COMPUTERS have been excluded as keywords since they appear so often in titles in the specific area covered by this book that they lose their value as keywords.

How To Use the Author Index

All authors of each item 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 prefixes such as: DE, DI, LA, VAN, VER and VON. Authors may be listed with their given names in full or 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 references by 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.

ACKNOWLEDGEMENTS

The author gratefully acknowledges the assistance of the staff of the Technical Information Exchange, Center for Computer Sciences and Technology, without which the publication of this second volume of the Computer Literature Bibliography would not have been possible. He is especially indebted to Mrs. Eileen J. P. Carr, Mr. Michael S. Keplinger, and Miss Josephine L. Walkowicz for their assumption of the multitudinous details associated with supervising the completion of the master data file and its computer processing to produce the several indexes.

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