



# Composing Music With Computers

**Sabine Zange**



## **Composing Music With Computers:**

**Composing Music with Computers** Eduardo Miranda,2001-04-27 Focuses on the role of the computer as a generative tool for music composition Miranda introduces a number of computer music composition techniques ranging from probabilities formal grammars and fractals to genetic algorithms cellular automata and neural computation Anyone wishing to use the computer as a companion to create music will find this book a valuable resource As a comprehensive guide with full explanations of technical terms it is suitable for students professionals and enthusiasts alike The accompanying CD ROM contains examples complementary tutorials and a number of composition systems for PC and Macintosh platforms from demonstration versions of commercial programs to exciting fully working packages developed by research centres world wide including Nyquist Bol Processor Music Sketcher SSEYO Koan Open Music and the IBVA brainwaves control system among others This book will be interesting to anyone wishing to use the computer as a companion to create music It is a comprehensive guide but the technical terms are explained so it is suitable for students professionals and enthusiasts alike

**Composing Music with Computers** Eduardo Reck Miranda,2001 *Composing Music Using Computers* , Features an article titled Composing Music Using Computers An Introduction written by Donald S Griffin and presented online by the author and Computer Music Consulting Links to other related articles on MIDI music [Composing Music with Computers](#) Eduardo Miranda,2001-04-27 Focuses on the role of the computer as a generative tool for music composition Miranda introduces a number of computer music composition techniques ranging from probabilities formal grammars and fractals to genetic algorithms cellular automata and neural computation Anyone wishing to use the computer as a companion to create music will find this book a valuable resource As a comprehensive guide with full explanations of technical terms it is suitable for students professionals and enthusiasts alike The accompanying CD ROM contains examples complementary tutorials and a number of composition systems for PC and Macintosh platforms from demonstration versions of commercial programs to exciting fully working packages developed by research centres world wide including Nyquist Bol Processor Music Sketcher SSEYO Koan Open Music and the IBVA brainwaves control system among others This book will be interesting to anyone wishing to use the computer as a companion to create music It is a comprehensive guide but the technical terms are explained so it is suitable for students professionals and enthusiasts alike

**Music and Computers** EDITORS OF MUSIC & COMPUTERS MAG,Music and Computers Magazine Editors,1998 A hands on book and accompanying CD ROM which describes in detail how a personal computer can create sound and music It focuses on the basics of equipment and technique and teaches musicians computer users and beginners how to play compose and record music on a desktop computer workstation

*Making Music with Java* Andrew Brown,2005 Making Music with Java is an introduction to music making through software development in the Java programming language using the jMusic library It explains musical and programming concepts in a coordinated way The book is written for the musician who wishes to learn about Java

programming and computer music concepts and for the programmer who is interested in music and sound design with Java It assumes little musical or programming experience and introduces topics and issues as they arise Sections on computer music and programming are interlaced throughout but kept separate enough so that those with experience in either area can skip ahead as required

**Music Composed with Computers** Lejaren Hiller,1968 *Music Composition For Dummies* Scott Jarrett,Holly Day,2024-08-13 Create the next big pop hit bang out a catchy jingle or write an iconic film score with music composition skills Today s composers create music for television film commercials and even video games *Music Composition For Dummies* brings you up to speed with the theory and technicality of composing music With easy to understand content that tracks to a typical music composition intro course this book will teach you how to use music theory to write music in a variety of forms You ll discover the latest tech tools for composers including composing software and online streaming services where you can publish your musical creations And you ll get a rundown on the world of intellectual property so you can collab and remix fairly while retaining all the rights to your own creations Get a clear introduction to music theory and songwriting concepts Learn about composition best practices for movies TV video games and beyond Explore sample music to help you understand both artistic and commercial composition Launch into the latest technologies to mix and share your creations Great for music students and aspiring artists *Music Composition For Dummies* is an easy to read guide to writing and producing all kinds of tunes

*Composing Music on Your PC* Rob Beattie,2002 This book aims to help you make the most of your PC s MIDI capabilities to compose and record your own music Learn the essential elements of composing and arranging music as well as discovering the power of the mixing desk

**Music Composed with Computer[s]** Lejaren Hiller,1968

**Algorithmic Composition** Mary Simoni,Roger B Dannenberg,2013-01-02 Algorithmic Composition offers new ways of thinking about the organization of sound that we call music

[Composing Music with a Macintosh Computer Using Performer Software](#) Suzanne A. Wood,1994

**Proceedings of the ... International Computer Music Conference**,2005

*Composer-Centered Computer-Aided Soundtrack Composition* Roland Edwin Vane,University of Waterloo. School of Computer Science,2007-01-01 For as long as computers have been around people have looked for ways to involve them in music Research in computer music progresses in many varied areas algorithmic composition music representation music synthesis and performance analysis to name a few However computer music research especially relating to music composition does very little toward making the computer useful for artists in practical situations This lack of consideration for the user has led to the containment of computer music with a few exceptions to academia In this thesis I propose a system that enables a computer to aide users composing music in a specific setting soundtracks In the process of composing a soundtrack a composer is faced with solving non musical problems that are beyond the experience of composers of standalone music The system I propose utilizes the processing power of computers to address the non musical problems thus preventing users from having to deal with them Therefore users can focus on the creative aspect of composing soundtrack

music The guiding principal of the system is to help the composer while not assuming any creative power and while leaving the user in full control of the music This principal is a major step toward helping users solve problems while not introducing new ones I present some carefully chosen tasks that a computer can perform with guidance from the user that follow this principal For example the system performs calculations to help users compose music that matches the visual presentation and allows users to specify music using the idea of timed regular expressions so that a computer can fill arbitrary amounts of time with music in a controlled manner A prototype application called EMuse was designed and implemented to illustrate the use and benefits of the proposed system To demonstrate that the system is capable of serving as a tool to create music two soundtracks were created for two sample animations It is beyond the scope of the work presented here to evaluate if the system achieves the goal of being a practical tool for composers However the innovations herein discussed are analyzed and found to be useful for soundtrack composition and for future user centered computer music research Electronic and Computer Music ,1977 Interactive Music Systems Robert Rowe,1993 Interactive Music Systems provides the first comprehensive survey and evaluation of new computer programs that can analyze and compose music in live performance

**Computers and People** ,1973 **Human-Computer Interaction** Julie Jacko,Constantine Stephanidis,2003-09-01 This is the second volume in the HCI International Conference Proceedings 2003 See following arrangement for details

Computers and Musical Style David Cope,1991 **Composing Interactive Music** Todd Winkler,2001-01-26 Interactive music refers to a composition or improvisation in which software interprets live performances to produce music generated or modified by computers In Composing Interactive Music Todd Winkler presents both the technical and aesthetic possibilities of this increasingly popular area of computer music His own numerous compositions have been the laboratory for the research and development that resulted in this book The author s examples use a graphical programming language called Max Each example in the text is accompanied by a picture of how it appears on the computer screen The same examples are included as software on the accompanying CD ROM playable on a Macintosh computer with a MIDI keyboard Although the book is aimed at those interested in writing music and software using Max the casual reader can learn the basic concepts of interactive composition by just reading the text without running any software The book concludes with a discussion of recent multimedia work incorporating projected images and video playback with sound for concert performances and art installations

## **Composing Music With Computers** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Composing Music With Computers**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Composing Music With Computers Introduction**

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