



Current Directions in Computer Music Research



edited by

Max V. Mathews and
John R. Pierce

Current Directions In Computer Music Research

ML Yell



Current Directions In Computer Music Research:

Current Directions in Computer Music Research Max V. Mathews, John Robinson Pierce, 1991 These twenty one original contributions by composers behavioral scientists engineers and other specialists from many of the international centers of research in computer music provide an inside report on the most sophisticated aspects of digital synthesis control and understanding of musical sound and related work on perception Among the specific topics covered are speech songs synthesis of the singing voice spatial reverberation the simulation of bowed instruments and a conductor program utilizing a mechanical baton A chapter authored jointly by Mathews and Pierce describes a new musical scale they have been working on for the past few years

Performances to Accompany Current Directions in Computer Music Research Mathews, 1989-01-01

Performances to Accompany Current Directions in Computer Music Research, 1990 **The Oxford Handbook of Computer Music** Roger T. Dean, 2009-09-16 The Oxford Handbook of Computer Music offers a state of the art cross section of the most field defining topics and debates in computer music today A unique contribution to the field it situates computer music in the broad context of its creation and performance across the range of issues from music cognition to pedagogy to sociocultural topics that shape contemporary discourse in the field Fifty years after musical tones were produced on a computer for the first time developments in laptop computing have brought computer music within reach of all listeners and composers Production and distribution of computer music have grown tremendously as a result and the time is right for this survey of computer music in its cultural contexts An impressive and international array of music creators and academics discuss computer music s history present and future with a wide perspective including composition improvisation interactive performance spatialization sound synthesis sonification and modeling Throughout they merge practice with theory to offer a fascinating look into computer music s possibilities and enduring appeal

Sourcebook for Research in Music Phillip Crabtree, Donald H. Foster, 1993 This bibliography of bibliographies lists and describes sources from basic references to highly specialized materials Valuable as a classroom text and as a research tool for scholars librarians performers and teachers

The Computer Music Tutorial, second edition Curtis Roads, 2023-06-06 Expanded updated and fully revised the definitive introduction to electronic music is ready for new generations of students Essential and state of the art The Computer Music Tutorial second edition is a singular text that introduces computer and electronic music explains its motivations and puts topics into context Curtis Roads s step by step presentation orients musicians engineers scientists and anyone else new to computer and electronic music The new edition continues to be the definitive tutorial on all aspects of computer music including digital audio signal processing musical input devices performance software editing systems algorithmic composition MIDI and psychoacoustics but the second edition also reflects the enormous growth of the field since the book s original publication in 1996 New chapters cover up to date topics like virtual analog pulsar synthesis concatenative synthesis spectrum analysis by atomic decomposition Open Sound Control spectrum

editors and instrument and patch editors Exhaustively referenced and cross referenced the second edition adds hundreds of new figures and references to the original charts diagrams screen images and photographs in order to explain basic concepts and terms Features New chapters virtual analog pulsar synthesis concatenative synthesis spectrum analysis by atomic decomposition Open Sound Control spectrum editors instrument and patch editors and an appendix on machine learning Two thousand references support the book s descriptions and point readers to further study Mathematical notation and program code examples used only when necessary Twenty five years of classroom seminar and workshop use inform the pace and level of the material

An Open Design for Computer-Aided Algorithmic Music Composition Christopher Ariza,2005 This dissertation introduces a new design for a computer aided algorithmic music composition system Rather than exploring specific algorithms this study focuses on system and component design The design introduced here is demonstrated through its implementation in athenaCL a modular polyphonic poly paradigm algorithmic music composition system in a cross platform interactive command line environment The athenaCL system offers an open source object oriented composition tool written in Python The system can be scripted and embedded and includes integrated instrument libraries post tonal and microtonal pitch modeling tools multiple format graphical outputs and musical output in Csound MIDI audio file XML and text formats Software design analysis is framed within a broad historical and intertextual study of the themes approaches and systems of computer aided algorithmic composition CAAC A detailed history of the earliest experiments as well as analysis of the foundational CAAC systems is provided Common problems and interpretations of CAAC are then presented in a historical and intertextual context drawn from the writings and systems of numerous composers and developers Toward the goal of developing techniques of comparative software analysis a survey of system design archetypes based on seven descriptors of CAAC systems is presented With this foundation athenaCL system components are analyzed in detail System components are divided into abstractions of musical materials abstractions of musical procedures and system architecture For each component object models Python examples and diagrams are provided Further each component is given context in terms of its compositional implications and relation to alternative and related models from the history of CAAC

The Routledge Research Companion to Electronic Music: Reaching out with Technology Simon Emmerson,2018-05-16 The theme of this Research Companion is connectivity and the global reach of electroacoustic music and sonic arts made with technology The possible scope of such a companion in the field of electronic music has changed radically over the last 30 years The definitions of the field itself are now broader there is no clear boundary between electronic music and sound art Also what was previously an apparently simple divide between art and popular practices is now not easy or helpful to make and there is a rich cluster of streams of practice with many histories including world music traditions This leads in turn to a steady undermining of a primarily Euro American enterprise in the second half of the twentieth century Telecommunications technology most importantly the development of the internet in the final years of the century has made materials practices

and experiences ubiquitous and apparently universally available though some contributions to this volume reassert the influence and importance of local cultural practice Research in this field is now increasingly multi disciplinary Technological developments are embedded in practices which may be musical social individual and collective The contributors to this companion embrace technological scientific aesthetic historical and social approaches and a host of hybrids but most importantly they try to show how these join up Thus the intention has been to allow a wide variety of new practices to have voice unified through ideas of reaching out and connecting together and in effect showing that there is emerging a different kind of global music

Computers in Music Research ,1989 *The Psychology of Music* Diana Deutsch,1999 On interpreting musical phenomena in terms of mental function **Poetry of Reality** Katherine Norman,2005-08-15 First published in 1998 Routledge is an imprint of Taylor Francis an informa company *Proceedings of the ... International Computer Music Conference* ,2005 **DMIX** Daniel V. Oppenheim,1993 **International Workshop on Models and Representations of Musical Signals** ,1992 *New Directions in Music* David Cope,1993 **Electronic and Computer Music** Robert L. Wick,1997-01-28 This work is a handy desk reference for academic and public library music reference collections as well as teachers musicians and composers The more than 250 books discussed represent a core bibliography on this late 20th century phenomenon that is very much in transition as the concepts of electronic and computer merge into a single music whether acoustic or electronic in origin Of special interest is an up to date listing of on line sources found on the Internet including World Wide Web sites and electronic discussion lists Topics represented include history literature on synthesis and synthesizers electronic music instruments and devices electronic music composition MIDI Musical Instrument Digital Interface the teaching of computer and electronic music bibliographies and dictionaries Covered by way of appendices are major dissertations and theses lists of periodicals that have dealt with the subject and a compilation of electronic music instrument and device system manuals currently in print **Music Processing** Goffredo Haus,1993 This is a collection of essays on the state of the art in computer applications in music throughout Europe and North America Written by leaders in the field the book includes discussion of music processing music analysis synthesis models and formal tools for music knowledge representation and for programming and controlling music computing systems The final chapters examine the work of some of the most advanced computer music centres in the world The book will be of interest to students and professionals working within the field of music processing and will enrich their understanding of this crucially important subject Goffredo Haus is Senior Researcher Dipartimento di Scienze dell Informazione and scientific director of the LIM at the University of Milan He has lectured on computer music and electronic music at the University of Milan and composes music by computer methods *Publishers Trade List Annual, 1992* ,1992 *Library Trends* University of Illinois Library School,1992 *The New Grove Dictionary of Music and Musicians* Stanley Sadie,John Tyrrell,2001

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