

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

Roger Mills



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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

Music and AI Alexandra Bonnici,Roger B. Dannenberg,Steven Kemper,Kenneth P. Camilleri,2021-03-16 **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

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

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 **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 **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 **Social Cognition and the Second Person in Human Interaction** Diana I. Pérez,Antoni

Gomila,2021-09-28 This book is a unique exploration of the idea of the second person in human interaction the idea that face to face interactions involve a distinctive form of reciprocal mental state attributions that mediates their dynamical unfolding Challenging the view of mental attribution as a sort of theory of mind P rez and Gomila argue that the second person perspective of mental understanding is the conceptually ontogenetically and phylogenetically basic way of understanding mentality Second person interaction provides the opportunity for the acquisition of concepts of mental states of increasing complexity The book reviews the growing interest in a variety of second person phenomena both in development and in adulthood presenting research that shows how participants in human interaction attribute psychological states of a referentially transparent kind to each other This review documents the spontaneous preference for face to face interaction from eye contact to joint attention from forms of vitality to communicative intentions from interaction detection to joint action and from synchrony to interpersonal coordination Also looking at the implications and applications of the second person perspective within fields as diverse as art and morality this book is fascinating reading for students and academics in social and cognitive psychology cognitive science neuroscience and philosophy

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