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Computer Music Modeling and Retrieval

Genesis of Meaning in Sound and Music

5th International Symposium, CMMR 2008
Copenhagen, Denmark, May 19-23, 2008
Revised Papers

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Library of Congress Control Number: 2009929553

CR Subject Classification (1998): J.5, H.5, C.3, H.5.5, G.3, I.5

LNCS Sublibrary: SL 3 – Information Systems and Application, incl. Internet/Web and HCI

ISSN 0302-9743

ISBN-10 3-642-02517-X Springer Berlin Heidelberg New York

ISBN-13 978-3-642-02517-4 Springer Berlin Heidelberg New York

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Printed in Germany

Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India

Printed on acid-free paper SPIN: 12696697 06/3180 5 4 3 2 1 0

Preface

CMMR is an annual event focusing on important aspects of computer music. CMMR 2008 was the fifth event in this series and was co-organized by Aalborg University Esbjerg, Denmark (<http://www.aau.dk>), the Laboratoire de Mécanique et d'Acoustique, CNRS in Marseille, France (<http://www.lma.cnrs-mrs.fr>) and the Network for Cross-Disciplinary Studies of Music and Meaning, University of Southern Denmark (<http://www.ntsmb.dk/>). The conference was held in Copenhagen, May 19–23, 2008.

The four previous editions of CMMR gathered a large number of noteworthy papers by researchers from the field of computer music. The proceedings of these conferences were published in the *Lecture Notes in Computer Science* series (LNCS 2771, LNCS 3310, LNCS 3902 and LNCS 4969). The present edition follows the lineage of the previous ones, including a collection of 21 papers specially reviewed and corrected for this proceedings volume.

The field of computer music embraces a large number of research areas that span from information retrieval, programming, artificial intelligence to acoustics, signal processing and sound modeling. In the last CMMR gatherings an increased emphasis was placed on the role of human interaction at all levels of musical practice, as well as perceptual and cognitive aspects in order to establish relations between the structure of sounds and their impact on human beings. The identification of perceptually relevant sound structures is linked to the notion of the sense of sounds, which was the title of the CMMR 2007 conference.

CMMR 2008 further expanded the “Sense of Sounds” concept by taking into account the musical structure as a whole by proposing the theme “Genesis of Meaning in Sound and Music”. The purpose was to establish rigorous research alliances between computer and engineering sciences (information retrieval, programming, acoustics, signal processing) and areas within the humanities (in particular perception, cognition, musicology, philosophy), and to globally address the notion of sound meaning and its implications in music, modeling and retrieval. As a step in this direction, NTSMB, the Network for Cross-Disciplinary Studies of Music and Meaning as well as *JMM: The Journal of Music and Meaning* participated in CMMR 2008. The conference was partly supported by the French National Agency (ANR) within the project *senSons* (<http://www.sensons.cnrs-mrs.fr>).

The current book is divided into two main chapters, one that concerns retrieval of meaning and another that concerns generation of meaning. The first part of the retrieval chapter deals with perceptual and cognitive aspects spanning from EEG analysis to social interaction analysis through movement capture, while the second part addresses more traditional music information retrieval issues linked to synchronization, labeling, music query and classification. The

generation chapter presents music performance strategies and experiences as well as tools for score analyses and representation.

We would like to thank the Program Committee members for their valuable paper reports and thank all the participants who made CMMR 2008 Genesis of Meaning in Sounds and Music a stimulating and unique event. Finally, we would like to thank Springer for accepting to publish the CMMR 2008 proceedings in their LNCS series.

March 2009

Sølvi Ystad
Richard Kronland-Martinet
Kristoffer Jensen

Organization

CMMR 2009 “Genesis of Meaning in Sound and Music” was jointly organized by Aalborg University Denmark, Laboratoire de Mécanique et d’Acoustique - CNRS, Marseille, France and the Network for Cross-Disciplinary Studies of Music and Meaning, Denmark, University of Southern Denmark.

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Re-New - Digital Arts Forum, Denmark

Table of Contents

1 Retrieving the Meaning

1.1 Perceptual and Cognitive Aspects

Timbre Perception of Sounds from Impacted Materials: Behavioral, Electrophysiological and Acoustic Approaches	1
<i>Mitsuko Aramaki, Mireille Besson, Richard Kronland-Martinet, and Sølvi Ystad</i>	
Perception of Harmonic and Inharmonic Sounds: Results from Ear Models	18
<i>Albrecht Schneider and Klaus Frieler</i>	
Semantic Contours in Tracks Based on Emotional Tags	45
<i>Michael Kai Petersen, Lars Kai Hansen, and Andrius Butkus</i>	
Chunking Sound for Musical Analysis	67
<i>Rolf Inge Godøy</i>	
Towards a Model of Musical Chunks	81
<i>Kristoffer Jensen and Ole Kühl</i>	
Does Social Interaction Activate Music Listeners?	93
<i>Leen De Bruyn, Marc Leman, Dirk Moelants, and Michiel Demey</i>	
Musically Meaningful or Just Noise? An Analysis of On-line Artist Networks	107
<i>Kurt Jacobson and Mark Sandler</i>	

1.2 Signal Structure Behavior

The Pursuit of Happiness in Music: Retrieving Valence with Contextual Music Descriptors	119
<i>José Fornari and Tuomas Eerola</i>	
Perception of Impacted Materials: Sound Retrieval and Synthesis Control Perspectives	134
<i>Mitsuko Aramaki, Loïc Brancheriau, Richard Kronland-Martinet, and Sølvi Ystad</i>	
Refinement Strategies for Music Synchronization	147
<i>Sebastian Ewert and Meinard Müller</i>	

Labelling the Structural Parts of a Music Piece with Markov Models . . .	166
<i>Jouni Paulus and Anssi Klapuri</i>	
Tree Representation in Combined Polyphonic Music Comparison	177
<i>David Rizo, Kjell Lemström, and José M. Iñesta</i>	
Interval Distinction on Melody Perception for Music Information Retrieval	196
<i>Cihan Isikhan, Adil Alpkocak, and Yetkin Ozer</i>	
A Learning-Based Model for Musical Data Representation Using Histograms	207
<i>Mehdi Naccache, Amel Borgi, and Khaled Ghédira</i>	
 2 Generating the Meaning: Tools and Performance	
Ontological Substance and Meaning in Live Electroacoustic Music	216
<i>Jeffrey M. Morris</i>	
Dynamic Mapping Strategies for Expressive Synthesis Performance and Improvisation	227
<i>Palle Dahlstedt</i>	
Amplified Breath – (Dis)Embodied Habitat: Exploring Sonic Interfaces of Performance, Electronics, Space and Flautist Identity	243
<i>Jean Penny</i>	
KSQuant - Complex Score Manipulation in PWGL through Quantization	253
<i>Kilian Sprotte, Mikael Laurson, and Mika Kuuskankare</i>	
Strategies and Methods for Creating Symbolic Electroacoustic Scores in ENP	262
<i>Mika Kuuskankare and Mikael Laurson</i>	
An IEEE 1599-Based Interface for Score Analysis	272
<i>Adriano Baratè, Luca A. Ludovico, and Alberto Pinto</i>	
New Music in the Atomic Age	283
<i>Else Marie Pade</i>	
Author Index	285