Music

and

# Connectionism



edited by

Peter M. Todd

arm of

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# **Music And Connectionism**

Peter M. Todd, D. Gareth Loy

#### **Music And Connectionism:**

Music and Connectionism Peter M. Todd, D. Gareth Loy, 1991 Annotation As one of our highest expressions of thought and creativity music has always been a difficult realm to capture model and understand The connectionist paradigm now beginning to provide insights into many realms of human behavior offers a new and unified viewpoint from which to investigate the subtleties of musical experience Music and Connectionism provides a fresh approach to both fields using the techniques of connectionism and parallel distributed processing to look at a wide range of topics in music research from pitch perception to chord fingering to composition The contributors leading researchers in both music psychology and neural networks address the challenges and opportunities of musical applications of network models. The result is a current and thorough survey of the field that advances understanding of musical phenomena encompassing perception cognition composition and performance and in methods for network design and analysis Peter M Todd is a doctoral candidate in the PDP Research Group of the Psychology Department at Stanford University Gareth Loy is an award winning composer a lecturer in the Music Department of the University of California San Diego and a member of the technical staff of Frox Inc Contributors Jamshed J Bharucha Peter Desain Mark Dolson Robert Gjerclingen Henkjan Honing B Keith Jenkins Jacqueline Jons Douglas H Keefe Tuevo Kohonen Bernice Laden Pauli Laine Otto Laske Marc Leman J P Lewis Christoph Lischka D Gareth Loy Ben Miller Michael Mozer Samir I Sayegh Hajime Sano Todd Soukup Don Scarborough Kalev Tiits Peter M Todd Language and Music as Cognitive Systems Patrick Rebuschat, 2012 The past 15 years have witnessed an Kari Torkkola increasing interest in the comparative study of language and music as cognitive systems. This book presents an interdisciplinary study of language and music exploring the following core areas structural comparisons evolution learning and processing and neuroscience Connectionist Models of Learning, Development and Evolution Robert M. French, Jacques P. Sougne, 2012-12-06 Connectionist Models of Learning Development and Evolution comprises a selection of papers presented at the Sixth Neural Computation and Psychology Workshop the only international workshop devoted to connectionist models of psychological phenomena With a main theme of neural network modelling in the areas of evolution learning and development the papers are organized into six sections. The neural basis of cognition Development and category learning Implicit learning Social cognition Evolution Semantics Covering artificial intelligence mathematics psychology neurobiology and philosophy it will be an invaluable reference work for researchers and students working on connectionist modelling in computer science and psychology or in any area related to cognitive science Artificial Neural Networks in Real-life Applications Juan Ramon Rabunal, Julian Dorado, 2006-01-01 This book offers an outlook of the most recent works at the field of the Artificial Neural Networks ANN including theoretical developments and applications of systems using intelligent characteristics for adaptability Provided by publisher 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

Connectionist Representations of Tonal Music Michael R. W. Dawson, 2018-03-13 Previously artificial neural networks have been used to capture only the informal properties of music However cognitive scientist Michael Dawson found that by training artificial neural networks to make basic judgments concerning tonal music such as identifying the tonic of a scale or the quality of a musical chord the networks revealed formal musical properties that differ dramatically from those typically presented in music theory For example where Western music theory identifies twelve distinct notes or pitch classes trained artificial neural networks treat notes as if they belong to only three or four pitch classes a wildly different interpretation of the components of tonal music Intended to introduce readers to the use of artificial neural networks in the study of music this volume contains numerous case studies and research findings that address problems related to identifying scales keys classifying musical chords and learning jazz chord progressions A detailed analysis of the internal structure of trained networks could yield important contributions to the field of music cognition 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 **Advances in Computers**, 1993-06-07 Advances in Computers Perception And Cognition Of Music Irene Deliege, John A. Sloboda, 2004-08-02 This text comprises of papers relating to music and mind It presents a range of approaches from the psychological through the computational to the musicological **History of Western Music Theory** Thomas Christensen, 2006-04-20 The Cambridge History of Western Music Theory is the first comprehensive history of Western music theory to be published in the English language A collaborative project by leading music theorists and historians the volume traces the rich panorama of music theoretical thought from the Ancient Greeks to the present day Recognizing the variety and complexity of music theory as an historical subject the volume has been organized within a flexible framework Some chapters are defined chronologically within a restricted historical domain whilst others are defined conceptually and span longer historical periods Together the thirty one chapters present a synthetic overview of the fascinating and complex subject that is historical music theory Richly enhanced with illustrations graphics examples and cross citations as well as being thoroughly indexed and supplemented by comprehensive bibliographies of the most important primary and secondary literature this book will be an invaluable resource for students and scholars alike

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

Discoveries and Breakthroughs in Cognitive Informatics and Natural Intelligence Wang, Yingxu,2009-11-30 Cognitive informatics is a multidisciplinary field that acts as the bridge between natural science and information science Specifically it investigates the potential applications of information processing and natural intelligence to science and engineering disciplines This collection entitled Discoveries and Breakthroughs in Cognitive Informatics and Natural Intelligence provides emerging research topics in cognitive informatics research with a focus on such topics as reducing cognitive overload real time process algebra and neural networks for iris recognition emotion recognition in speech and the classification of musical

chords Connectionism in Perspective R. Pfeifer, Z. Schreter, F. Fogelman-Soulié, L. Steels, 1989-08-23 An evaluation of the merits potential and limits of Connectionism this book also illustrates current research programs and recent trends Connectionism also known as Neural Networks is an exciting new field which has brought together researchers from different areas such as artificial intelligence computer science cognitive science neuroscience physics and complex dynamics These researchers are applying the connectionist paradigm in an interdisciplinary way to the analysis and design of intelligent systems In this book researchers from the above mentioned fields not only report on their most recent research results but also describe Connectionism from the perspective of their own field looking at issues such as the effects and the utility of Connectionism for their field the potential and limitations of Connectionism can it be combined with other approaches 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 Stephen T. Pope, 1991 Object oriented programming OOP is perhaps the most important new software engineering technology of the past decade and promises to be a key factor in much of the software of the 1990s This edited collection of articles from Computer Music Journal provides a timely and convenient source of tutorials on OOP languages and software design techniques and surveys a wide range of existing applications of this technology to music and digital signal processing Included are the popular OOP languages LISP Smalltalk 80 and Objective C and applications such as music description and composition real time performance and digital signal processing **Transactions on Rough Sets I** James F. Peters, Andrzej Skowron, 2004-07-05 The LNCS journal Transactions on Rough Sets is devoted to the entire spectrum of rough sets related issues starting from logical and mathematical foundations through all aspects of rough set theory and its applications such as data mining knowledge discovery and intelligent information processing to relations between rough sets and other approaches to uncertainty vagueness and incompleteness such as fuzzy sets and theory of evidence This first volume of the Transactions on Rough Sets opens with an introductory article by Zdzislaw Pawlak the originator of rough sets Nine papers deal with rough set theory and eight are devoted to applications in various domains **Proceedings of the Fifteenth** Annual Conference of the Cognitive Science Society Science Society Cognitive, Con, POLSON, 1993 This volume features the complete text of all regular papers posters and summaries of symposia presented at the 15th annual meeting of the

Cognitive Science Society Prospects for Artificial Intelligence Aaron Sloman, David Hogg, Glyn W. Humphreys, A. Ramsay, Derek Partridge, 1993-02-28 Dealing with the theme of prospects for artificial intelligence as the general science of intelligence this work covers a wide range of topics It attempts to identify trends and projects into the future instead of simply surveying past achievements Modelling Musical Cognition with Artificial Neural Networks Petri Toiviainen, 1996 Yhteenveto Musiikin kognition mallintaminen keinotekoisilla hermoverkoilla

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