Preface

The 10th International Symposium on Computer Music Multidisciplinary Research CMMR 2013 "Sound, Music and Motion" (http://www.cmmr2013.cnrs-mrs.fr/) took place in Marseille, the European Capital of Culture 2013, during October 15–18, 2013 and was organized by the Laboratoire de Mécanique et d'Acoustique (LMA). This 10th anniversary was the opportunity to federate strong forces from Marseille's region on both the scientific and artistic sides by associating on the one hand renowned French laboratories and universities: LMA, Institut des Sciences du Mouvement (ISM), Laboratoire de Neurosciences Cognitives (LNC), Laboratoire d'Analyse, Topologie, Probabilities (LATP), Sciences, Arts et Techniques de l'Image et du Son (SATIS), and on the other hand renowned music and dance associations: Ubris Studio, n+n corsino, which took care of the artistic program of the conference.

This 10th CMMR event gathered around 170 delegates from 21 countries during 4 days including 11 oral sessions, 2 poster and demo sessions that covered traditional topics of previous CMMR events and specific topics related to the theme of the conference. In addition, 5 installations were exposed around the campus during the whole conference. Five renowned keynote speakers were invited to present their respective works: Jean-Claude Risset from the LMA (France), Marcelo M. Wanderley from the Centre for Interdisciplinary Research in Music Media and Technology (Canada), Cathy Craig from the Movement Innovation Lab (Northern Ireland), Norbert Corsino (artist choreographer, France), and Daniel Deshays (sound director and engineer, France). Their presentations are available at: http://www.cmmr2013.cnrs-mrs.fr/ Keynotes.html. Concerts related to the music festival associated to the conference took place each evening after the scientific sessions in partnership with the Bernardines theater which hosted two concerts. A satellite workshop on the theme "Music, Movement and Brain" was also organized by Cynthia M. Grund and her "Nordic Network for the Integration of Music Informatics, Performance and Aesthetics" the day before the conference, featuring paper presentations, a panel, and tutorials.

This symposium was initiated in 2003 and has been organized in several countries (Europe and India in 2011). The CMMR acronym originally symbolized Computer Music Modeling and Retrieval and the first CMMR gatherings mainly focused on information retrieval, programming, digital libraries, hypermedia, artificial intelligence, acoustics, and signal processing. Little by little CMMR has moved toward more interdisciplinary aspects related to the role of human interaction in musical practice, perceptual and cognitive aspects linked to sound modeling, and how sense or meaning can be transmitted either from isolated sounds or musical structure as a whole. During CMMR 2012, the Steering Committee therefore decided to slightly change the significance of the acronym from Computer Music Modeling and Retrieval to Computer Music Multidisciplinary Research. This means that new research communities now are welcome to the conference in addition to the traditional ones.

The CMMR 2013 post-proceedings edition is the 10th book published by Springer Verlag in the Lecture Notes in Computer Sciences Series (LNCS 2771, LNCS 3310, LNCS 3902, LNCS 4969, LNCS 5493, LNCS 5954, LNCS 6684, LNCS 7172, LNCS 7900). The book is divided into 10 chapters containing the peer-reviewed and revised versions of 38 selected conference papers and 2 keynote papers for this post-proceedings edition. The chapters reflect the interdisciplinary nature of this conference, which welcome any sound-related topic. This year particular emphasis was placed on the conference theme "Sound, Music and Motion", including topics on musical gestures and new interfaces (Chapter 1) as well as multimodal relations between sounds and gestures (Chapter 4) and between sounds and images (Chapter 8). More sound-specific topics were presented from varied standpoints including analysis and mathematical representations of sounds (Chapter 7), sound synthesis (Chapter 6), sonification (Chapter 3), and auditory perception and cognition (Chapter 9). Finally, music information retrieval (MIR) contributions that have always been an important part of the CMMR conference are presented in three different chapters dealing with classification (Chapter 2), data mining (Chapter 5), and recognition (Chapter 10).

We would like to thank all the participants of CMMR 2013 who strongly contributed to make this 10th anniversary an unforgettable event. We would also like to thank the Program Committee members for their indispensable paper reports and the Music Committee for the difficult task of selecting the artistic contributions. We are truly grateful to the Local Organizing Committee at the LMA that handled all the practical issues and ensured effcient and harmonious coordination between the different actors of the conference. Finally, we would like to thank Springer for accepting to publish the CMMR 2013 post-proceedings in their LNCS series.

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