

## Preface

This volume presents the proceedings of the 5th International Conference on Movement and Computing (MOCO'18). MOCO is nowadays the main interdisciplinary conference exploring how computer science and technology can support a deeper understanding of human movement practice for movement expression and communication. This is achieved by designing and developing new paradigms for interacting with computers through movement (e.g., movement interfaces), and by tackling computational challenges about the modeling, representation, segmentation, recognition, and generation of movement. The interdisciplinary nature of the targeted topics covers many research and application areas, including for example neuroscience, psychology, philosophy, embodied cognition, biomechanics, human-machine interaction, bodily experience, and the performing arts.

MOCO was started in 2014 as a workshop in Paris (France). This was followed by 4 editions hosted in Vancouver (Canada), Thessaloniki (Greece) and London (UK), respectively. MOCO'18 was held in Genoa (Italy), at the Casa Paganini – InfoMus International Research Centre of DIBRIS – University of Genoa, on June 28-30, 2018.

MOCO makes a strong focus on the synergies between arts, and computer and human sciences. Advances in both domains require the development of computational capabilities that allow computer systems to support unstructured and dynamic artistic activities that characterize humans. We particularly welcomed contributions addressing cross-fertilization of state-of-the-art insights and methods from these domains. The interdisciplinary character of MOCO'18 is particularly underlined by the two internationally renowned keynote speakers: prof. Daniel Gatica-Perez (Idiap Research Institute and Ecole Polytechnique Federale de Lausanne, Switzerland) and prof. Beatrice de Gelder (Maastricht University, The Netherlands).

MOCO'18 received 103 submissions. Besides papers for oral and poster presentation, the conference hosted special tracks on practice works, such as demos, performances, games, artistic works, movement workshops, and a Doctoral Consortium. Out of the 50 long and short paper submissions, 29 were accepted for the long and short papers track. Furthermore, 18 poster papers and practice works were on display. Finally, 9 papers were accepted for the Doctoral Consortium. The review process was set up differently, according to the type of submission.

This year's MOCO also included four workshops that took place on the first day of the main conference, one panel, and a special event for the 20th anniversary of the EyesWeb XMI platform. The special event consisted of a panel including the participation of the MOCO chairs and of internationally renowned artists and composers such as Nicola Bernardini and Alvise Vidolin, and of a performance offered by Casa Paganini – InfoMus and using the EyesWeb XMI platform.

We would like to express our thanks to the Practice Works Chair Stefano Piana, the Doctoral Consortium Chair Radoslaw Niewiadomski, and all the members of the conference's Organizing Committee, listed herein, as well as to the local institutions that supported the conference (Goethe-Institut Genua and Music Conservatory Niccolò Paganini). We would also like to thank the Program Committee for helping shape this excellent conference program and for their time, effort, and constructive feedback to the authors. Additionally, we want to thank our keynote speakers for sharing their outstanding work and insights with the community.

June 2018

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