

FOUNDATIONS OF COMPUTER MUSIC

EDITED BY
CURTIS ROADS AND JOHN STRAWN

AN MIT PRESS CLASSIC

Foundations Of Computer Music

Kent Kennan, Donald Grantham



Foundations Of Computer Music:

Foundations of Computer Music Curtis Roads, John Strawn, 1987-01-01 This survey chronicles the major advances in computer music that have changed the way music is composed performed and recorded It contains many of the classic seminal articles in the field most of which are now out of print in revised and updated versions Computer music pioneers digital audio specialists and highly knowledgeable practitioners have contributed to the book Thirty six articles written in the 1970s and 1980s cover sound synthesis techniques synthesizer hardware and engineering software systems for music and perception and digital signal processing The editors have provided extensive summaries for each section Curtis Roads is editor of Computer Music Journal John Strawn is a Research Associate at the Center for Computer Research in Music and Acoustics CCRMA at Stanford University

Foundations of Computer Music. Ed. by Curtis Roads, John Strawn. (4. Prin.). ,1988 *Computer Music Instruments* Victor Lazzarini, 2017-10-06 This book is divided into three elements Part I provides a broad introduction to the foundations of computer music instruments covering some key points in digital signal processing with rigorous but approachable mathematics and programming examples as well as an overview of development environments for computer instruments In Part II the author presents synthesis and processing with chapters on source filter models summation formulae feedback and adaptive systems granular methods and frequency domain techniques In Part III he explains application development approaches in particular communication protocols and user interfaces and computer music platforms All elements are fully illustrated with programming examples using Csound Python and Faust The book is suitable for advanced undergraduate and postgraduate students in music and signal processing and for practitioners and researchers

Conference proceedings Norman Meyrowitz, 1988 AUUGN ,1990-04 Advances in Computers ,1993-06-07 *Advances in Computers* *Extended Notation* Christian Dimpker, 2013 Most of the extended instrumental playing techniques as well as electroacoustic music in general are still deprived of a conventional method of notation In order to facilitate the utilization of these unconventional musical elements a coherent and consistent notation system is developed in this work Numerous extended techniques for playing string instruments wind instruments percussion instruments keyboard instruments and vocal techniques are therefore systematically explained and previous methods of notation discussed

Synthesizer Basics Brent Hurtig, 1988 Here is the fundamental knowledge and information that a beginning or intermediate electronic musician must have to understand and play today s keyboard synthesizers This basic primer newly updated from the classic original edition offers step by step explanations and practical advice on what a synthesizer is the basic concepts and components and the latest technical developments and applications Written by Bob Moog Roger Powell Steve Porcaro of Toto Tom Rhea and other well known experts *Synthesizer Basics* is the first and still the best introduction available today

Avant Garde Robin Maconie, 2012-03-01 Gertrude Stein and philosopher Alfred North Whitehead were unlikely friends who spent most of their mature lives in exile Stein in France and Whitehead in the United States Their

friendship was based on a mutual admiration for the philosophical pragmatism of William James and skepticism toward the European tradition of intellectual abstraction extending as far back as Plato and Aristotle Though neither was musical both were leading exponents of a new orientation toward time and knowledge acquisition that would go on to influence succeeding generations of composers Through Virgil Thomson Stein came to influence John Cage and the New York school of abstract music through his teaching in the United States Whitehead's philosophy of time and cognition came to be seen in America and abroad as an alternative to Newtonian neoclassicism an alternative clearly acknowledged in the metric modulations of Elliott Carter and Conlon Nancarrow as well as the post 1950 total serialism of Pierre Boulez and Karlheinz Stockhausen The seemingly unlikely influence of Stein and Whitehead on Thomson Cage Carter and the minimalists tells a remarkable story of transmission within and among the arts and philosophy one that Robin Maconie unravels through his series of essays in *Avant Garde An American Odyssey from Gertrude Stein to Pierre Boulez* Maconie explores from Hollywood to Harvard the way in which music functions as a form of communication across the boundaries of language serving the causes of trade and diplomacy through its representation of national identity emotional character honorable intention and social discipline The study of music as a language inevitably became the object of information science after World War II but as Maconie notes 60 years on music's refusal to yield to scientific elucidation has generated a stream of anti music propaganda by a powerful collective of celebrity science writers In a sequence of linked essays Stockhausen specialist Robin Maconie reconsiders the role of music and music technology through careful examination of key modern concepts with respect to time existence identity and relationship as formulated by such thinkers as Einstein Russell Whitehead and Stein along with Freud Schoenberg Wittgenstein and Marcel Duchamp This foray into art music science and philosophy is ideally suited for students and scholars of these disciplines as well as those seeking to understand more deeply the influence these individuals had on one another's work and modern music

Digital Audio Processing Fundamentals Aurelio

Uncini,2023-02-02 The book provides an accessible overview of audio signal processing and enables readers to design and write algorithms for the analysis synthesis and manipulation of musical and acoustic signals for any programming language It provides an overview of highly interdisciplinary topics developed in a simple but rigorous way and described in a unified and formal language which focuses on determining discrete time audio signal models Readers can find within a self contained volume basic topics ranging over different disciplines mechanical acoustics physical systems and linear and nonlinear models with lumped and distributed parameters described and developed with the same level of mathematical formalism easy to understand and oriented to the development of algorithms Topics include the fundamental concepts of acoustic mechanics and vibration the design of filters and equalizers for sound signals the so called audio effects abstract methods of sound synthesis and finally methods of synthesis by physical modeling

The Csound Book Richard Boulanger,2000-02-28

Created in 1985 by Barry Vercoe Csound is one of the most widely used software sound synthesis systems Because it is so

powerful mastering Csound can take a good deal of time and effort But this long awaited guide will dramatically straighten the learning curve and enable musicians to take advantage of this rich computer technology available for creating music Written by the world s leading educators programmers sound designers and composers this comprehensive guide covers both the basics of Csound and the theoretical and musical concepts necessary to use the program effectively The thirty two tutorial chapters cover additive subtractive FM AM FOF granular wavetable waveguide vector LA and other hybrid methods analysis and resynthesis using ADSYN LP and the Phase Vocoder sample processing mathematical and physical modeling and digital signal processing including room simulation and 3D modeling CDs for this book are no longer produced To request files please email digitalproducts@cs.mit.edu

Musical Signal Processing Curtis Roads, Stephen Travis Pope, Aldo Piccialli, Giovanni De Poli, 2013-12-19 Compiled by an international array of musical and technical specialists this book deals with some of the most important topics in modern musical signal processing Beginning with basic concepts and leading to advanced applications it covers such essential areas as sound synthesis including detailed studies of physical modelling and granular synthesis control signal synthesis sound transformation including convolution analysis resynthesis phase vocoder wavelets analysis by chaotic functions object oriented and artificial intelligence representations musical interfaces and the integration of signal processing techniques in concert performance

Designing Sound Andy Farnell, 2010-08-20 A practitioner s guide to the basic principles of creating sound effects using easily accessed free software Designing Sound teaches students and professional sound designers to understand and create sound effects starting from nothing Its thesis is that any sound can be generated from first principles guided by analysis and synthesis The text takes a practitioner s perspective exploring the basic principles of making ordinary everyday sounds using an easily accessed free software Readers use the Pure Data Pd language to construct sound objects which are more flexible and useful than recordings Sound is considered as a process rather than as data an approach sometimes known as procedural audio Procedural sound is a living sound effect that can run as computer code and be changed in real time according to unpredictable events Applications include video games film animation and media in which sound is part of an interactive process The book takes a practical systematic approach to the subject teaching by example and providing background information that offers a firm theoretical context for its pragmatic stance Many of the examples follow a pattern beginning with a discussion of the nature and physics of a sound proceeding through the development of models and the implementation of examples to the final step of producing a Pure Data program for the desired sound Different synthesis methods are discussed analyzed and refined throughout After mastering the techniques presented in Designing Sound students will be able to build their own sound objects for use in interactive applications and other projects

[PC Mag](#) , 1988-11-29 [PCMag.com](#) is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology

Multi-track Recording Dominic

Milano, 1988 With the advent of new technology at lower prices high quality home recording has become an accessible and even essential aspect of being a musician today Multi Track Recording is an introduction and guide to the latest equipment how it works and how to use it Designed by the publishers of Guitar Player and Keyboard magazines this comprehensive and easy to understand book explains how to set up a home studio with 4 track tape recorders how to choose outboard gear and effects devices for your own unique sound how to synchronize your tracks with various simple and advanced technologies and how to incorporate MIDI in your home recording whether it s analog or digital Suitable for both working at home and advancing to the studio Multi Track Recording offers invaluable tips on choosing a mixer soundproofing echo and delay reverb compression stereo noise gates sync tones and click tracks SMPTE drum machines MIDI time code advanced techniques and the latest applications and MIDI and tapeless recording Written by working musicians and studio professionals the book has practical creative tips as well as the basic information theory and technique necessary to make professional sounding multi track recordings yourself

Workstations for Experiments Jose L. Encarnacao, Georges G. Grinstein, 2012-12-06 Powerful new technology has been made available to researchers by an increasingly competitive workstation market Papers from Canada Japan Italy Germany and the U S to name a few of the countries represented in this volume discuss how workstations are used in experiments and what impact this new technology will have on experiments As usual for IFIP workshops the emphasis in this volume is on the formulation of strategies for future research the determination of new market areas and the identification of new areas for workstation research This is the first volume of a book series reporting the work of IFIP WG 5.10 The mission of this IFIP working group is to promote develop and encourage advancement of the field of computer graphics as a basic tool as an enabling technology and as an important part of various application areas

Art and Innovation Craig Harris, 1999 The idea behind Xerox s interdisciplinary Palo Alto Research Center PARC is simple If you put creative people in a hothouse setting innovation will naturally emerge PARC s Artist in Residence Program PAIR brings artists who use new media to PARC and pairs them with researchers who often use the same media though in different contexts The result is both interesting art and new scientific innovations Art and Innovation explores the unique process that grew from this pairing of new media artists and scientists working at the frontier of developing technologies In addition to discussing specific works created during several long term residencies the artists and researchers reveal the similarities and differences in their approaches and perspectives as they engage each other in a search for new methods of communication and creativity

Beyond MIDI Eleanor Selfridge-Field, 1997 The establishment of the Musical Instrument Digital Interface MIDI in the late 1980s allowed hobbyists and musicians to experiment with sound control in ways that previously had been possible only in research studios MIDI is now the most prevalent representation of music but what it represents is based on hardware control protocols for sound synthesis Programs that support sound input for graphics output necessarily span a gamut of representational categories What is most likely to be lost is any sense of the

musical work Thus for those involved in pedagogy analysis simulation notation and music theory the nature of the representation matters a great deal An understanding of the data requirements of different applications is fundamental to the creation of interchange codes The contributors to Beyond MIDI present a broad range of schemes illustrating a wide variety of approaches to music representation Generally each chapter describes the history and intended purposes of the code a description of the representation of the primary attributes of music pitch duration articulation ornamentation dynamics and timbre a description of the file organization some mention of existing data in the format resources for further information and at least one encoded example The book also shows how intended applications influence the kinds of musical information that are encoded Contributors David Bainbridge Ulf Berggren Roger D Boyle Donald Byrd David Cooper Edmund Correia Jr David Cottle Tim Crawford J Stephen Dydo Brent A Field Roger Firman John Gibson Cindy Grande Lippold Haken Thomas Hall David Halperin Philip Hazel Walter B Hewlett John Howard David Huron Werner Icking David Jaffe Bettye Krolick Max V Mathews Toshiaki Matsushima Steven R Newcomb Kia Chuan Ng Kjell E Nordli Sile O Modhrain Perry Roland Helmut Schaffrath Bill Schottstaedt Eleanor Selfridge Field Peer Sitter Donald Sloan Leland Smith Andranick Tanguiane Lynn M Trowbridge Frans Wiering

The Technique of Orchestration Kent Kennan, Donald Grantham, 2024-06-20 The Technique of Orchestration Seventh Edition is the definitive textbook on the study of orchestration offering a concise straight to the point approach that prepares students to score their own compositions with confidence Updated to reflect developments in instruments and orchestral best practices this seventh edition features Copious musical examples spanning the history of the orchestra Detailed descriptions of instruments and their distinctive characteristics Explanations of how to score chords and transcribe piano idioms Discussions on specialized ensembles and scoring techniques New musical examples have been added throughout and listening lists have been revised to include more music by women and composers of color representing a diverse musical catalogue Supported by an accompanying workbook of scores and scoring exercises available separately as well as a robust listening program keyed to the textbook The Technique of Orchestration Seventh Edition is an accessible essential all in one resource for the student of orchestration

Rationalizing Culture Georgina Born, 2023-09-01 Anthropologist Georgina Born presents one of the first ethnographies of a powerful western cultural organization the renowned Institut de Recherche et de Coordination Acoustique Musique IRCAM in Paris As a year long participant observer Born studied the social and cultural economy of an institution for research and production of avant garde and computer music She gives a unique portrait of IRCAM s composers computer scientists technicians and secretaries interrogating the effects of the cultural philosophy of the controversial avant garde composer Pierre Boulez who directed the institute until 1992 Born depicts a major artistic institution trying to maintain its status and legitimacy in an era increasingly dominated by market forces and in a volatile political and cultural climate She illuminates the erosion of the legitimacy of art and science in the face of growing commercial and political pressures By tracing how IRCAM has tried to accomodate these pressures while

preserving its autonomy Born reveals the contradictory effects of institutionalizing an avant garde Contrary to those who see postmodernism representing an accord between high and popular culture Born stresses the continuities between modernism and postmodernism and how postmodernism itself embodies an implicit antagonism toward popular culture Anthropologist Georgina Born presents one of the first ethnographies of a powerful western cultural organization the renowned Institut de Recherche et de Coordination Acoustique Musique IRCAM in Paris As a year long participant observer Born studied

Foundations Of Computer Music Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Foundations Of Computer Music**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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