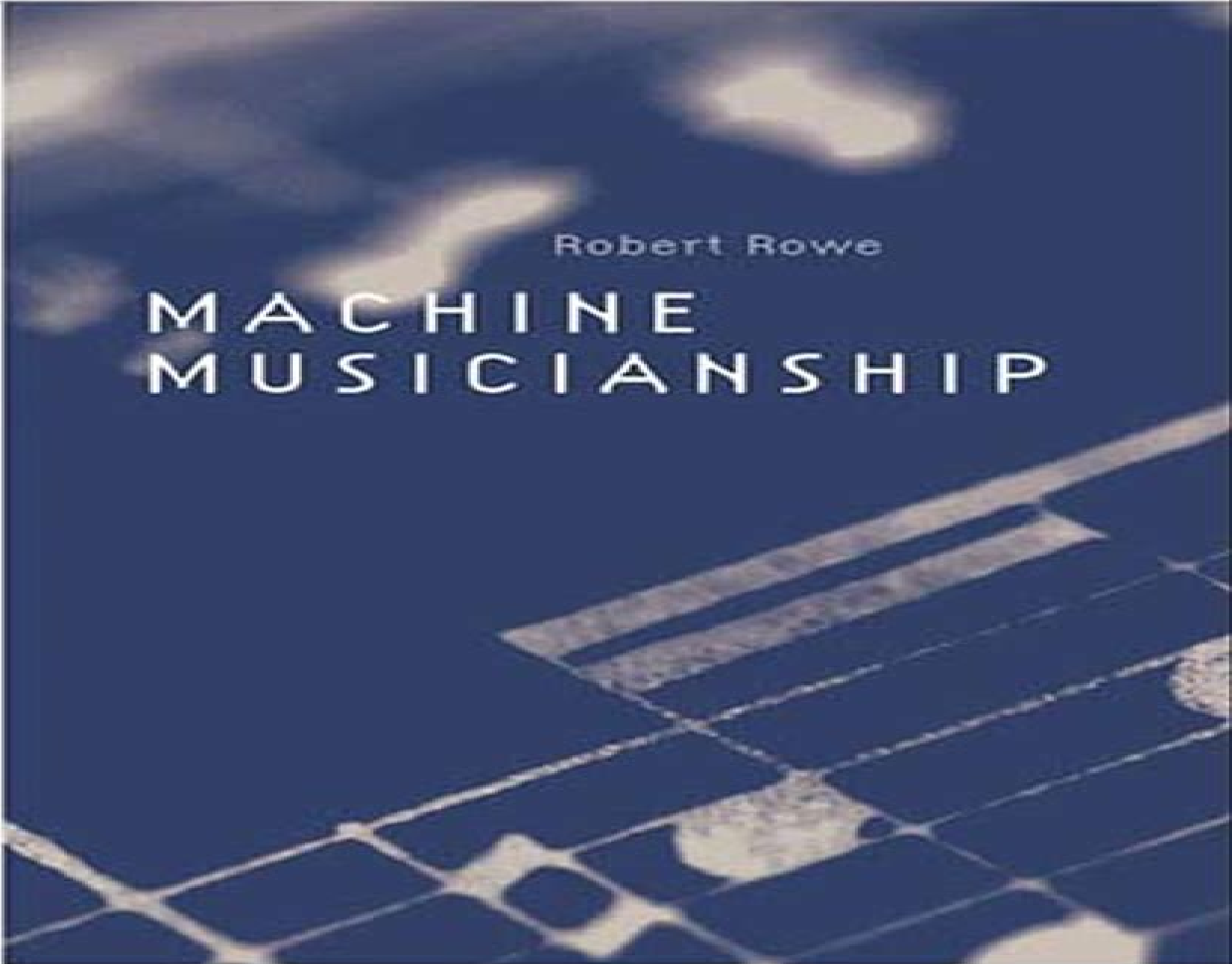


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Robert Rowe

MACHINE MUSICIANSHIP

Machine Musicianship

**Gil Weinberg, Mason Bretan, Guy
Hoffman, Scott Driscoll**



Machine Musicianship:

Machine Musicianship Robert Rowe, 2004-01-30 Musicians begin formal training by acquiring a body of musical concepts commonly known as musicianship These concepts underlie the musical skills of listening performance and composition Like humans computer music programs can benefit from a systematic foundation of musical knowledge This book explores the technology of implementing musical processes such as segmentation pattern processing and interactive improvisation in computer programs It shows how the resulting applications can be used to accomplish tasks ranging from the solution of simple musical problems to the live performance of interactive compositions and the design of musically responsive installations and Web sites Machine Musicianship is both a programming tutorial and an exploration of the foundational concepts of musical analysis performance and composition The theoretical foundations are derived from the fields of music theory computer music music cognition and artificial intelligence The book will be of interest to practitioners of those fields as well as to performers and composers The concepts are programmed using C and Max The accompanying CD ROM includes working versions of the examples as well as source code and a hypertext document showing how the code leads to the program s musical functionality

Robotic Musicianship Gil Weinberg, Mason Bretan, Guy Hoffman, Scott Driscoll, 2020-02-07 This book discusses the principles methodologies and challenges of robotic musicianship through an in depth review of the work conducted at the Georgia Tech Center for Music Technology GTCMT where the concept was first developed Robotic musicianship is a relatively new research field that focuses on the design and development of intelligent music making machines The motivation behind the field is to develop robots that not only generate music but also collaborate with humans by listening and responding in an expressive and creative manner This combination of human and machine creativity has the potential to surprise and inspire us to play listen compose and think about music in new ways The book provides an in depth view of the robotic platforms designed at the GTCMT Robotic Musicianship Group including the improvisational robotic percussionists Haile and Shimon the personal robotic companion Shimi and a number of wearable robots such as the Robotic Drumming Prosthesis The Third Drumming Arm and the Skywalker Piano Hand The book discusses numerous research studies based on these platforms in the context of five main principles Listen like a Human Play Like a Machine Be Social Watch and Learn and Wear It

The Oxford Handbook of Computer Music R. T. Dean, 2009-09-16 This handbook provides a cross section of the most field defining topics and debates in the field of computer music today From music cognition to pedagogy it situates computer music in the broad context of its creation and performance across the full range of issues that crop up in discourse in the field

Machines as Agency Christoph Lischka, Andrea Sick, 2015-07-15 This book supports and deepens the existing interfaces between art science and technology transgressing traditional principles and styles of research and selectively overcoming the side by side coexistence in favour of an integrated laboratory of the future Instead of relying on traditional dualisms like nature culture subject object as well

as man and machine heterogeneous networks with humans and non humans Latour are opened in shared contexts of agency New momentary propositions are developed meeting the complexity of discovering exploring and inventing things things which do not exist just as given beings The artists and theoreticians can pursue using the tools and techniques of science actively not only to comment them but also to fathom their possibilities and employ them in their artistic and scientific projects Machines as Agency is an artistic perspective *Electronic Music* Nick Collins,Margaret Schedel,Scott Wilson,2013-05-09 This accessible Introduction explores both mainstream and experimental manifestations of electronic music From early recording equipment to the most recent multimedia performances the history of electronic music is full of interesting characters fascinating and unusual music and radical technology Covering many different eras genres and media analyses of works appear alongside critical discussion of central ideas and themes making this an essential guide for anyone approaching the subject for the first time Chapters include key topics from synth pop to sound art from electronic dance music to electrical instruments and from the expression of pure sound to audiovisuals Highly illustrated and with a wide selection of examples the book provides many suggestions for further reading and listening to encourage students to begin their own experiments in this exciting field Music and Artificial Intelligence Christina Anagnostopoulou,Miguel Ferrand,Alan Smaill,2002-08-28 This book constitutes the refereed proceedings of the Second International Conference on Music and Artificial Intelligence ICMAI 2002 held in Edinburgh Scotland UK in September 2002 The 16 revised full papers presented together with abstracts of 2 invited talks were carefully reviewed and selected for inclusion in the proceedings Among the topics addressed are parsing for music and language patterns in music musical pattern recognition visualisation sound classification tonal structure representation musical learning systems pattern analysis musical perception melodic segmentation and time series analysis Introduction to Computer Music Nick Collins,2010-02-01 An up to date core undergraduate text Introduction to Computer Music deals with both the practical use of technology in music and the key principles underpinning the discipline It targets both musicians exploring computers and technologists engaging with music and does so in the confidence that both groups can learn tremendously from the cross disciplinary encounter It is designed to approach computer music as its own subject and strongly bridge the arts to computing divide benefiting and reconciling both musicians and computer scientists You will need little or no prior experience of computer programming itself and may not have an extensive background in mathematics or music but this highly engaging textbook will help you master many disciplines at once with a focus on both fascinating theories and exciting practical applications *The Digital Musician* Andrew Hugill,2018-09-03 The Digital Musician Third Edition is an introductory textbook for creative music technology and electronic music courses Written to be accessible to students from any musical background this book examines cultural awareness artistic identity and musical skills offering a system agnostic survey of digital music creation Each chapter presents creative projects that reinforce concepts as well as case studies of real musicians and discussion questions for

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Signal

Processing Methods for Music Transcription Anssi Klapuri, Manuel Davy, 2007-02-26 Signal Processing Methods for Music Transcription is the first book dedicated to uniting research related to signal processing algorithms and models for various aspects of music transcription such as pitch analysis rhythm analysis percussion transcription source separation instrument recognition and music structure analysis Following a clearly structured pattern each chapter provides a comprehensive review of the existing methods for a certain subtopic while covering the most important state of the art methods in detail The concrete algorithms and formulas are clearly defined and can be easily implemented and tested A number of approaches are covered including for example statistical methods perceptually motivated methods and unsupervised learning methods The text is enhanced by a common reference and index

Computer Music Modeling and Retrieval. Sense of Sounds Richard Kronland-Martinet, 2008-07-17 This book constitutes the thoroughly refereed post conference proceedings of the 4th International Computer Music Modeling and Retrieval Symposium CMMR 2007 held in Copenhagen Denmark in August 2007 jointly with the International Computer Music Conference 2007 ICMC 2007 The 33 revised full papers presented were carefully selected during two rounds of reviewing and improvement Due to the interdisciplinary nature of the area the papers address a broad variety of topics in computer science and engineering areas such as information retrieval programming human computer interaction digital libraries hypermedia artificial intelligence acoustics signal processing etc CMMR 2007 has put special focus on the Sense of Sounds from the synthesis and retrieval point of view This theme is pluridisciplinary by nature and associates the fields of sound modeling by analysis synthesis perception and cognition

Unveiling the Energy of Verbal Art: An Emotional Sojourn through **Machine Musicianship**

In a global inundated with displays and the cacophony of quick conversation, the profound energy and emotional resonance of verbal art usually diminish into obscurity, eclipsed by the regular onslaught of sound and distractions. Yet, situated within the lyrical pages of **Machine Musicianship**, a charming work of fictional elegance that impulses with fresh feelings, lies an wonderful journey waiting to be embarked upon. Penned by way of a virtuoso wordsmith, that exciting opus manuals readers on an emotional odyssey, softly revealing the latent possible and profound impact stuck within the delicate web of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is central subjects, dissect their fascinating writing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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