

**The First International Workshop on  
Motor Learning for Music Performance (MOTION2017)  
in the framework of the  
17<sup>th</sup> Intl. Conference on New Interfaces for Musical Expression  
Copenhagen, Denmark, May 15, 2017**

**Workshop Organizers and Chairs**

*Gualtiero Volpe*

Casa Paganini - InfoMus  
DIBRIS – University of Genoa  
Genoa, Italy

*Rafael Ramirez*

Music Technology Group  
Universitat Pompeu Fabra  
Barcelona, Spain

*Pablo Fernandez*

Music Technology Group  
Universitat Pompeu Fabra  
Barcelona, Spain

*Giorgio Gnecco*

Casa Paganini - InfoMus  
DIBRIS – University of Genoa  
Genoa, Italy

*Ksenia Kolykhalova*

Casa Paganini - InfoMus  
DIBRIS – University of Genoa  
Genoa, Italy

*Radoslaw Niewiadomski*

Casa Paganini - InfoMus  
DIBRIS – University of Genoa  
Genoa, Italy

*Alfonso Perez*

Music Technology Group  
Universitat Pompeu Fabra  
Barcelona, Spain

*Zacharias Vamvakousis*

Music Technology Group  
Universitat Pompeu Fabra  
Barcelona, Spain

*George Waddell*

Centre for Performance Science  
Royal College of Music  
London, UK

*Aaron Willamon*

Centre for Performance Science  
Royal College of Music  
London, UK

*The First International Workshop on Motor Learning for Music Performance*

(MOTION2017) investigates the links between music performance training and motor performance features, in order to design systems and interfaces supporting learning of both traditional and novel music instruments. The quality of the motor performance is of great importance in music training, especially in learning how to play a music instrument. This indeed requires accurate movements of the limbs and of the body, fine-grained control of posture, and a high biomechanical efficiency. Moreover, a wrong training approach may cause mechanical problems developing into injuries and levels of excess tension that restrict freedom of movement. Finally, it is well-known that movement and gesture play a major role as conveyors of expressive content in music performance. Such issues are even more crucial for the new generation of digital interfaces for music expression, where the lack of a consolidated tradition in the pedagogical methodologies as those existing for traditional music instruments, can be remedied by developing effective automatic analysis and feedback systems supporting students and practitioners in their training activities.

The workshop represents a unique occasion for researchers and practitioners to meet and discuss motor performance in music instrument training under different perspectives, including e.g., musical, pedagogical, psychological, biomechanical, and computational aspects, with a multidisciplinary approach. The goal is to discuss current research, to identify research challenges, to show results, and to foster collaborations.

The workshop is partially supported by the EU-H2020-ICT Project TELMI (<http://telmi.upf.edu>). The goal of TELMI is to design and implement novel multimodal interaction paradigms and technologies for learning to play a music instrument, having the violin as a case study.

A special issue of a journal based on selected contributions from the workshop is planned.

**Workshop topics**

We encourage submissions including, but not limited to, the following topics:

- pedagogical frameworks and approaches
- studies of motor / physical skills necessary to play particular instruments
- experimental methodologies
- datasets of motion recordings during music playing
- techniques for extraction of multimodal features from a music performance
- biomechanical models
- computational models of the technical quality of a motor performance
- techniques and computational models for assessment of risks of injuries
- techniques for generating feedback to support music instrument learning
- case-studies
- systems and applications

**Electronic Submission**

We invite the submission of one-page abstracts, following the NIME 2017 template (please see <http://www.nime2017.org/submit/>). Contributions should be sent to [motion2017@infomus.org](mailto:motion2017@infomus.org) and will be reviewed by the workshop chairs.

**Website of the workshop:** <http://www.infomus.org/MOTION2017/>

**Important dates**

Submission deadline: April 27, 2017

Notification to authors: May 1, 2017

Workshop: May 15, 2017



*The workshop is partially supported by the EU-H2020-ICT Project TELMI (<http://telmi.upf.edu/>). This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 688269.*