

5096 Straxpocket Ln., Westerville, Ohio 43081 USA

Algorithm Research; Foundation for the development of  
computer music and graphics

oeuvres/works/opere

Dihedra, 1974, 7'55"  
(unpublished)

MCC

programmes/programs/programmi

DIHEDRA

Program and sonic realization: California Institute  
of the Arts, Buchla 200S synthesizer, Nova 1200  
minicomputer

Generates formal music structures which, due to  
stochastic functions, vary in their details, but  
remain constant with respect to form

MCC

activité/activity/attività

I recently concluded a translation of DIHEDRA  
from BASIC to FORTRAN IV. The result is run on  
a PDP-11/45 controlling a Vector General display  
unit. The system will be used to implement an  
animated computer graphic score for the above  
composition.

CAMA  
CAMD

My major interest at this point involves the study  
and programming of a music/artificial intelligence  
system. Very briefly, the system will be adaptable  
to many compositional tasks and the user will be  
free to add to the program or simply utilize what  
is given. In this way, the knowledge base (long-term  
memory) will be expandable. Some portions of the  
system, as it stands today, are simulations of  
human musical behavior, while others are less  
accurate in that sense, and use what might be  
considered 'artificial' methods and models.

MCC  
CAMA  
CAMD  
MPeC

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cont.

Although work on the piece began some 6 months ago, I still consider it to be in the sketch stages. Much inquiry is still needed into both human musical processing and artificial models which reflect human behavior. I suspect that I will be in the process of constructing the theory and sonic realizations for some months to come.

biographie/biography/biografia

- 1954            born Columbus, Ohio  
1962-70        studied classical guitar techniques under John McCORMICK  
1972            studied composition at Cal. Inst. of the Arts under James TENNEY.  
1973-74        studied composition, mathematics, computer science, etc. independently (at CalArts); Studies in general systems theory, aesthetics, and phenomenology with instructor Jivan TABIBIAN.  
1974-           presently at Ohio State University majoring in computer science with relaxed application to music. Special studies advisor is Charles CSURI (director of O.S.U. Computer Gaphic Research Center).

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