Proceedings of The 1980 International
Computer Music Conference

COMPUTER APPLICATIONS

IN MUSIC:

A BIBLIOGRAPHY

compiled by

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INTRODUCTION

Computer Applications in Music: A Bibliography is an ongoing project that I have been working on for three and one-half years. There are 1202 citations arranged alphabetically by author within 22 subject groups. Subjects were developed through the course of the compiling of the bibliography when sufficient numbers of articles about a specific topic were found. Most of the subjects are self-explanatory from their names, but those that may need clarification are: ANALYSIS - articles about taeoretic analyses. Articles concerned with pitch analysis are under the subgroup --ANALYSIS TECHNIQUES under SOUND GENERATION; COMPOSITION - articles where the computer is used to help make decisions regarding the act of creating a composition; COMPOSITIONS - commentary on existing computer music pieces; SOUND GENERATION--ANALYSIS TECHNIQUES - analysis of tones; --SOUND SYNTHESIS SOFTWARE - programs for producing sounds; --SYNTHESIS TECHNIQUES - methods of producing new tones; and MISCELLANEOUS - articles and books of a general subject nature or entries in personal name index is at the end to provide access by author, editor, etc.

Most materials cited here have been published after 1972, and the bibliography is current through 1980. Earlier articles are included that are not in Stefan Kostka's A Bibliography of Computer Applications in Music which covers articles up to mid-1973. When a review of a book or article appeared after it was cited in Kostka, both the original and the review are listed here.

Very early in my work I realized that the standard music reference sources, Music Index and BIMM, were not adequate to provide access to articles for a subject that is so closely allied to scientific literature. My search took me through such computing sources as Computer and Control Abstracts, Computer and Information Systems Abstracts Journal, ACM Guide to the Computing Literature, Computing Reviews, and Computer Literature Index; engineering sources such as IEEE Publications Index, and Electrical and Electronics Abstracts; educational sources such as Resources in Education and Current Index to Journals in Education; and sources such as Applied Science and Technology Index, Dissertation Abstracts, and Canadian Theses, among others. I also found material from several on-line searches of bibliographic data bases on Lockheed and BSR.

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The source of abstracts, when available, is listed at the end of the citation. DA, followed by volume and page numbers, refers to Dissertation Abstracts International. RILM, followed by year and abstract number, refers to Repertoire Internationale de Litterature Musicale. Other abstracts are referenced by full title of publication. Book reviews are listed immediately following citations. Most titles of articles not in English, German, or French have been translated into English for further ease of use and accessibility.

This bibliography is intended to be as comprehensive as possible. I did not make value judgements in determining whether an article was to be included or not. If its subject covered computers as applied to music, it was added. All errors, misplaced articles, and omissions are my own responsibility. Any comments or criticisms would be appreciated as this is an ongoing project and is easily manipulated in its present condition on disk. Future plans include adding a keyword/title index, subject index (to provide cross-referencing), and annotations for those articles that do not have an abstract available in major reference sources, as well as continuous updating.

This bibliography was compiled on the IBM 3032 at the University of Rochester Computing Center. I used the SUPERWYLBUR software system for text editing, text formatting and a macro, provided by James Snell, for paginating. A PL/1 program was used to derive the personal name index and a second program to alphabetize it.

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