Readings in

COMPUTER-GENERATED MUSIC

Denis Baggi

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Juan J. Romero

Readings In Computer Generated Music:

Readings in Computer-generated Music Denis Baggi,1992 Computer Applications Arts and Humanities   *Readings in Music and Artificial Intelligence* Eduardo Reck Miranda,2013-10-28 The interplay between emotional and intellectual elements feature heavily in the research of a variety of scientific fields including neuroscience the cognitive sciences and artificial intelligence AI This collection of key introductory texts by top researchers worldwide is the first study which introduces the subject of artificial intelligence and music to beginners Eduardo Reck Miranda received a Ph D in music and artificial intelligence from the University of Edinburgh Scotland He has published several research papers in major international journals and his compositions have been performed worldwide Also includes 57 musical examples

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

,   Guide to Computing for Expressive Music Performance Alexis Kirke,Eduardo R. Miranda,2012-08-01 This book discusses all aspects of computing for expressive performance from the history of CSEMPs to the very latest research in addition to discussing the fundamental ideas and key issues and directions for future research Topics and features includes review questions at the end of each chapter presents a survey of systems for real time interactive control of automatic expressive music performance including simulated conducting systems examines two systems in detail YQX and IMAP each providing an example of a very different approach introduces techniques for synthesizing expressive non piano performances addresses the challenges found in polyphonic music expression from a statistical modelling point of view discusses the automated analysis of musical structure and the evaluation of CSEMPs describes the emerging field of embodied expressive musical performance devoted to building robots that can expressively perform music with traditional instruments

Mathematics and Music Gerard Assayag,Hans G. Feichtinger,2013-06-29 In Western Civilization Mathematics and Music have a long and interesting history in common with several interactions traditionally associated with the name of Pythagoras but also with a significant number of other mathematicians like Leibniz for instance Mathematical models can be found for

almost all levels of musical activities from composition to sound production by traditional instruments or by digital means Modern music theory has been incorporating more and more mathematical content during the last decades This book offers a journey into recent work relating music and mathematics It contains a large variety of articles covering the historical aspects the influence of logic and mathematical thought in composition perception and understanding of music and the computational aspects of musical sound processing The authors illustrate the rich and deep interactions that exist between Mathematics and Music   *Music and Artificial Intelligence* Christina Anagnostopoulou,Miguel Ferrand,Alan Smaill,2003-08-02 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 Sound Processing Davide Rocchesso,2003   **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 vocodor wavelets analysis by chaotic functions object oriented and artificial intelligence representations musical interfaces and the integration of signal processing techniques in concert performance   *Musical Networks* Niall Griffith,Peter M. Todd,1999 This volume presents the most up to date collection of neural network models of music and creativity gathered together in one place Chapters by leaders in the field cover new connectionist models of pitch perception tonality musical streaming sequential and hierarchical melodic structure composition harmonization rhythmic analysis sound generation and creative evolution The collection combines journal papers on connectionist modeling cognitive science and music perception with new papers solicited for this volume It also contains an extensive bibliography of related work Contributors Shumeet Baluja M I Bellgard Michael A Casey Garrison W Cottrell Peter Desain Robert O Gjerdingen Mike Greenhough Niall Griffith Stephen Grossberg Henkjan Honing Todd Jochem Bruce F Katz John F Kolen Edward W Large Michael C Mozer Michael P A Page Caroline Palmer Jordan B Pollack Dean Pomerleau Stephen W Smoliar Ian Taylor Peter M Todd C P Tsang Gregory M Werner   **Music and Schema Theory** Marc Leman,2012-12-06 Music is an important domain of application for schema theory The perceptual structures for pitch and timbre have been mapped via schemata with results that have contributed to a better understanding of music perception Yet we still need to know how a schema comes into existence or how it functions in a particular perception task This book

provides a foundation for the understanding of the emergence and functionality of schemata by means of computer based simulations of tone center perception It is about how memory structures self organize and how they use contextual information to guide perception   Music, Gestalt, and Computing Marc Leman,1997-09-10 This book presents a coherent state of the art survey on the area of systematic and cognitive musicology which has enjoyed dynamic growth now for many years It is devoted to exploring the relationships between acoustics human information processing and culture as well as to methodological issues raised by the widespread use of computers as a powerful tool for theory construction theory testing and the manipulation of musical information or any kind of data manipulation related to music   *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   **Rob Milne** Alan Bundy,Sean Wilson,2006 Rob Milne was a remarkable man He died of a heart attack on the 5th of June 2005 while climbing Mount Everest in Nepal He was a hi tech entrepreneur an AI researcher and a passionate mountaineer This work commemorates and celebrates the life of Rob Milne and covers various facets of Rob Milne s life   **Intelligent Music Information Systems: Tools and Methodologies** Shen, Jialie,Shepherd, John,Cui, Bin,Liu, Ling,2007-08-31 Modern technology and the development of user centric applications have grown to encompass many of our everyday routines and interests Such advances in music data management and information retrieval techniques have crossed the boundaries of expertise from researchers to developers to professionals in the music industry Intelligent Music Information Systems Tools and Methodologies provides comprehensive description and analysis into the use of music information retrieval from the data management perspective and thus provides libraries in academic commercial and other settings with a complete reference for multimedia system applications   Proceedings of the ... International Computer Music Conference ,1995   **The Art of Artificial Evolution** Juan J. Romero,2008 This comprehensive book gives an up to date survey of the relevant bioinspired computing research fields such as evolutionary computation artificial life swarm intelligence and ant colony algorithms and examines applications in art music and design The editors and contributors are researchers and artists with deep experience of the related science tools and applications and the book includes overviews of historical developments and future perspectives   **Soft**

Computing in Humanities and Social Sciences Rudolf Seising,Veronica Sanz González,2011-11-05 The field of Soft Computing in Humanities and Social Sciences is at a turning point The strong distinction between science and humanities has been criticized from many fronts and at the same time an increasing cooperation between the so called hard sciences and soft sciences is taking place in a wide range of scientific projects dealing with very complex and interdisciplinary topics In the last fifteen years the area of Soft Computing has also experienced a gradual rapprochement to disciplines in the Humanities and Social Sciences and also in the field of Medicine Biology and even the Arts a phenomenon that did not occur much in the previous years The collection of this book presents a generous sampling of the new and burgeoning field of Soft Computing in Humanities and Social Sciences bringing together a wide array of authors and subject matters from different disciplines Some of the contributors of the book belong to the scientific and technical areas of Soft Computing while others come from various fields in the humanities and social sciences such as Philosophy History Sociology or Economics Rudolf Seising received a Ph D degree in philosophy of science and a postdoctoral lecture qualification PD in history of science from the Ludwig Maximilians University of Munich He is an Adjoint Researcher at the European Centre for Soft Computing in Mieres Asturias Spain Veronica Sanz earned a Ph D in Philosophy at the University Complutense of Madrid Spain At the moment she is a Postdoctoral Researcher at the Science Technology and Society Center in the University of California at Berkeley Veronica Sanz earned a Ph D in Philosophy at the University Complutense of Madrid Spain At the moment she is a Postdoctoral Researcher at the Science Technology and Society Center in the University of California at Berkeley

Case-Based Reasoning Research and Development Klaus-Dieter Althoff,Ralph Bergmann,L. Karl Branting,2003-07-31 The biennial International Conference on Case Based Reasoning ICCBR ries which began in Sesimbra Portugal in 1995 was intended to provide an international forum for the best fundamental and applied research in case based reasoning CBR It was hoped that such a forum would encourage the g wth and rigor of the eld and overcome the previous tendency toward isolated national CBR communities The foresight of the original ICCBR organizers has been rewarded by the growth of a vigorous and cosmopolitan CBR community CBR is now widely recognized as a powerful and important computational technique for a wide range of practical applications By promoting an exchange of ideas among CBR researchers from across the globe the ICCBR series has facilitated the broader acceptance and use of CBR ICCBR 99 has continued this tradition by attracting high quality research and applications papers from around the world Researchers from 21 countries submitted 80 papers to ICCBR 99 From these submissions 17 papers were selected for long oral presentation 7 were accepted for short oral presentation and 19 papers were accepted as posters This volume sets forth these 43 papers which contain both mature work and innovative new ideas **Algorithmic Composition** Gerhard Nierhaus,2009-08-28 Algorithmic composition composing by means of formalizable methods has a century old tradition not only in occidental music history This is the first book to provide a detailed overview of prominent procedures of algorithmic composition in a pragmatic way rather than by treating

formalizable aspects in single works In addition to an historic overview each chapter presents a specific class of algorithm in a compositional context by providing a general introduction to its development and theoretical basis and describes different musical applications Each chapter outlines the strengths weaknesses and possible aesthetical implications resulting from the application of the treated approaches Topics covered are markov models generative grammars transition networks chaos and self similarity genetic algorithms cellular automata neural networks and artificial intelligence are covered The comprehensive bibliography makes this work ideal for the musician and the researcher alike

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