



**MOCO '18**  
5TH INTERNATIONAL  
CONFERENCE ON  
MOVEMENT COMPUTING





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MOVEMENT COMPUTING

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Casa Paganini – InfoMus  
DIBRIS – University of Genoa  
Genoa, Italy  
June 28 – 30, 2018

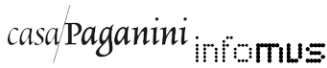
## **Conference Program**

<http://moco18.movementcomputing.org>

<http://www.casapaganini.org>

<http://www.infomus.org>

## Local organizing institution



UNIVERSITÀ  
DEGLI STUDI  
DI GENOVA

## Co-organizing institutions



## In collaboration with



## With the support of



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 688865



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 688269



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 732391

## In cooperation with



# Committees

## Conference Chairs

Gualtiero Volpe  
Antonio Camurri

## Program Chair

Maurizio Mancini

## Doctoral Consortium Chair

Radoslaw Niewiadomski

## Practice Works Chair

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MOCO'18 is hosted by the Casa Paganini – InfoMus research center, which has its premises in the monumental building of S. Maria delle Grazie La Nuova. This is a fascinating space dating back to the 14th century, covered by a vault completely decorated with frescos of the 16th century by Bernardo Castello and Giovanni Carlone. Pictures in this booklet show views and details of the monumental building.

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# Conference venues

(see map in the next page)

<b>Paper sessions</b>	Casa Paganini [1] Piazza S. Maria in Passione 34
<b>Poster sessions</b>	S. Maria di Castello [2] Via S. Maria di Castello 27
<b>Demo sessions</b>	Casa Paganini [1] Piazza S. Maria in Passione 34  S. Maria di Castello [2] Via S. Maria di Castello 27
<b>Doctoral consortium</b>	S. Maria di Castello [2] Via S. Maria di Castello 27
<b>Performances</b>	Casa Paganini [1] Piazza S. Maria in Passione 34
<b>Installations</b>	Casa Paganini [1] Piazza S. Maria in Passione 34
<b>Workshops</b>	Casa Paganini [1] Piazza S. Maria in Passione 34
<b>Gala dinner</b>	Palazzo Ducale [3] Piazza Matteotti 9







# Overall program

**JUNE 28, 2018**

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- 9:00 – 10:30      Workshop:  
MOCO Annotation Workshop, Session 1  
*Casa Paganini, Church*
- 9:00 – 10:30      Workshop:  
Public Dialog and Creative Facilitation  
for Humane Technology, Session 1  
*Casa Paganini, Chapel*
- 9:10 – 10:25      Doctoral Consortium: Session 1  
*S. Maria di Castello, Cloister*
- 10:30 – 11:00      Coffee break  
*S. Maria di Castello, Cloister*
- 10:30 – 11:00      Doctoral Consortium: Poster session  
*S. Maria di Castello, Cloister*
- 11:00 – 12:15      Doctoral Consortium: Session 2  
*S. Maria di Castello, Cloister*
- 11:00 – 12:30      Workshop:  
MOCO Annotation Workshop, Session 2  
*Casa Paganini, Church*
- 11:00 – 12:30      Workshop:  
Public Dialog and Creative Facilitation  
for Humane Technology, Session 2  
*Casa Paganini, Chapel*
- 12:30 – 13:30      Lunch break  
*S. Maria di Castello, Cloister*

- 12:30 – 13:30 Doctoral Consortium: Poster session  
*S. Maria di Castello, Cloister*
- 13:30 – 15:30 Workshop:  
Embodied Simulations of Physical Phenomena  
*Casa Paganini, Church*
- 13:30 – 15:30 Workshop:  
WhoLoDancE Performative Workshop  
*Casa Paganini, Foyer*
- 13:30 – 15:30 Workshop:  
Experiencing Avatar Direction in Low Cost  
Theatrical Mixed Reality Setup  
*Casa Paganini, Chapel*
- 13:40 – 15:30 Doctoral Consortium: Session 3  
*S. Maria di Castello, Cloister*
- 15:30 – 16:00 Coffee break  
*S. Maria di Castello, Cloister*
- 15:30 – 16:00 Doctoral Consortium: Poster session  
*S. Maria di Castello, Cloister*
- 16:00 – 16:15 Welcome address  
*Casa Paganini, Church*
- 16:15 – 17:15 Keynote lecture:  
Daniel Gatica-Perez, Crowdsourcing the  
Campus, the City, and Beyond  
*Casa Paganini, Church*
- 17:15 – 18:30 Paper session: Movement and interaction  
*Casa Paganini, Church*
- 18:30 – 20:00 Welcome reception  
*S. Maria di Castello, Cloister*
- 20:00 – 20:30 Performance: Time to Compile  
*Casa Paganini, Church*

## JUNE 29, 2018

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- 9:00 – 10:15 Paper session:  
Conceptual frameworks and methodologies  
*Casa Paganini, Church*
- 10:00 – 16:00 Installation: The Bronze Key: Performing and  
Materializing a Cipher System  
*Casa Paganini, Foyer*
- 10:00 – 16:00 Demo: An interactive gamified experience for  
understanding directionality and familiarize with  
Laban symbols  
*Casa Paganini, Foyer*
- 10:00 – 16:00 Demos:  
Magic lining: an exploration of smart textiles  
altering people's self-perception  
The Energy Lift: automated measurement of  
postural tension and energy transmission  
*Casa Paganini, Chapel*
- 10:15 – 11:15 Panel: What escapes computation  
in interactive performance?  
*Casa Paganini, Church*
- 11:15 – 11:45 Coffee break  
*S. Maria di Castello, Cloister*
- 11:15 – 11:45 Poster session  
*S. Maria di Castello, Cloister*
- 11:15 – 11:45 Demo: The TELMI Project: Enhancing Music  
Learning with Smart Technologies  
*S. Maria di Castello, Cloister*
- 11:45 – 12:05 Performance: SloMo study #2  
*Casa Paganini, Church*

- 12:05 – 13:00 Paper session: Movement analysis 1  
*Casa Paganini, Church*
- 13:00 – 14:00 Lunch break  
*S. Maria di Castello, Cloister*
- 13:00 – 14:00 Poster session  
*S. Maria di Castello, Cloister*
- 13:00 – 14:00 Demo: The TELMI Project: Enhancing Music Learning with Smart Technologies  
*S. Maria di Castello, Cloister*
- 14:00 – 15:30 Paper session: Virtual and robotic characters  
*Casa Paganini, Church*
- 15:30 – 16:00 Coffee break  
*S. Maria di Castello, Cloister*
- 15:30 – 16:00 Poster session  
*S. Maria di Castello, Cloister*
- 15:30 – 16:00 Demo: The TELMI Project: Enhancing Music Learning with Smart Technologies  
*S. Maria di Castello, Cloister*
- 16:00 – 17:00 Special event and performance:  
20 Years of EyesWeb  
*Casa Paganini, Church*
- 17:00 – 18:20 Paper session: Case studies and applications  
*Casa Paganini, Church*
- 18:20 – 19:00 Demo: Sounding Feet - Sonifying Foot Pressure for Dance  
*Casa Paganini, Foyer*
- 20:00 – 22:00 Gala dinner  
*Palazzo Ducale*

## JUNE 30, 2018

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- 9:00 – 10:30 Paper session:  
Annotation, transcription, and visualization  
*Casa Paganini, Church*
- 10:30 – 16:30 Installation: Interaction Design Installation  
*Casa Paganini, Foyer*
- 10:30 – 16:30 Installation: Time to Compile  
*Casa Paganini, Chapel*
- 10:30 – 11:00 Coffee break  
*S. Maria di Castello, Cloister*
- 10:30 – 11:00 Poster session  
*S. Maria di Castello, Cloister*
- 10:30 – 11:00 Demos:  
Interactive Tango Milonga: Demo and  
Performance  
Enhancing children understanding of  
mathematics with multisensory technology  
*S. Maria di Castello, Cloister*
- 11:00 – 11:40 Performance: Dual Divide  
*Casa Paganini, Church*
- 11:40 – 13:00 Paper session: Motion analysis 2  
*Casa Paganini, Church*
- 13:00 – 14:00 Lunch break  
*S. Maria di Castello, Cloister*
- 13:00 – 14:00 Poster session  
*S. Maria di Castello, Cloister*

- 13:00 – 14:00 Demos:  
Interactive Tango Milonga: Demo and Performance  
Enhancing children understanding of mathematics with multisensory technology  
*S. Maria di Castello, Cloister*
- 14:00 – 14:30 Performance: Mini Savior Opt.  
*Casa Paganini, Church*
- 14:30 – 16:00 Paper session:  
Movement perception and learning  
*Casa Paganini, Church*
- 16:00 – 16:30 Coffee break  
*S. Maria di Castello, Cloister*
- 16:00 – 16:30 Poster session  
*S. Maria di Castello, Cloister*
- 16:00 – 16:30 Demos:  
Interactive Tango Milonga: Demo and Performance  
Enhancing children understanding of mathematics with multisensory technology  
*S. Maria di Castello, Cloister*
- 16:30 – 17:30 Keynote lecture:  
Beatrice de Gelder, Why and how a model driven feature analysis of dance movements can help to understand  
*Casa Paganini, Church*
- 17:30 – 18:00 Closing address and presentation of MOCO'19  
*Casa Paganini, Church*



JUNE 28, 2018			
TIME	Casa Paganini Church	Casa Paganini Foyer	Casa Paganini Chapel
08:30 - 09:00	Registration		Santa Maria Di Castello Cloister
09:00 - 09:30	MOCO Annotation Workshop Session 1		Doctoral Consortium Session 1
09:30 - 10:00			Coffee break and DC poster session
10:00 - 10:30			Doctoral Consortium Session 2
10:30 - 11:00			Lunch break and DC poster session
11:00 - 11:30	MOCO Annotation Workshop Session 2		Doctoral Consortium Session 3
11:30 - 12:00			Coffee break and DC poster session
12:00 - 12:30			
12:30 - 13:00			
13:00 - 13:30			
13:30 - 14:00			
14:00 - 14:30	Embodied simulations of physical phenomena	WhoLoDance Performative Workshop	Public Dialog and Creative Facilitation for Humane Technology, Session 1
14:30 - 15:00			Public Dialog and Creative Facilitation for Humane Technology, Session 2
15:00 - 15:30			Experiencing avatar direction in low cost mixed reality setup
15:30 - 16:00			Doctoral Consortium Session 3
16:00 - 16:15	Welcome address		Coffee break and DC poster session
16:15 - 16:45	Keynote lecture: Daniel Gatica-Perez		
16:45 - 17:15	Paper session: Movement and interaction		
17:15 - 17:45			
17:45 - 18:30			
18:30 - 19:00			
19:00 - 19:30			
19:30 - 20:00			
20:00 - 20:30	Performance: Time to Compile		Welcome reception

Track: short and long papers

Track: doctoral consortium

Track: practice works

Social program

**JUNE 29, 2018**

TIME	Casa Paganini Church	Casa Paganini Foyer	Casa Paganini Chapel	Santa Maria Di Castello Cloister
08:00 - 08:30	Registration  Paper Session: Conceptual frameworks and methodologies  What escapes computation in interactive performance?  Performance: SiMo study #2  Paper Session: Movement analysis 1  Workshop: Forró Trainer  Paper session: Virtual and robotic characters	Installation: The Bronze Key: Performing and Materializing a Cipher System  Demo: An interactive gamified experience for understanding directionality and familiarize with Laban Symbols	Demos: 1. Magic lining: an exploration of smart textiles altering people's self-perception 2. The Energy Lift: automated measurement of postural tension	Coffee break and posters Demo: the TELMI project
08:30 - 09:00				
09:00 - 09:30				
09:30 - 10:00				
10:00 - 10:15				
10:15 - 10:45	Special event and performance: 20 Years of EyesWeb  Paper session: Case studies and applications	Demo: Sounding Feet	Coffee break and posters Demo: the TELMI project	
10:45 - 11:15				
11:15 - 11:45				
11:45 - 12:05				
12:05 - 12:30				
12:30 - 13:00	Gala Dinner @ Palazzo Ducale	Gala Dinner @ Palazzo Ducale	Gala Dinner @ Palazzo Ducale	
13:00 - 13:30				
13:30 - 14:00				
14:00 - 14:30				
14:30 - 15:00				
15:00 - 15:30	Gala Dinner @ Palazzo Ducale	Gala Dinner @ Palazzo Ducale	Gala Dinner @ Palazzo Ducale	
15:30 - 16:00				
16:00 - 16:30				
16:30 - 17:00				
17:00 - 17:30				
17:30 - 18:00	Gala Dinner @ Palazzo Ducale	Gala Dinner @ Palazzo Ducale	Gala Dinner @ Palazzo Ducale	
18:00 - 18:20				
18:20 - 19:00				
19:00 - 20:00				
20:00 - 22:00				

**JUNE 30, 2018**

		<i>Casa Paganini Church</i>	<i>Casa Paganini Foyer</i>	<i>Casa Paganini Chapel</i>	<i>Santa Maria Di Castello Cloister</i>
<b>TIME</b>					
08:30 - 09:00	Registration				
09:00 - 09:30	Paper Session: Annotation and visualization				
09:30 - 10:00					
10:00 - 10:30					
10:30 - 11:00					Coffee break and posters Demos: 1. Enhancing children understanding of mathematics; 2. Interactive Tango Milonga
11:00 - 11:40	Dual Divide				
11:40 - 12:00	Paper Session: Movement analysis 2				
12:00 - 12:30					
12:30 - 13:00					
13:00 - 13:30					Lunch break and posters Demos: 1. Enhancing children understanding of mathematics; 2. Interactive Tango Milonga
13:30 - 14:00					
14:00 - 14:30	Live Electronic Music Performance: Embodied and Enactive Approaches		Interaction Design Installation	Installation: Time to Compile	
14:30 - 15:00	Paper Session: Movement perception				
15:00 - 15:30					
15:30 - 16:00					
16:00 - 16:30					Coffee break and posters Demos: 1. Enhancing children understanding of mathematics; 2. Interactive Tango Milonga
16:30 - 17:00	Keynote lecture: Beatrice de Gelder				
17:00 - 17:30	Closing address				
17:30 - 18:00					



# Keynote lectures and special events

*Casa Paganini, Church  
Piazza Santa Maria in Passione 34*

**JUNE 28, 2018**

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**16:00 – 16:15 Welcome address**

**16:15 – 17:15 Keynote lecture**

*Daniel Gatica-Perez  
Idiap Research Institute  
and Ecole Polytechnique Fédérale  
de Lausanne, Switzerland*

## **Crowdsourcing the Campus, the City, and Beyond**

“The space of our life is neither continuous nor infinite, homogeneous, isotropic. But do we precisely know where it breaks, where it curves, where it disconnects, and where it reassembles?” From this question in Georges Perec's *Species of Spaces* classic essay, I will discuss my group's recent research on mobile crowdsourcing, which integrates youth participation, smartphone sensing, machine learning of mobile sensor and media, and inference of properties of human spaces and everyday life patterns. We aim to deepen our understanding of how mobile and social technology can support communities and other stakeholders engaged in their own spaces for the common good.

**JUNE 29, 2018**

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**10:15 – 11:15 Panel: What escapes computation in interactive performance?**

*Conveners:*

*Teoma Naccarato and John MacCallum*

**16:00 – 17:00 Special event**

*Nicola Bernardini*

*Conservatorio C. Pollini, Padua*

*Antonio Camurri*

*DIBRIS – University of Genoa*

*Alvise Vidolin*

*CSC – University of Padua*

*Gualtiero Volpe*

*DIBRIS – University of Genoa*

**20 years of EyesWeb**

Antonio Camurri and Gualtiero Volpe with the participation of Nicola Bernardini, Alvise Vidolin, and members of Casa Paganini – InfoMus will present the story of the EyesWeb platform, its origins, the ideas behind it, the journey that brought this multimodal platform to current time and beyond, with plans for the future and new projects. The special event will be enriched by the participation of artists and developers that used the platform during the past years in their applications, performances, and shows. The event will end with the performance *Europa: Gesture of History - Dancing Science and Art not to forget EU identity*, an excerpt from a scientific performance commissioned by EU DG Connect in occasion of the celebration of the Treaty of Rome in 2017. This is a project of Casa Paganini – InfoMus in collaboration with Virgilio Sieni dance company and with

composer Andrea Cera. In the performance presented at MOCO'18, dancer Federica Loredan coordinates some amateur dance performers from Atlante del Gesto\_Genova<sup>1</sup> (Angelica Marioni, Lidia Treccani, Daniele Ferrarazza, Ettore Chernetich, Rosanna Bethel, and Elena Battistini).



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<sup>1</sup> <https://www.facebook.com/atlatedelgestoGenova/>

**JUNE 30, 2018**

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**16:30 – 17:30 Keynote lecture**

*Beatrice de Gelder*  
*Maastricht University, The Netherlands*

**Why and how a model driven feature analysis of dance movements can help to understand**

Social species spend considerable time observing the body movements of others to understand their actions, predict their emotions, watch their games and last but not least, to enjoy their dance movements. Given the important information obtained from body movements we still know surprisingly little about the detailed brain mechanisms underlying movement perception in naturalistic videos. Previous studies have mainly focused on analysis of subjective experience and on diverse means of quantifying it. While such studies have revealed details about the role of subjective experience they have provided limited understanding about the perceptual basis of movement and dance perception. In this talk we turn to the few studies in the literature that have gone beyond the use of semantic categories to look into how the brain represents underlying movement features and builds up a representation of dance qualities. We will specifically explore how a computational model driven analysis throws new light on the brain basis of movement and dance perception.

**17:30 – 18:00 Closing address and presentation of MOCO'19**



# Paper sessions

*Casa Paganini, Church  
Piazza Santa Maria in Passione 34*

**JUNE 28, 2018**

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**17:15 – 18:30    Session 1: Movement and interaction  
Chair: Daniel Gatica-Perez**

*17:15 – 17:40    Roshni Kaushik, Ilya Vidrin, and Amy LaViers  
Quantifying Coordination in Human Dyads  
via a Measure of Verticality*

*17:40 – 18:05    Radoslaw Niewiadomski, Lea Chauvigne,  
Maurizio Mancini, and Antonio Camurri  
Towards a Model of Nonverbal Leadership  
in Unstructured Improvisation Task*

*18:05 – 18:30    Behzad Heravi, Jenny Gibson, Stephen Hailes,  
and David Skuse  
Playground Social Interaction Analysis using  
Bespoke Wearable Sensors for Tracking and  
Motion Capture*

**JUNE 29, 2018**

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**9:00 – 10:15    Session 2: Conceptual frameworks  
and methodologies  
Chair: Alvisé Vidolin**

*9:00 – 9:25        Jan C. Schacher  
What Quality? Performing Research on  
Movement and Computing*

*9:25 – 9:50        Katerina El Raheb, Sarah Whatley,  
and Antonio Camurri  
A Conceptual Framework for Creating and  
Analyzing Dance Learning Digital Content*

*9:50 – 10:15      Ian Jarvis and Doug Van Nort  
Posthuman Gesture*

**12:05 – 13:00 Session 3: Movement analysis 1**

**Chair: Frédéric Bevilacqua**

- 12:05 – 12:30 *Augusto Dias Pereira Dos Santos, Lie Ming Tang, Lian Loke, and Roberto Martinez-Maldonado*  
You Are Off The Beat! Is Accelerometer Data Enough for Measuring Dance Rhythm?
- 12:30 – 12:45 *Sam Amin and Jeff Burke*  
OpenMoves: A System for Interpreting Person-Tracking Data
- 12:45 – 13:00 *Luke Dahl and Federico Visi*  
Modosc: A Library of Real-Time Movement Descriptors for Marker-Based Motion Capture

**14:00 – 15:30 Session 4: Virtual and robotic characters**

**Chair: Jules Françoise**

- 14:00 – 14:25 *Marco Gillies*  
Creating Virtual Characters
- 14:25 – 14:50 *Soumia Dermouche and Catherine Pelachaud*  
Attitude Modeling for ECA Based on Temporal Sequence Mining: Extraction and Evaluation
- 14:50 – 15:15 *Ishaan Pakrasi, Amy LaViers, and Novoneel Chakraborty*  
A Design Methodology for Abstracting Character Archetypes onto Robotic Systems
- 15:15 – 15:30 *Lamtham Hantrakul, Zachary Kondak, and Gil Weinberg*  
Practice Makes Perfect: Towards Learned Path Planning for Robotic Musicians using Deep Reinforcement Learning

**17:00 – 18:20 Session 5: Case studies and applications**

**Chair: Nicola Bernardini**

- 17:00 – 17:25 *John Sullivan, Alexandra Tibbitts, Brice Gatinet, and Marcelo Wanderley*  
Gestural Control of Augmented Instrumental Performance: A Case Study of the Concert Harp

- 17:25 – 17:50 *Dom Brown, Chris Nash, and Tom Mitchell*  
Understanding User-Defined Mapping Design  
for Mid-Air Musical Performance
- 17:50 – 18:05 *Valerio Lorenzoni, Pieter-Jan Maes,  
Pieter Van den Berghe, Dirk De Clercq,  
Tijl de Bie, and Marc Leman*  
A bio-feedback music-sonification system for  
gait retraining
- 18:05 – 18:20 *Rosella P. Galindo Esparza,  
Patrick G. T. Healey, Lois Weaver,  
and Matthew Delbridge*  
Augmented Embodiment: Developing  
Interactive Technology for Stroke Survivors

## JUNE 30, 2018

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- 9:00 – 10:30    Session 6: Annotation, transcription,  
and visualization**  
**Chair: Sarah Fdili Alaoui**
- 9:00 – 9:25 *Katerina El Raheb, Aristotelis Kasomoulis,  
Akrivi Katifori, Marianna Rezkalla,  
and Yannis Ioannidis*  
A Web-based system for annotation of dance  
multimodal recordings by dance practitioners  
and experts
- 9:25 – 9:50 *Claudia Savina Bianchini, Léa Chèvrefils,  
Claire Danet, Patrick Doan,  
Morgane Rébulard, Adrien Contesse,  
and Dominique Boutet*  
Coding Movement in Sign Languages: the  
Typannot Approach
- 9:50 – 10:15 *Rafael Kuffner Dos Anjos, Claudia Ribeiro,  
and Carla Fernandes*  
Three-dimensional Visualization of Movement  
Qualities in Contemporary Dance
- 10:15 – 10:30 *Ewelina Bakala, Yaying Zhang,  
and Philippe Pasquier*  
MAVi: A Movement Aesthetic Visualization  
Tool for dance video making and prototyping

- 11:40 – 13:00    Session 7: Movement analysis 2**  
**Chair: Beatrice de Gelder**
- 11:40 – 11:55    *Olga Perepelkina and Galina Arina*  
 Kinematic predictors for the moving hand illusion
- 11:55 – 12:10    *Erica Volta, Maurizio Mancini, Giovanna Varni, Simone Ghisio, and Gualtiero Volpe*  
 Automatically measuring biomechanical skills of violin performance: an exploratory study
- 12:10 – 12:35    *Alexandra Bacula and Amy LaViers*  
 Character Recognition on a Humanoid Robotic Platform via a Laban Movement Analysis Observational Guide
- 12:35 – 13:00    *William Li, Omid Alemi, and Philippe Pasquier*  
 Ranking-Based Affect Estimation of Motion Capture Data in the Valence-Arousal Space
- 14:30 – 16:00    Session 8: Movement perception and learning**  
**Chair: Philippe Pasquier**
- 14:30 – 14:55    *Andrea Giomi and Federica Fratagnoli*  
 Listening touch. A case study about multimodal awareness in movement analysis with interactive sound feedbacks
- 14:55 – 15:20    *Isabella Poggi and Alessandro Ansani*  
 The lexicon of the Conductor's gaze
- 15:20 – 15:45    *Jean-Philippe Riviere, Sarah Fdili Alaoui, Baptiste Caramiaux, and Wendy Mackay*  
 How Do Dancers Learn To Dance? A first-person perspective of dance acquisition by expert contemporary dancers
- 15:45 – 16:00    *Jeehyun Joung and Jeounghoon Kim*  
 Interactive Effect of Tempo and Rhythm on the Emotional Perception of Dance Movements

## Poster sessions

*S. Maria di Castello, Cloister  
Via S. Maria di Castello 27*

**JUNE 29, 2018, 11:15 – 11:45, 13:00 – 14:00, and 15:30 – 16:00**

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*Sofia Dahl and George Sioros*  
Rhythmic recurrency in dance to music with ambiguous meter

*Catherine Massie-Laberge, Isabelle Cossette,  
and Marcelo M. Wanderley*  
Kinetic Analysis of Hip Motion During Piano Playing

*Michaela Honauer*  
Designing a Remote-Controlled Interactive Dance Costume

*Joseph Newbold, Nadia Bianchi-Berthouze, and Nicolas Gold*  
Visual cues effect on the impact of sonification on movement

*Frédéric Bevilacqua, Iseline Peyre, Maël Segalen,  
Pascale Pradat-Diehl, Véronique Marchand,  
and Agnès Roby-Brami*  
Exploring different movement sonification strategies for  
rehabilitation in clinical settings



**JUNE 30, 2018, 10:30 – 11:00, 13:00 – 14:00, and 16:00 – 16:30**

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*Alexandra Nilles, Chase Gladish, Mattox Beckman,  
and Amy LaViers*

Improv: Live Coding for Robot Movement Design

*Georges Gagneré, Cédric Plessiet, Andy Lavender,  
and Tim White*

The challenges of movement quality using motion capture  
in real-time theatrical performance

*Cumhur Erkut and Sofia Dahl*

Incorporating Virtual Reality in an Embodied Interaction Course

*Ana Tajadura-Jimenez, Aneesha Singh,  
Francisco José Cuadrado Méndez, Patricia Rick Rivera,  
Aleksander Väljamäe, Nadia Bianchi-Berthouze,  
and Frédéric Bevilacqua*

Designing a gesture-sound wearable system to motivate  
physical activity by altering body perception

# Demo sessions

**JUNE 29, 2018, 10:00 – 16:00**

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*Casa Paganini, Chapel*  
*Piazza S. Maria in Passione 34*  
**[Open to the public]**

*Kristi Kuusk, Ana Tajadura-Jiménez, and Aleksander Väljamäe*  
Magic lining: an exploration of smart textiles altering people's self-perception

*Antonio Camurri, Gualtiero Volpe, Stefano Piana, Maurizio Mancini, Paolo Albornò, and Simone Ghisio*  
The Energy Lift: automated measurement of postural tension

**JUNE 29, 2018, 10:00 – 16:00**

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*Casa Paganini, Foyer*  
*Piazza S. Maria in Passione 34*  
**[Open to the public]**

*Marina Stergiou, Katerina El Raheb, Akrivi Katifori, and Yannis Ioannidis*  
An interactive gamified experience for understanding directionality and familiarize with Laban Symbols



**JUNE 29, 2018, 11:15 – 11:45, 13:00 – 14:00, and 15:30 – 16:00**

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*S. Maria di Castello, Cloister*  
*Via S. Maria di Castello 27*

*Rafael Ramirez, Gualtiero Volpe, Corrado Canepa,  
Sergio Giraldo, Simone Ghisio, Ksenia Kolykhalova,  
Maurizio Mancini, Oscar Mayor, Alfonso Perez, Erica Volta,  
George Waddell, and Aaron Williamon*  
The TELMI Project: Enhancing Music Learning  
with Smart Technologies

**JUNE 29, 2018, 18:20 – 19:00**

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*Casa Paganini, Chapel*  
*Piazza S. Maria in Passione 34*  
**[Open to the public]**

*Daniel Bisig, Pablo Palacio, Muriel Romero, and Arnaud Pérez*  
Sounding Feet - Sonifying Foot Pressure for Dance

**JUNE 30, 2018, 10:30 – 11:00, 13:00 – 14:00, and 16:00 – 16:30**

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*S. Maria di Castello, Cloister*  
*Via S. Maria di Castello 27*

*Courtney Brown*  
Interactive Tango Milonga: Demo and Performance

*Erica Volta, Paolo Alborno, Simone Ghisio, Stefano Piana,  
Monica Gori, and Gualtiero Volpe*  
Enhancing children understanding of mathematics  
with multisensory technology



# Performances

**JUNE 28, 2018**

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*Casa Paganini, Church*  
*Piazza S. Maria in Passione 34*  
**[Open to the public]**

20:00            *Catie Cuan, Ishaan Pakrasi, and Amy LaViers*  
Time to Compile

**JUNE 29, 2018**

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*Casa Paganini, Church*  
*Piazza S. Maria in Passione 34*

11:45            *Federico Visi*  
SloMo study #2

16:00            *Within the special event “20 years of EyesWeb”*  
*[Open to the public]*

Europa: Gesture of History - Dancing Science  
and Art not to forget EU identity

*Excerpt from the scientific performance  
commissioned by EU DG Connect in occasion of  
the celebration of the Treaty of Rome, 2017.  
A project of Casa Paganini – InfoMus; in  
collaboration with Virgilio Sieni dance company  
and Andrea Cera; Federica Loredan coordinating  
amateur dance performers from Atlante del  
Gesto\_Genova<sup>2</sup>: Angelica Marioni, Lidia  
Treccani, Daniele Ferrarazza, Ettore Chernetich,  
Rosanna Bethel, and Elena Battistini.*

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<sup>2</sup> <https://www.facebook.com/atlantedelgestoGenova>

## JUNE 29, 2018

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*Casa Paganini, Foyer*  
*Piazza S. Maria in Passione 34*

18:20            *Daniel Bisig, Pablo Palacio, Muriel Romero,*  
                      *and Arnaud Pérez*  
Sounding Feet - Sonifying Foot Pressure  
for Dance

## JUNE 30, 2018

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*Casa Paganini, Church*  
*Piazza S. Maria in Passione 34*

11:00            *Lauren Bedal and Travis Bennet*  
Dual Divide

14:00            *Lauren Hayes*  
Live Electronic Music Performance:  
Embodied and Enactive Approaches



# Installations

**JUNE 29, 2018**

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*Casa Paganini, Foyer*  
*Piazza S. Maria in Passione 34*  
**[Open to the public]**

10:00 – 16:00 *Susan Kozel, Ruth Gibson, and Bruno Martelli*  
The Bronze Key: Performing and Materializing  
a Cipher System

**JUNE 30, 2018**

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*Casa Paganini, Foyer*  
*Piazza S. Maria in Passione 34*  
**[Open to the public]**

10:30 – 16:30 *Joan Karlen*  
Interaction Design Installation

**JUNE 30, 2018**

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*Casa Paganini, Chapel*  
*Piazza S. Maria in Passione 34*  
**[Open to the public]**

10:30 – 16:30 *Catie Cuan, Ishaan Pakrasi, and Amy LaViers*  
Time to Compile



# Workshops

**JUNE 28, 2018**

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*Casa Paganini, Church  
Piazza S. Maria in Passione 34*

- 9:00 – 12:30 *Scott Delahunta, Sarah Fdili Alaoui,  
Frédéric Bevilacqua, Rosemary Cisneros,  
Katerina El Raheb, Carla Fernandes,  
Anton Koch, Thembi Rosa, and Sarah Whatley*  
MOCO Annotation Workshop
- 13:30 – 15:30 *Carina Karner, Adrian Artacho,  
and Chiara Cardelli*  
Embodied Simulations of Physical Phenomena

**JUNE 28, 2018**

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*Casa Paganini, Chapel  
Piazza S. Maria in Passione 34*

- 9:00 – 12:30 *Norah Zuniga-Shaw, Kim Vincs, Carol Brown,  
and John McCormick*  
Public Dialog and Creative Facilitation for  
Humane Technology
- 13:30 – 15:30 *Georges Gagneré and Cédric Plessiet*  
Experiencing avatar direction in low cost  
theatrical mixed reality setup

## **JUNE 28, 2018**

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*Casa Paganini, Foyer*  
*Piazza S. Maria in Passione 34*

13:30 – 15:30 *The WhoLoDance Consortium*  
WhoLoDance Performative Workshop

## **JUNE 29, 2018**

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*Casa Paganini, Church*  
*Piazza S. Maria in Passione 34*

13:30 – 14:00 *Augusto Dias Pereira Dos Santos,*  
*Lie Ming Tang, Lian Loke,*  
*and Roberto Martinez-Maldonado*  
Forró Trainer: Partnering technology  
and Partner Dance



# Doctoral Consortium

*S. Maria di Castello, Cloister  
Via S. Maria di Castello 27*

**JUNE 28, 2018**

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**9:10 – 10:25      Session 1**

9:10 – 9:35      *Erica Volta and Gualtiero Volpe*  
Exploiting multimodal integration in adaptive  
interactive systems and game-based learning  
interfaces

9:35 – 10:00      *Melanie Irrgang, Jochen Steffens,  
and Hauke Egermann*  
Smartphone-Assessed Movement Predicts  
Music Properties – Towards Integrating  
Embodied Music Cognition into Music  
Recommender Services via Accelerometer  
Motion Data

10:00 – 10:25      *Kensho Miyoshi*  
Where Kinesthetic Empathy meets  
Kinetic Design

**11:00 – 12:15      Session 2**

11:00 – 11:25      *Annamaria Minafra*  
Exploring the effect of simulated movements  
on body self-awareness and the performance

11:25 – 11:50      *Kristine Bragg*  
Conversational Movement Dynamics and  
Non-Verbal Indicators of Second Language  
Development: A Microgenetic Approach

11:50 – 12:15      *Eleonora Ceccaldi and Gualtiero Volpe*  
The role of emotion in movement  
segmentation

**13:40 – 15:30 Session 3**

- 13:40 – 14:05 *Stefania Moretti and Alberto Greco*  
Assessing with the head:  
a motor compatibility effect
- 14:05 – 14:30 *Thembi Rosa and Carlos Falci*  
Registers as inventions: body, dance, memory  
and digital medias
- 14:30 – 14:55 *Garrett Laroy Johnson, Britta Joy Peterson,  
Todd Ingalls, and Xin Wei Sha*  
Lanterns: An Enacted and Material Approach  
to Ensemble Group Activity  
with Responsive Media
- 15:00 – 15:30 *Discussion and Conclusion*





# The 6th EyesWeb Week

*Casa Paganini  
Piazza S. Maria in Passione 34*

**JULY 2 - 6, 2018, 9:00 – 17:00**

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The EyesWeb Week is an intensive tutorial aiming at sharing with participants the experience of the Casa Paganini - InfoMus Research Centre in the EyesWeb project.

The main focus is on the EyesWeb XMI open software platform for scientific and technological research and development of innovative multimodal interfaces, systems, and applications (including distributed and mobile apps) in a growing number of fields, such as therapy and rehabilitation, independent living, artistic production, active experience of cultural heritage, and education.

The EyesWeb Week is open to anyone interested in learning how to use EyesWeb at various expertise levels:

- An introductory track with tutorials and guided development of multimodal applications will be given to people interested to learn how to use EyesWeb
- An advanced track will partially cover the same topics of the introductory track then give the opportunity to learn how to extend the EyesWeb software library (requires C++ skills)

For more information about the event, material and directions please refer to the event website<sup>3</sup>.

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<sup>3</sup> [http://www.infomus.org/Events/EYWweek2018/EYWweek2018\\_Home.php](http://www.infomus.org/Events/EYWweek2018/EYWweek2018_Home.php)





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