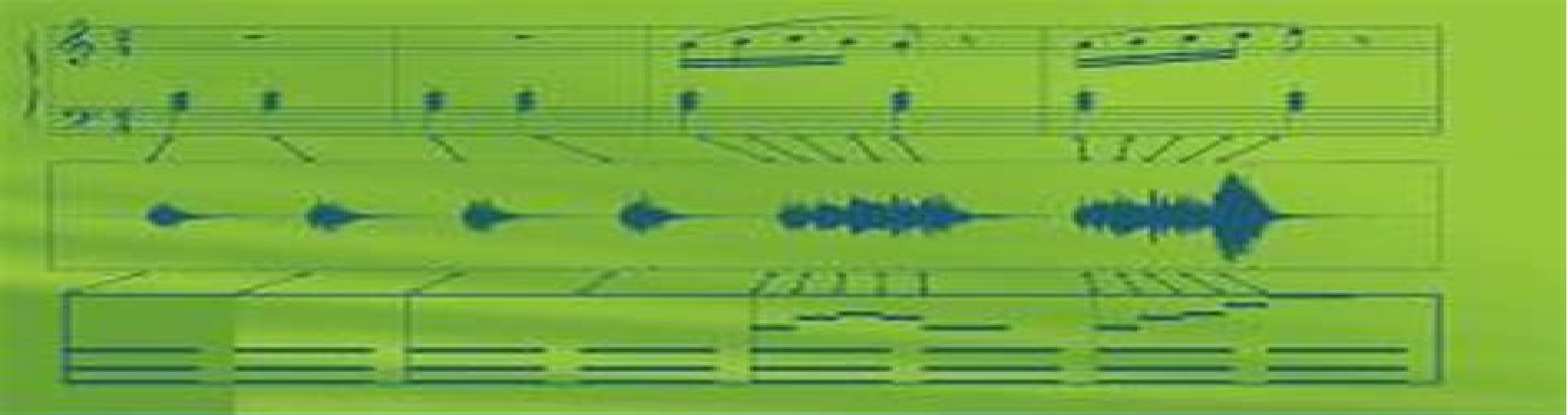




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Information Retrieval for Music and Motion



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Information Retrieval for Music and Motion Meinard Müller, 2007-09-09 A general scenario that has attracted a lot of attention for multimedia information retrieval is based on the query by example paradigm retrieve all documents from a database containing parts or aspects similar to a given data fragment However multimedia objects even though they are similar from a structural or semantic viewpoint often reveal significant spatial or temporal differences This makes content based multimedia retrieval a challenging research field with many unsolved problems Meinard Müller details concepts and algorithms for robust and efficient information retrieval by means of two different types of multimedia data waveform based music data and human motion data In Part I he discusses in depth several approaches in music information retrieval in particular general strategies as well as efficient algorithms for music synchronization audio matching and audio structure analysis He also shows how the analysis results can be used in an advanced audio player to facilitate additional retrieval and browsing functionality In Part II he introduces a general and unified framework for motion analysis retrieval and classification highlighting the design of suitable features the notion of similarity used to compare data streams and data organization The detailed chapters at the beginning of each part give consideration to the interdisciplinary character of this field covering information science digital signal processing audio engineering musicology and computer graphics This first monograph specializing in music and motion retrieval appeals to a wide audience from students at the graduate level and lecturers to scientists working in the above mentioned fields in academia or industry Lecturers and students will benefit from the didactic style and each unit is suitable for stand alone use in specialized graduate courses Researchers will be interested in the detailed description of original research results and their application in real world browsing and retrieval scenarios

Information Retrieval for Music and Motion Meinard Müller, 2009-09-02 Content based multimedia retrieval is a challenging research field with many unsolved problems This monograph details concepts and algorithms for robust and efficient information retrieval of two different types of multimedia data waveform based music data and human motion data It first examines several approaches in music information retrieval in particular general strategies as well as efficient algorithms The book then introduces a general and unified framework for motion analysis retrieval and classification highlighting the design of suitable features the notion of similarity used to compare data streams and data organization

Sound, Music, and Motion Mitsuko Aramaki, Olivier Derrien, Richard Kronland-Martinet, Sølvi Ystad, 2014-12-04 This book constitutes the thoroughly refereed post conference proceedings of the 10th International Symposium on Computer Music Modeling and Retrieval CMMR 2013 held in Marseille France in October 2013 The 38 conference papers presented were carefully reviewed and selected from 94 submissions The chapters reflect the interdisciplinary nature of this conference with following topics augmented musical instruments and gesture recognition music and emotions representation recognition and audience performers studies the art of sonification when auditory cues shape human sensorimotor performance music

and sound data mining interactive sound synthesis non stationarity dynamics and mathematical modeling image sound interaction auditory perception and cognitive inspiration and modeling of sound and music computational musicology

Recommender Systems for Medicine and Music Zbigniew W. Ras,Alicja Wieczorkowska,Shusaku

Tsumoto,2021-04-07 Music recommendation systems are becoming more and more popular The increasing amount of personal data left by users on social media contributes to more accurate inference of the user s musical preferences and the same to quality of personalized systems Health recommendation systems have become indispensable tools in decision making processes in the healthcare sector Their main objective is to ensure the availability of valuable information at the right time by ensuring information quality trustworthiness authentication and privacy concerns Medical doctors deal with various kinds of diseases in which the music therapy helps to improve symptoms Listening to music may improve heart rate respiratory rate and blood pressure in people with heart disease Sound healing therapy uses aspects of music to improve physical and emotional health and well being The book presents a variety of approaches useful to create recommendation systems in healthcare music and in music therapy *Motion in Games* Jan Allbeck,Petros Faloutsos,2011-10-28 This book constitutes the proceedings of the 4th International Workshop on Motion in Games held in Edinburgh UK in November 2011 The 30 revised full papers presented together with 8 revised poster papers in this volume were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on character animation motion synthesis physically based character motion behavior animation animation systems crowd simulation as well as path planning and navigation

Machine Learning and Data Mining for Sports Analytics Ulf Brefeld,Jesse Davis,Jan Van Haaren,Albrecht

Zimmermann,2023-02-24 This book constitutes the refereed proceedings of the 9th International Workshop on Machine Learning and Data Mining for Sports Analytics MLSA 2022 held in Grenoble France during September 19 2022 The 10 full papers included in this book were carefully reviewed and selected from 18 submissions They were organized in topical sections as follows Football Racket sports Cycling

Speech, Sound and Music Processing: Embracing Research in India Sølvi Ystad,Mitsuko Aramaki,Richard Kronland-Martinet,Kristoffer Jensen,Sanghamitra Mohanty,2012-07-02 This book constitutes the thoroughly refereed post proceedings of the 8th International Symposium on Computer Music Modeling and Retrieval CMMR 2011 and the 20th International Symposium on Frontiers of Research in Speech and Music FRSM 2011 This year the 2 conferences merged for the first time and were held in Bhubanes India in March 2011 The 17 revised full papers presented were specially reviewed and revised for inclusion in this proceedings volume The book is divided in four main chapters which reflect the high quality of the sessions of CMMR 2011 the collaboration with FRSM 2011 and the Indian influence in the topics of Indian Music Music Information Retrieval Sound analysis synthesis and perception and Speech processing of Indian languages

Together in Music Renee Timmers,Freya Bailes,Helena Daffern,2022 Recent years have seen a rise in interest in the musical ensemble as an exemplary form of creative group behavior This volume explores the

organizational psychological and social processes at play within ensemble music making **The Routledge Companion to Embodied Music Interaction** Micheline Lesaffre, Pieter-Jan Maes, Marc Leman, 2017-09-19 The Routledge Companion to Embodied Music Interaction captures a new paradigm in the study of music interaction as a wave of recent research focuses on the role of the human body in musical experiences This volume brings together a broad collection of work that explores all aspects of this new approach to understanding how we interact with music addressing the issues that have roused the curiosities of scientists for ages to understand the complex and multi faceted way in which music manifests itself not just as sound but also as a variety of cultural styles not just as experience but also as awareness of that experience With contributions from an interdisciplinary and international array of scholars including both empirical and theoretical perspectives the Companion explores an equally impressive array of topics including Dynamical music interaction theories and concepts Expressive gestural interaction Social music interaction Sociological and anthropological approaches Empowering health and well being Modeling music interaction Music based interaction technologies and applications This book is a vital resource for anyone seeking to understand human interaction with music from an embodied perspective

Library of Congress Subject Headings Library of Congress, 2010 *Library of Congress Subject Headings* Library of Congress. Cataloging Policy and Support Office, 2009 **Library of Congress Subject Headings: F-O** Library of Congress. Subject Cataloging Division, 1989 **Learning to Listen, Listening to Learn** Marcus T. Pearce, 2025-05-28 What accounts for the variety of music witnessed across the world The answer lies in the psychological mechanisms of cultural evolution that combine a creative process of composing ever new forms of music and a perceptual process of learning to appreciate listening to them This book develops and tests a theory of the psychological mechanisms that enable listeners to learn the structure of their culturally situated musical environments so as to be able to perceive and appreciate music The central hypothesis is that music perception depends critically on mechanisms of statistical learning and probabilistic prediction These mechanisms are implemented in a computational model whose behaviour is analysed in detail through simulations of psychological experiments The results demonstrate that the model can account for predictions generated by listeners for the pitch timing and harmonies of music While prediction is an important psychological mechanism in and of itself the evidence presented shows how it also lays the foundation for a broader account of music perception encompassing memory auditory scene analysis similarity perception complexity perception affect and aesthetic experience The proposed theory makes concrete predictions for differences in perception between listeners from different cultures and the developmental trajectories that result in these differences These predictions are tested and corroborated with respect to both the incidental cultural experience of non musicians and the formal cultural training of musicians Because the approach rests fundamentally on mechanisms of statistical learning it generalises naturally to other cultural domains including natural language visual media and dance **The Oxford Handbook of Sound and Imagination, Volume 2** Mark Grimshaw-Aagaard, Mads

Walther-Hansen, Martin Knakkegaard, 2019-07-26 Whether social cultural or individual the act of imagination always derives from a pre existing context For example we can conjure an alien s scream from previously heard wildlife recordings or mentally rehearse a piece of music while waiting for a train This process is no less true for the role of imagination in sonic events and artifacts Many existing works on sonic imagination tend to discuss musical imagination through terms like compositional creativity or performance technique In this two volume Handbook contributors shift the focus of imagination away from the visual by addressing the topic of sonic imagination and expanding the field beyond musical compositional creativity and performance technique into other aural arenas where the imagination holds similar power Topics covered include auditory imagery and the neurology of sonic imagination aural hallucination and illusion use of metaphor in the recording studio the projection of acoustic imagination in architectural design and the design of sound artifacts for cinema and computer games Proceedings of the 11th Conference on Sound and Music Technology Kun Qian, Li Zhou, Qinglin Meng, Yongwei Gao, 2025-07-22 This book presents selected papers at the 11th Conference on Sound and Music Technology CSMT held in October 2024 Wuhan China CSMT is a multidisciplinary conference focusing on audio processing and understanding with bias on music and acoustic signals The primary aim of the book is to promote the collaboration between art society and technical society in China In this book the paper included covers a wide range topic from speech signal processing music understanding machine learning and signal processing for advanced medical diagnosis and treatment applications which demonstrates the target of CSMT merging arts and science research together Its content caters to scholars researchers engineers artists and education practitioners not only from academia but also industry who are interested in audio acoustics analysis signal processing music sound and artificial intelligence AI Sound and Music Computing Tapio Lokki, Stefania Serafin, Meinard Müller, Vesa Välimäki, 2018-06-26 This book is a printed edition of the Special Issue Sound and Music Computing that was published in Applied Sciences **A-E** Library of Congress. Office for Subject Cataloging Policy, 1990 *The Oxford Handbook of Sound and Imagination* Mark Grimshaw, Mark Grimshaw-Aagaard, Mads Hansen, Martin Knakkegaard, 2019 In this two volume Handbook contributors address the tendency to discuss musical imagination through terms like compositional creativity or performance technique correcting the current bias towards visual imagination to instead highlight the many forms of sonic and musical imagination **The ^AOxford Handbook of Time in Music** Mark Doffman, Emily Payne, Toby Young, 2021-12-17 The Oxford Handbook of Time in Music brings together philosophical psychological and socio cultural understandings of time in music highlighting the act of making as both cultural construction while also referring to the perceptual cognitive underpinnings that allow us to make sense of time in music **Library of Congress Subject Headings** Library of Congress. Office for Subject Cataloging Policy, 1992

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