

Springer Series on Cultural Computing

Simon Holland  
Katie Wilkie  
Paul Mulholland  
Allan Seago *Editors*

# Music and Human- Computer Interaction

 Springer

# Music And Human Computer Interaction Springer Series On Cultural Computing

**Micheline Lesaffre, Pieter-Jan  
Maes, Marc Leman**



## **Music And Human Computer Interaction Springer Series On Cultural Computing:**

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

**New Directions in Music and Human-Computer Interaction** Simon Holland,Tom Mudd,Katie Wilkie-McKenna,Andrew McPherson,Marcelo M. Wanderley,2019-02-06 Computing is transforming how we interact with music New theories and new technologies have emerged that present fresh challenges and novel perspectives for researchers and practitioners in music and human computer interaction HCI In this collection the interdisciplinary field of music interaction is considered from multiple viewpoints designers interaction researchers performers composers audiences teachers and learners dancers and gamers The book comprises both original research in music interaction and reflections from leading researchers and practitioners in the field It explores a breadth of HCI perspectives and methodologies from universal approaches to situated research within particular cultural and aesthetic contexts Likewise it is musically diverse from experimental to popular classical to folk including tango laptop orchestras composition and free improvisation

Embodied Human-Computer Interaction in Vocal Music Performance Franziska Baumann,2023-01-09 This SpringerBrief provides a unique insight into the practice and research of the connections between voice HCI and embodiment Specifically it explores how the voice can be embodied and mediated by means of gestural communication through sensor interfaces and aims to situate and contextualise various aspects that generate meaningful connections in such interactive interface performance The author offers an approach for understanding creative practices between humans and computers in gestural live music performance from the perspective of the embodied relationships created within such systems Underlying practices principles and sensor technologies that support creativity in embodied human computer interaction in vocal music performance are examined and a dynamic framework and tools for anyone wishing to engage with this subject in depth are presented The book is essential reading not only for musicians composers researchers application developers musicologists and educators but also for students and tertiary institutions as well as actors and dramaturgs in a music context *Culture and Computing* Matthias Rauterberg,2025-07-01 This book constitutes the refereed proceedings of the 13th International

Conference on Culture and Computing held as part of the 27th International Conference HCI International 2025 which took place in Gothenburg Sweden during June 22 27 2025 The total of 1430 papers and 355 posters included in the HCII 2025 proceedings was carefully reviewed and selected from 7972 submissions Two volumes of the HCII 2025 proceedings are dedicated to this year's edition of the C Health and Well Being and Bie Modernism and Cultural Computing Music and AI

Alexandra Bonnici,Roger B. Dannenberg,Steven Kemper,Kenneth P. Camilleri,2021-03-16 **Human-Computer**

**Interaction - INTERACT 2015** Julio Abascal,Simone Barbosa,Mirko Fetter,Tom Gross,Philippe Palanque,Marco

Winckler,2015-08-31 The four volume set LNCS 9296 9299 constitutes the refereed proceedings of the 15th IFIP TC13

International Conference on Human Computer Interaction INTERACT 2015 held in Bamberg Germany in September 2015

The 47 papers included in the second volume are organized in topical sections on computer supported cooperative work and social computing end user development evaluation methods usability evaluation eye tracking gesture interaction HCI and security HCI for developing regions and social development HCI for education

*Designing Interactions for Music and Sound* Michael Filimowicz,2022-04-19 Designing Interactions for Music and Sound presents multidisciplinary research and

case studies in electronic music production dance composer collaboration AI tools for live performance multimedia works installations in public spaces locative media AR VR MR XR and health As the follow on volume to Foundations in Sound

Design for Interactive Media the authors cover key practices technologies and concepts such as classifications design

guidelines and taxonomies of programs interfaces sensors spatialization and other means for enhancing musical expressivity controllerism i e the techniques of non musician performers of electronic music who utilize MIDI OSC and wireless

technologies to manipulate sound in real time artificial intelligence tools used in live club music soundscape poetics and research creation based on audio walks environmental attunement and embodied listening new sound design techniques for

VR AR MR XR that express virtual human motion and the use of interactive sound in health contexts such as designing sonic interfaces for users with dementia Collectively the chapters illustrate the robustness and variety of contemporary interactive

sound design research creativity and its many applied contexts for students teachers researchers and practitioners

**Cultures in Human-Computer Interaction** Sergio Sayago,2023-04-25 This book provides an interdisciplinary synthesis of the topic of culture in the context of Human Computer Interaction HCI and a structured overview of a large body of HCI research on and with culture The book presents a short and guided overview of the concept of culture It offers some background on the origin and development of the term culture It also outlines some of its key traits and ingredients and summarizes three main perspectives of culture across disciplines The book argues that culture matters considerably in HCI and discusses a number of reasons for and against its relevance Arguments against include a lack of a universal or common definition of the term culture and globalization Arguments in favor touch upon important aspects of HCI including a diversely growing user base the need to provide designers with enough support to design across cultures and the inseparable

relationship between culture and technology The issues explored in this book can be classified into three non mutually exclusive categories theoretical practical and controversial The book outlines the main conceptual perspectives of culture within HCI including Geert Hofstede s cultural dimensions theory Edward T Hall s cross cultural theory of communication and Richard Nisbett s cultural cognitive systems of thought as well as examining the ways in which culture has been operationalized in HCI research and the main functions of culture in this area It closes with a discussion of some open issues intended to spark debate and future research The literature this book draws upon covers a wide range of research disciplines including Anthropology Sociology Cultural Studies Robotics Disability Studies Cultural and Cross Cultural Psychology Usability and Design This book aspires to provide a useful overview of culture for HCI scholars at all levels **Rhythm,**

**Play and Interaction Design** Brigid M. Costello, 2018-04-03 There are rhythms of action and response to all human computer interactions As we click swipe tap and sway to their beats these rhythms intersect with the rhythms of our everyday lives Perhaps they synchronize perhaps they disrupt each other or maybe they dance together Whatever their impact our experience of these rhythms will colour our experience of an interaction design In playful interactive applications rhythm is especially crucial because of the role it performs in building and maintaining the precarious spirit of play Play involves movement and this movement has a rhythm that drives the experience But what is the character of these rhythms of play and how can they be used in the design of interactive applications These questions are the focus of this book Drawing on traditions of rhythmic design practice in dance performance music and architecture this book reveals key insights into practical strategies for designing playful rhythmic experience With playful experiences now being incorporated into almost every type of computer application interaction design practitioners and researchers need to develop a deeper understanding of the specific character of rhythms within play Written from a designer s perspective with interviews from leading creative artists and interaction design practitioners Rhythm Play and Interaction Design will help practitioners researchers and students understand evaluate and create rhythmic experiences **Tele-Improvisation: Intercultural Interaction in the**

**Online Global Music Jam Session** Roger Mills, 2019-01-04 This research monograph explores the rapidly expanding field of networked music making and the ways in which musicians of different cultures improvise together online It draws on extensive research to uncover the creative and cognitive approaches that geographically dispersed musicians develop to interact in displaced tele improvisatory collaboration It presents a multimodal analysis of three tele improvisatory performances that examine how cross cultural musician s express and perceive intentionality in these interactions as well as their experiences of distributed agency and tele presence Tele Improvisation Intercultural Interaction in the Online Global Music Jam Session will provide essential reading for musician s postgraduate students researchers and educators working in the areas of telematic performance musicology music cognition intercultural communication distance collaboration and learning digital humanities Computer Supported Cooperative Work and HCI The Routledge Companion to Music,

Technology, and Education Andrew King, Evangelos Himonides, S. Alex Ruthmann, 2017-01-20 The Routledge Companion to Music Technology and Education is a comprehensive resource that draws together burgeoning research on the use of technology in music education around the world Rather than following a procedural how to approach this companion considers technology musicianship and pedagogy from a philosophical theoretical and empirically driven perspective offering an essential overview of current scholarship while providing support for future research The 37 chapters in this volume consider the major aspects of the use of technology in music education Part I Contexts Examines the historical and philosophical contexts of technology in music This section addresses themes such as special education cognition experimentation audience engagement gender and information and communication technologies Part II Real Worlds Discusses real world scenarios that relate to music technology and education Topics such as computers composition performance and the curriculum are covered here Part III Virtual Worlds Explores the virtual world of learning through our understanding of media video games and online collaboration Part IV Developing and Supporting Musicianship Highlights the framework for providing support and development for teachers using technology to understand and develop musical understanding The Routledge Companion to Music Technology and Education will appeal to undergraduate and post graduate students music educators teacher training specialists and music education researchers It serves as an ideal introduction to the issues surrounding technology in music education

**Human-Centred Computer Audition: Sound, Music, and Healthcare** Kun Qian, Gyorgy Fazekas, Björn Wolfgang Schuller, Shengchen Li, Zijin Li, 2023-12-29 **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

Personalized Human-Computer Interaction Mirjam Augstein, Eelco Herder, Wolfgang Wörndl, 2023-08-07 Personalized and adaptive systems employ user models to adapt content services interaction or navigation to individual users needs User models can be inferred from implicitly observed information such as the user s interaction history or current location or from

explicitly entered information such as user profile data or ratings Applications of personalization include item recommendation location based services learning assistance and the tailored selection of interaction modalities With the transition from desktop computers to mobile devices and ubiquitous environments the need for adapting to changing contexts is even more important However this also poses new challenges concerning privacy issues user control transparency and explainability In addition user experience and other human factors are becoming increasingly important This book describes foundations of user modeling discusses user interaction as a basis for adaptivity and showcases several personalization approaches in a variety of domains including music recommendation tourism and accessible user interfaces

*Mathematics of Musical Rhythm* Jason Yust, Christopher White, Leigh VanHandel, 2024-09-06 This book presents original research applying mathematics to musical rhythm with a focus on computational methods theoretical approaches analysis of rhythm in folk and global music traditions syncopation and maximal evenness It honours the legacy of computer scientist and music theorist Godfried Toussaint In addition to addressing a topic pioneered by Toussaint application of mathematics to representation of musical rhythms the volume also builds upon his interest in analysis of music traditions outside the European classical canon and the use of computational methods Empirical contributions include a study of timing in Scandinavian polska performance showing that timing interacts with rhythmic features and a study of vocal melody rhythm in pre and post millennial popular music showing significant differences in tempo rhythmic density and repetition in the two corpora Theoretical contributions include a survey of timeline rhythms of African and African diasporic musics showing the prevalence of rhythms of a special type related to maximal evenness an application of matrix algebra to rhythm and syncopation with analysis of clave rhythms a ragtime corpus and Balinese gong cycles and a mathematical development of a new classification of smooth rhythms using a shadow rhythm algorithm suggested by Toussaint The volume also includes an original composition by Tom Johnson and a personal recollection of Toussaint by Francisco Gomez Martin This volume will be a key resource for academics researchers and advanced students of music musicology music analyses mathematical music theory computational musicology and music informatics It was originally published as a special issue of the Journal of Mathematics and Music

**The Routledge Handbook of Sound Design** Michael Filimowicz, 2024-10-22 The Routledge Handbook of Sound Design offers a comprehensive overview of the diverse contexts of creativity and research that characterize contemporary sound design practice Readers will find expansive coverage of sound design in relation to games VR globalization performance soundscape and feminism amongst other fields Half a century since its formal emergence this book considers sound design in a plethora of practical contexts including music film soundscape and sonification as well as the emerging theoretical and analytical approaches being used in scholarship on the subject The Routledge Handbook of Sound Design tracks how ideas and techniques have migrated from one field to the next as professionals expand the industry applications for their skills and knowledge and technologies produce new form factors for entertainment and information

Collectively the chapters included in this volume illustrate the robustness and variety of contemporary sound design research and creativity making The Routledge Handbook of Sound Design essential reading for students teachers researchers and practitioners working on sound design in its many forms

**Cultural Computing** Ryohei Nakatsu, Naoko Tosa, Fazel Naghdy, Philippe Codognet, 2010-08-06 Welcome to the Second International IFIP Entertainment Computing Symposium on st Cultural Computing ECS 2010 which was part of the 21 IFIP World Computer Congress held in Brisbane Australia during September 21 23 2010 On behalf of the people who made this conference happen we wish to welcome you to this international event The IFIP World Computer Congress has offered an opportunity for researchers and practitioners to present their findings and research results in several prominent areas of computer science and engineering In the last World Computer Congress WCC 2008 held in Milan Italy in September 2008 IFIP launched a new initiative focused on all the relevant issues concerning computing and entertainment As a result the two day technical program of the First Entertainment Computing Symposium ECS 2008 provided a forum to address explore and exchange information on the state of the art of computer based entertainment and allied technologies their design and use and their impact on society Based on the success of ECS 2008 at this Second IFIP Entertainment Computing Symposium ECS 2010 our challenge was to focus on a new area in entertainment computing cultural computing

New Directions in Third Wave Human-Computer Interaction: Volume 1 - Technologies Michael Filimowicz, Veronika Tzankova, 2018-07-02 As the first extensive exploration of contemporary third wave HCI this handbook covers key developments at the leading edge of human computer interactions Now in its second decade as a major current of HCI research the third wave integrates insights from the humanities and social sciences to emphasize human dimensions beyond workplace efficiency or cognitive capacities The earliest HCI work was strongly based on the concept of human machine coupling which expanded to workplace collaboration as computers came into mainstream professional use Today HCI can connect to almost any human experience because there are new applications for every aspect of daily life Volume 1 Technologies covers technical application areas related to artificial intelligence metacreation machine learning perceptual computing 3D printing critical making physical computing the internet of things accessibility sonification natural language processing multimodal display and virtual reality

Interaction Techniques and Technologies in Human-Computer Interaction Constantine Stephanidis, Gavriel Salvendy, 2024-08-30 This book offers a thorough exploration of interaction design by examining various technologies interaction techniques styles and devices This book Assists readers in acquiring a deep understanding of diverse ways humans interact with computer technologies and in selecting the most suitable approach for various interactive scenarios Introduces cutting edge interaction techniques including multimodal and gesture based interaction wearables haptic speech and sound based interaction embodied interaction and more Advances beyond traditional interfaces to large and multiscreen interactions proxemics brain computer interfaces affective computing and Extended Reality This book will appeal to individuals interested in Human Computer Interaction research and

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