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programmes/programs/programmi

CHORDAL (in collaboration with W.E.Hultberg)
(see below)

textes/writings/testi

HULTBERG, Warren E. & HULTBERG, Mary Lou
"PROJECT CLEF : CAI IN MUSIC THEORY."
in Proceedings of the Fourth Conference on Computers in
Undergraduate Instruction (CCUC/4).
The Institute for Educational Computing, Claremont,
California, 1973. 222-225.

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COMPUTER-ASSISTED INSTRUCTIONAL PROGRAMS IN MUSIC
THEORY. PARTS I AND II.
A report submitted to the Rand Corporation, Santa Monica
California, as part of the study on the uses of compu-
ters in higher education commissioned by the Carnegie
Commission on Higher Education. 1969-70.

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activité/activity/attività

PROJECT CLEF (Computer Assisted Instruction in Music Theory).
Since 1967, through the collaborative efforts of personnel of the
Crane School of Music and the Department of Computer Science, CAI
programs in music theory have been developed at the State Univer-
sity College at Potsdam, New York.
PROJECT CLEF is a continuation, further refinement and development
of earlier efforts. Primarily concerned with the addition of sound
capability to an already established CAI environment, recent direc-
tions have involved interfacing an electronic organ with the
on-campus IBM System 360/30 configuration, development of appro-
priate software which provides complete harmonic, polyphonic, and
rhythmic control of the organ output, and enables an author to
create flexible instructional paradigms for a variety of purposes.

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cont.

The language CHORDAL (Crane Heuristic ORgan DATA Language), developed as a major part of the project and written in PL/1, utilizes the dialogue capabilities of COURSEWRITER and many of the symbolic representations of DARMS, and is designed specifically for music instructional purposes. In working prototype form it has been successfully demonstrated and tested with representative groups of faculty and students.

Currently, major directions of PROJECT CLEF include determining the nature of necessary modifications in the interface unit and the language CHORDAL in order to implement CAI of this type on an autonomous minicomputer-based system.

All of the CAI programs developed at Potsdam stress work in the structural materials of music, utilize branching and strand techniques that provide maximum flexibility in usage for authors and students of varying musical backgrounds. Not linked to the content of any particular course or text, the programs stress the development of the competencies requisite for the understanding of the fundamentals and structural materials of music.

(In collaboration with Professor W.E.Hultberg and Professor R.C. Lightburn)

biographie/biography/biografia

- 1921 Born, Oklahoma.
- 1943 Bachelor of Music Education, University of Colorado, Boulder, Colorado.
- 1948 Master of Music, Westminster Choir College, Princeton, New Jersey.
- 1964 Doctor of Musical Arts, University of Southern California Los Angeles, California.
Public school and college teaching experience.
- 1963- Associate Professor of Music, Crane School of Music, State University College, Potsdam, New York.

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