

READINGS IN MUSIC AND ARTIFICIAL INTELLIGENCE

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Readings In Music And Artificial Intelligence

**Pierre Marquis, Odile Papini, Henri
Prade**



Readings In Music And Artificial Intelligence:

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Handbook of Artificial Intelligence for Music Eduardo Reck Miranda, 2021-07-02 This book presents comprehensive coverage of the latest advances in research into enabling machines to listen to and compose new music It includes chapters introducing what we know about human musical intelligence and on how this knowledge can be simulated with AI The development of interactive musical robots and emerging new approaches to AI based musical creativity are also introduced including brain computer music interfaces bio processors and quantum computing Artificial Intelligence AI technology permeates the music industry from management systems for recording studios to recommendation systems for online commercialization of music through the Internet Yet whereas AI for online music distribution is well advanced this book focuses on a largely unexplored application AI for creating the actual musical content *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 **A Guided Tour of Artificial Intelligence Research** Pierre Marquis, Odile Papini, Henri Prade, 2020-05-08 The purpose of this book is to provide an overview of AI research ranging from basic work to interfaces and applications with as much emphasis on results as on current issues It is aimed at an audience of master students and Ph D students and can be of interest as well for researchers and engineers who

want to know more about AI The book is split into three volumes the first volume brings together twenty three chapters dealing with the foundations of knowledge representation and the formalization of reasoning and learning Volume 1 Knowledge representation reasoning and learning the second volume offers a view of AI in fourteen chapters from the side of the algorithms Volume 2 AI Algorithms the third volume composed of sixteen chapters describes the main interfaces and applications of AI Volume 3 Interfaces and applications of AI This third volume is dedicated to the interfaces of AI with various fields with which strong links exist either at the methodological or at the applicative levels The foreword of this volume reminds us that AI was born for a large part from cybernetics Chapters are devoted to disciplines that are historically sisters of AI natural language processing pattern recognition and computer vision and robotics Also close and complementary to AI due to their direct links with information are databases the semantic web information retrieval and human computer interaction All these disciplines are privileged places for applications of AI methods This is also the case for bioinformatics biological modeling and computational neurosciences The developments of AI have also led to a dialogue with theoretical computer science in particular regarding computability and complexity Besides AI research and findings have renewed philosophical and epistemological questions while their cognitive validity raises questions to psychology The volume also discusses some of the interactions between science and artistic creation in literature and in music Lastly an epilogue concludes the three volumes of this Guided Tour of AI Research by providing an overview of what has been achieved by AI emphasizing AI as a science and not just as an innovative technology and trying to dispel some misunderstandings

Music and AI Alexandra Bonnici, Roger B. Dannenberg, Steven Kemper, Kenneth P. Camilleri, 2021-03-16 **Emerging Challenges in Intelligent Management Information Systems** Marcin Hernes, Jaroslaw Wątróbski, Artur Rot, 2024-12-18 This book contains the second volume of proceedings of the ECAI 2024 Workshop on Intelligent Management Information Systems IMIS 2024 IMIS 2024 was part of the 27th European Conference on Artificial Intelligence ECAI 2024 held in Santiago de Compostela from October 19 2024 to October 24 2024 The book discusses emerging challenges related to implementing artificial intelligence in management information systems The main focus is put on knowledge management and machine learning methods in information systems artificial intelligence for decision support systems intelligent customer management methods hybrid artificial intelligence and multiple criteria decision analysis methods and advanced computational methods for support business processes and decision making The book is divided into three major parts covering the main issues related to the topic The first part presents issues related to the knowledge management in intelligent information systems The second part is devoted to application of machine learning in management information systems The third part presents problems related to multiple criteria decision analysis and computational methods The book has an interdisciplinary character therefore it is intended for a broad scope of readers including researchers students managers and employees of business organizations software developers IT and management specialists Innovation in

Music: Adjusting Perspectives Jan-Olof Gullö, Russ Hepworth-Sawyer, Dave Hook, Mark Marrington, Justin Paterson, Rob Toulson, 2024-12-30 Innovation in Music Adjusting Perspectives brings together cutting edge research on new innovations in the field of music production technology performance and business With contributions from a host of well respected researchers and practitioners this volume provides crucial coverage on the relationship between innovation and rebellion Including chapters on generative AI gender equality live music quantisation and composition this book is recommended reading for music industry researchers working in a range of fields as well as professionals interested in industry innovations

The Rhetoric and Symbolism of Forms in Romantic Music Patrick Saint-Dizier, 2020-03-17 This book explores the contribution of the symbolic aspects of musical forms and structures to rhetoric and argumentation during the Romantic period While there are several studies on this topic dedicated to the Baroque era there are much fewer contributions on the Romantic period This book shows that the aesthetics of Romantic music are very strong persuasive and expressive and are paramount for communicating in our everyday life Investigating the impact of musical structures on our cognitive and psychological attitudes is the central issue of this book Within a cognitive science perspective it introduces the different elements of meaning conveyed by music through an analysis of several major works of composers of the Romantic era As such the book is an accessible introduction to anyone with a basic background in music and will be of interest to teachers and researchers in music psychology cognition linguistics and computer science

Applications of Evolutionary Computing Günther Raidl, 2003-04-07 This book constitutes the joint refereed proceedings of six workshops EvoWorkshops 2003 held together with EuroGP 2003 in Essex UK in April 2003 The 63 revised full papers presented were carefully reviewed and selected from a total of 109 submissions In accordance with the six workshops covered the papers are organized in topical sections on bioinformatics combinatorial optimization image analysis and signal processing evolutionary music and art evolutionary robotics and scheduling and timetabling

Mankind - music - technology Martin Flašar, 2024-01-01 Kniha je v sledkém trval ho zaujet autora pro hudbu 20 a po naj c ho 21 stolet a jeho celo ivotn ho z jmu o technologie Jak artifici ln komponovanou hudbu posledn ch desetilet ovliv uje v voj techniky Jak se nov technologie prom taj do hudebn ho my len skladatel Pr v na tyto ot zky p in kniha odpov di

Evolutionary and Biologically Inspired Music, Sound, Art and Design Colin Johnson, Vic Ciesielski, João Correia, Penousal Machado, 2016-03-16 This book constitutes the refereed proceedings of the 5th International Conference on Evolutionary and Biologically Inspired Music Sound Art and Design EvoMUSART 2016 held in Porto Portugal in March April 2016 co located with the Evo 2016 events EuroGP EvoCOP and EvoApplications The 17 revised full papers presented were carefully reviewed and selected from 25 submissions The papers cover a wide range of topics and application areas including generative approaches to music graphics game content and narrative music information retrieval computational aesthetics the mechanics of interactive evolutionary computation and the art theory of evolutionary computation

A Guide to Research in Music Education Roger P. Phelps, 2005 This Fifth

Edition presents an updated and practical approach to the research concepts techniques and sources from the 4th edition A new chapter concerning music and technology covers the current available resources for students and researchers Other updates include separate chapters on philosophical inquiry and aesthetic inquiry becoming integrated formulating and implementing research problems and aligning qualitative research with recent concepts and techniques This is an essential tool for students tackling problems as varied as research proposals field research strategies data analysis and statistical techniques Researchers will find current sources and concise instruction in the formulation of a research proposal its implementation and dissemination of research results

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

Smart Learning Ecosystems as Engines of the Green and Digital Transition Mihai Dascalu, Óscar Mealha, Sirje Virkus, 2023-09-26 The book brings together the contributions of the 8th International Conference on Smart Learning Ecosystems and Regional Development aimed at promoting reflection and discussion on the relevance of smart learning ecosystems for regional development and social innovation e g schools campuses working places informal learning contexts and on how the effectiveness of the relation of citizens and smart ecosystems can be boosted This forum is interested in understanding how technology mediated instruments can foster the citizen s engagement with learning ecosystems and territories namely by understanding innovative human centric design and development models techniques education training practices informal social learning innovative citizen driven policies technology mediated experiences and their impact This set of concerns contributes to fostering the social innovation sectors and ICT economic development and deployment strategies alongside new policies for smarter proactive citizens

Guide to Brain-Computer Music Interfacing Eduardo Reck Miranda, Julien Castet, 2014-10-03 This book presents a world class collection of Brain Computer Music Interfacing BCMI tools The text focuses on how these tools enable the extraction of meaningful control information from brain signals and discusses how to design effective generative music techniques that respond to this information Features reviews important techniques for hands free interaction with computers including event

related potentials with P300 waves explores questions of semiotic brain computer interfacing BCI and the use of machine learning to dig into relationships among music and emotions offers tutorials on signal extraction brain electric fields passive BCI and applications for genetic algorithms along with historical surveys describes how BCMI research advocates the importance of better scientific understanding of the brain for its potential impact on musical creativity presents broad coverage of this emerging interdisciplinary area from hard core EEG analysis to practical musical applications

The Cambridge Companion to Electronic Music Nick Collins, Julio d'Escrivan, 2017-10-30 Musicians are always quick to adopt and explore new technologies The fast paced changes wrought by electrification from the microphone via the analogue synthesiser to the laptop computer have led to a wide range of new musical styles and techniques Electronic music has grown to a broad field of investigation taking in historical movements such as musique concrète and elektronische Musik and contemporary trends such as electronic dance music and electronica The first edition of this book won the 2009 Nicolas Bessaraboff Prize as it brought together researchers at the forefront of the sonic explorations empowered by electronic technology to provide accessible and insightful overviews of core topics and uncover some hitherto less publicised corners of worldwide movements This updated and expanded second edition includes four entirely new chapters as well as new original statements from globally renowned artists of the electronic music scene and celebrates a diverse array of technologies practices and music

Music and Human-Computer Interaction Simon Holland, Katie Wilkie, Paul Mulholland, Allan Seago, 2013-03-12 This agenda setting book presents state of the art research in Music and Human Computer Interaction also known as Music Interaction Music Interaction research is at an exciting and formative stage Topics discussed include interactive music systems digital and virtual musical instruments theories methodologies and technologies for Music Interaction Musical activities covered include composition performance improvisation analysis live coding and collaborative music making Innovative approaches to existing musical activities are explored as well as tools that make new kinds of musical activity possible Music and Human Computer Interaction is stimulating reading for professionals and enthusiasts alike researchers musicians interactive music system designers music software developers educators and those seeking deeper involvement in music interaction It presents the very latest research discusses fundamental ideas and identifies key issues and directions for future work

Artificial Intelligence in Education R. Luckin, K.R. Koedinger, J. Greer, 2007-06-29 The nature of technology has changed since Artificial Intelligence in Education AIED was conceptualised as a research community and Interactive Learning Environments were initially developed Technology is smaller more mobile networked pervasive and often ubiquitous as well as being provided by the standard desktop PC This creates the potential for technology supported learning wherever and whenever learners need and want it However in order to take advantage of this potential for greater flexibility we need to understand and model learners and the contexts with which they interact in a manner that enables us to design deploy and evaluate technology to most effectively support learning across multiple

locations subjects and times The AIED community has much to contribute to this endeavour This publication contains papers posters and tutorials from the 2007 Artificial Intelligence in Education conference in Los Angeles CA USA

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