



MOCO '17
4TH INTERNATIONAL
CONFERENCE ON
MOVEMENT COMPUTING

28th June 2017

09:00-12:30 Workshop: Training, Sharing, and Enacting: Somaesthetics of Rhythmic Interaction

Cumhur Erkut and Sofia Dahl

[SIML, St James Hatcham Building](#)

09:00-12:30 Workshop: Workshop on Experience Explication Interviews for Movement Researchers and Practitioners

Sarah Fdili Alaoui

[PSH 302](#)

09:00-12:30 Doctoral Symposium

[PSH 305](#)

10:00-10:30: Coffee Break

10:30-12:30 Workshop: Workshopping Observation: Mapping the Strata of Human Movement

Karen Bradley

[PSH 314](#)

12:30-14:00 Lunch Break

13:00-14:00 Interactive Demonstration: A Space To Wonder

Klara Łuczniak and Abigail Jackson

[SIML, St James Hatcham Building](#)

13:00-14:00 Demonstration: Schrifftanz Zwei

Rommie Stalnaker, Susan Wiesner, Brian Pytlik Zillig and Stephen Ramsay

[PSH 332](#)

14:00-14:30 Conference Welcome

[PSH LG02 Lecture Theatre](#)

14:30-15:30 Opening Keynote: Mark Coniglio

[PSH LG02 Lecture Theatre](#)

15:30-16:00 Coffee Break

16:00-18:00 Session: Sensors

[PSH LG02 Lecture Theatre](#)

16:00 Initial Investigations into Characterizing DIY E-Textile Stretch Sensor

Rebecca Stewart and Sophie Skach

16:15 Methods for Tracking Dynamically Coupled Brain-Body Activities during Natural Movement

Jihye Ryu, Joseph Vero and Elizabeth Torres

16:40 Critical Appropriations of Biosensors in Artistic Practice

Teoma Naccarato and John MacCallum

17:05 Digital oxymorons: From ordinary to expressive objects using tiny wireless IMUs

Andreas Schlegel and Cédric Honnet

17:30 Assessing the Accuracy of an Algorithm for the Estimation of Spatial Gait Parameters Using Inertial Measurement Units: Application to Healthy Subject and Hemiparetic Stroke Survivor

Federico Visi, Theodoros Georgiou, Simon Holland, Ornella Pinzone, Glenis Donaldson and Josie Tetley

18:00-18:30 Performance: Corpus Nil

Marco Donnarumma and Baptiste Caramiaux

[SIML, St James Hatcham Building](#)

29th June 2017

09:00-10:00 Keynote: Dr Nadia Bianchi-Berthouze

[PSH LG02 Lecture Theatre](#)

10:00-10:30 Coffee Break

10:30-12:30 Session: Dance and Choreography

[PSH LG02 Lecture Theatre](#)

10:30 Piano&Dancer - Interaction Between a Dancer and an Acoustic Instrument

Pablo Palacio and Daniel Bisig

10:55 Capturing and Documenting Creative Processes in Contemporary Dance

Claudia Ribeiro, Rafael Kuffner and Carla Fernandes

11:20 Movement Matters: How a Robot Becomes Body

Petra Gemeinboeck and Rob Saunders

11:45 The Delay Mirror: a Technological Innovation Specific to the Dance Studio

Luis Molina-Tanco, Carmen García-Berdónés and Arcadio Reyes-Lecuona

12:10 Issues and strategies of rhythmicality for MotionComposer

Andreas Bergsland and Robert Wechsler

12:30-14:00 Lunch Break

13:00-14:00 Performance: Sentient Lanterns

Garrett Johnson and Britta Peterson

[SIML, St James Hatcham Building](#)

13:00-14:00 Demonstration: WHOLODANCE

Stefano Piana

[PSH 314](#)

13:00-14:00 Demonstration: Collective interactive machine learning using mobiles

Joseph Larralde

[PSH 305](#)

13:00-14:00 Demonstration: Bodytraces

Shu-Yuan Hsueh

[PSH 302](#)

13:00-14:00 Demonstration: Polytropos Project

Christina Mamakos

[PSH 332](#)

14:00-15:40 Session: Music, movement and gesture

[PSH LG02 Lecture Theatre](#)

14:00 Representation Strategies in Two-handed Melodic Sound-Tracing

Tejaswinee Kelkar and Alexander Refsum Jensenius

14:15 Let's play together! Real and virtual body percussionists interaction

Elisabetta Bevacqua and Gireg Desmeulles

14:30 Datasets for the Analysis of Expressive Musical Gestures

Alvaro Sarasua, Baptiste Caramiaux, Atsu Tanaka and Miguel Ortiz

14:45 Individuality in Piano Performance Depends on Skill Learning

Baptiste Caramiaux, Frédéric Bevilacqua, Marcelo Wanderley and Caroline Palmer

15:10 Rich gesture, reduced control: the influence of constrained mappings on performance technique

Robert Jack, Tony Stockman and Andrew McPherson

15:30-16:00 Coffee Break

16:00-17:40 Session 15: Expressive Movement

[PSH LG02 Lecture Theatre](#)

16:00 Data-Driven Design of Sound for Enhancing the Perception of Expressive Robotic Movement

Luke Dahl, Jon Bellona, Lin Bai and Amy Lavers

16:25 Incorporating Kinesthetic Creativity and Gestural Play into Immersive Modeling

Sung-A Jang, Graham Wakefield and Sung-Hee Lee

16:50 Dynamic Graffiti Stylisation with Stochastic Optimal Control

Daniel Berio, Sylvain Calinon and Frederic Fol Leymarie

17:15 Storytelling with Interactive Physical Theatre: A case study of Dot and the Kangaroo
Andrew Bluff and Andrew Johnston

18:00-19:30 Drinks and Buffet Dinner Reception

Please note: Ticketed Event

[PSH Weston Atrium](#)

20:00-22:00 Public Evening Performance

Please note: Ticketed Event

[Deptford Town Hall Council Chamber](#)

20:00 0←J

Ian Heisters, Sheldon Smith and Lisa Wymore

20:30 still, moving

Jules Françoise, Yves Candau and Sarah Fdili Alaoui

21:00 Intersubjective Soundings

Doug Van Nort

21:20 WebPage in Three Acts

Joana Chicau

30th June 2017

09:00-10:30 Session: Movement Interaction Design

[PSH LG02 Lecture Theatre](#)

09:00 Leveraging morphological computation for expressive movement generation in a soft robotic artwork

Jonas Jørgensen

09:15 Cultivating kinaesthetic awareness through interaction: Perspectives from somatic practices and embodied cognition

Yves Candau, Jules Françoise, Sarah Fdili Alaoui and Thecla Schiphorst

09:40 Towards an Aesthetics of Touch

Lauren Hayes and Jessica Rajko

10:05 Embodied Interaction through Movement in a Course Work

Cumhur Erkut and Sofia Dahl

10:30-11:00 Coffee Break

11:00-12:40 Session: Understanding Movement

[PSH LG02 Lecture Theatre](#)

11:00 The social-dance: decomposing naturalistic dyadic interaction dynamics to the 'micro-level'

Caroline Whyatt and Elizabeth Torres

11:25 Calligraphic Stylisation Learning with a Physiologically Plausible Model of Movement and Recurrent Neural Networks

Daniel Berio, Memo Akten, Frederic Fol Leymarie, Mick Grierson and Réjean Plamondon

11:50 Morphology Independent Feature Engineering in Motion Capture Database for Gesture Evaluation

Mickaël Tits, Joëlle Tilmanne and Thierry Dutoit

12:15 Pattern Classification of Hand Movements using Time Domain Features of Surface Electromyography for Myoelectric Control

Carl Peter Robinson, Baihua Li, Qinggang Meng and Matthew Pain

12:30-14:00 Lunch Break

13:00-14:00 Performance: Analogue Movement Scores

Marguerite Galizia and Tom Richards

[SIML, St James Hatcham Building](#)

13:00-14:00 Performance: Piano&Dancer

Pablo Palacio Fernandez, Daniel Bisig and Muriel Romero

[EMS \(RHB 155-159\)](#)

13:00-14:00 Performance: screensaver

Janine Harrington, Jamie Forth, Elisa Vassena, Stella Papi, Vanessa Abreu and Charlie Ashwell

[PSH Weston Atrium](#)

13:00-14:00 Demonstration: SOMAVISION

Vesna Petresin, Frederic Fol Leymarie, Prashant Aparajeya and Stefan Rueger

[PSH 332](#)

14:00-15:05 Session: Movement Qualities

[PSH LG02 Lecture Theatre](#)

14:00 Breakdown Harmonica: Extending Laban Notation with Video Game Development Tools

Kirk Woolford

14:25 Limbs synchronization as a measure of movement quality in karate

Paolo Albornò, Nikolas De Giorgis, Antonio Camurri and Enrico Puppo

14:50 Graph-restricted game approach for investigating human movement qualities

Ksenia Kolykhalova, Giorgio Gnecco, Marcello Sanguineti, Antonio Camurri and Gualtiero Volpe

15:00-15:30 Coffee Break

15:30-16:30 Closing Keynote: Dr Tamar Flash

[PSH LG02 Lecture Theatre](#)

16:30-17:00 Closing Remarks

[PSH LG02 Lecture Theatre](#)

Demonstrations, Practice Work, and Games

PSH Weston Atrium

Collaborative 2D center of mass serious game

Mehdi Hamamda

Maria Montessori meets gesture tracking technologies

Adrien Husson

The Box: A Game About Two-Handed 3D Rotation

Carlos Gonzalez Diaz

Wired 2

Karen Wood

Becoming Light

Timothy Wood

Jinn-Ginnaye

Kirk Woolford

Posters

PSH Weston Atrium

Four-way mirror game: developing methods to study group coordination

Tommi Himberg, Klaus Förger and Asaf Bachrach

Kinetic predictors of spectators' segmentation of a live dance performance

Klaus Förger, Coline Joufflineau and Asaf Bachrach

Syntax Error - Choreographic Coding

Marvin Bratke, Alexander Grasser and Paul Clemens Bart

Musical Skin: Fabric Interface for Expressive Music Control

Maurin Donneaud, Cedric Honnet and Paul Strohmeier

P.A.C. (Performative Auditory Creation)

Ioannis Sidiropoulos

Measuring Impact of Social Presence Through Gesture Analysis in Musical Performances

Simon Schaerlaeken, Donald Glowinski and Didier Grandjean

Pinoke: Using human movement to guide a robot's dance

John McCormick, Stephanie Hutchison, Jordan Beth Vincent, Kim Vincs and Adam Nash

Algorithmic Reflections on Choreography

Pablo Ventura and Daniel Bisig

Symbiosis - Interspecific Associations in Collaborative Performance

Manoli Moriaty

MoFeat: The Movement Features Database

Jules Françoise, Omid Alemi, Thecla Schiphorst and Philippe Pasquier

Tangible Tiles for Laban Movement Analysis

Sarah Fdili Alaoui, Jeewon Lee and Thecla Schiphorst

An Educational Experience with Motor Planning and Sound Semantics

Michele Geronazzo, Francesca Nardello and Paola Cesari

Methods to Track Dynamically Coupled Bodies in Artistic Motion

Vilemini Kalampratsidou and Elizabeth Torres

Doctoral Symposium Participants

The Effect of Control-Display Ratio in Handheld Motion Controllers on Player Immersion: A Pilot Study

Carlos Gonzalez Diaz

Towards Automatic Unsupervised Segmentation of Music-Induced Arm Gestures from Accelerometer Data

Juan Ignacio Mendoza Garay and Marc Richard Thompson

Body-brain-avatar Interface: a tool to study sensory-motor integration and neuroplasticity

Vilemini Kalampratsidou and Elizabeth Torres

Sentimental Soft Robotics as Companion Artefacts

Caroline Zheng

Truly performative within a distributed network

Alejandro Daniel Ball

VIMOs: Enabling Expressive Mediation and Generation of Embodied Musical Interactions

Hugo Scurto and Frédéric Bevilacqua

Fibres, Fabrics and F-Formations

Sophie Skach, Rebecca Stewart and Patrick Healey

Embodied contemplative practices and interactive music

Marcello Lussana

ConDiS – Conducting Digital System

Hilmar Thordarson

Co-adaptive Tools to Support Expert Creative Practice

Marianela Ciolfi Felice

Amateur User-Centered Software for Creative, Diverse 3D Human Avatar Design

Kiona Hagen Niehaus

Embodied Consciousness During Meditative Moving - neurocognitive theories

Aska Sakuta

Local Cafés, Restaurants, and Pubs

Cafés

Chinwag - 21 Lewisham Way

Goldsmiths Café - 25 Lewisham Way
+44 20 8694 6940

Out of the Brew - 306 New Cross Road
<http://www.outofthebrewcafe.com/>

Birdie Num Nums - 11 Lewisham Way
+44 20 8692 7223

Restaurants

Thailand - 15 Lewisham Way
<https://thailand-newcross.co.uk/menu>

Cinnamon - 10 Upper Brockley Road
cinnamon-brockley.co.uk

Meze Mangal - 245 Lewisham Way
mezemangal.co.uk

The Rosemary - 178 New Cross Road
<http://www.therosemary.london/>

Pubs

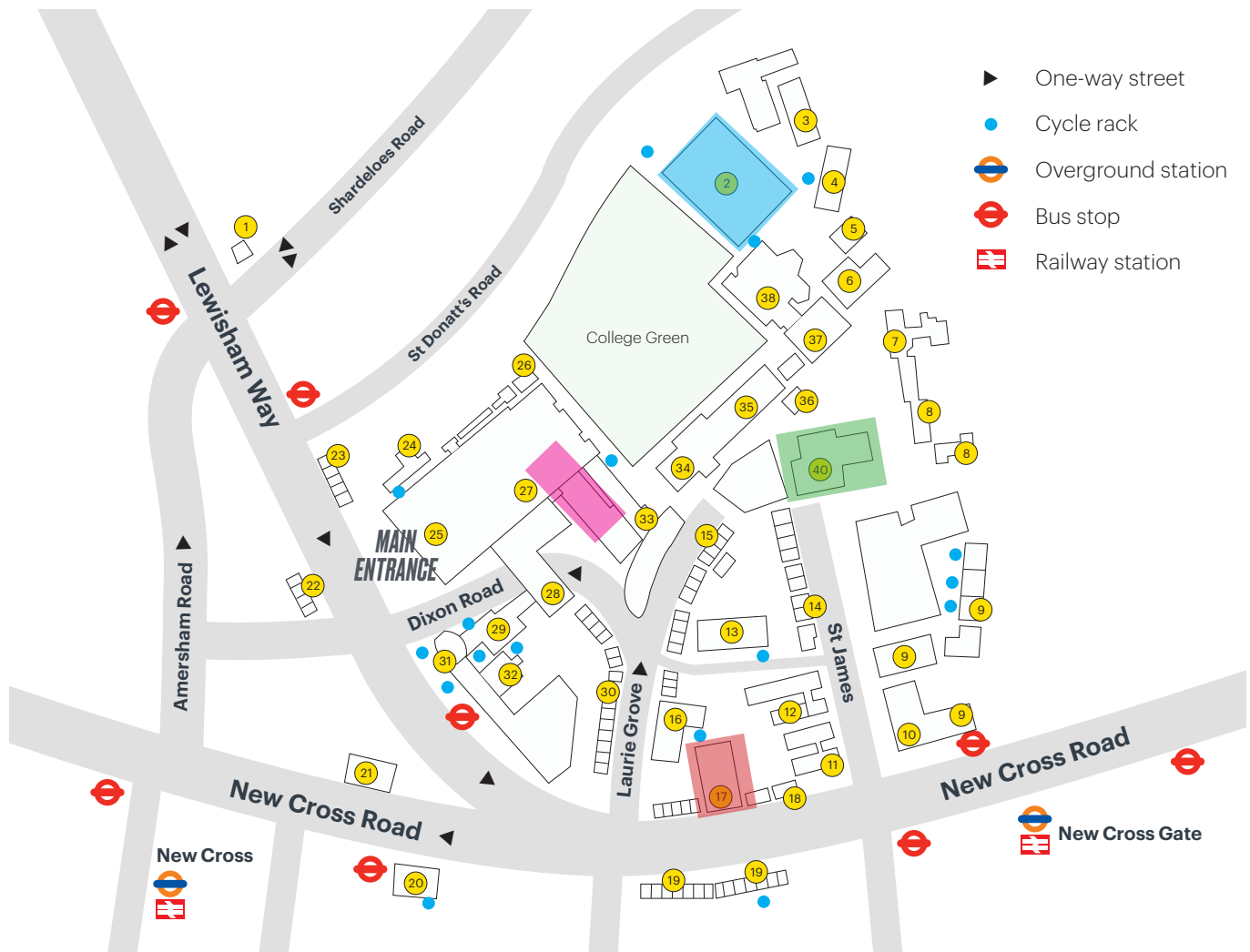
New Cross House - 316 New Cross Road
thenewcrosshouse.com

The Fat Walrus - 44 Lewisham Way
<http://www.thefatwalrus.com/>

The Rose - 272 New Cross Road
rosepubandkitchen.com

The Royal Albert - 460 New Cross Road
royalalbertpub.com

Goldsmiths Campus Map



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30-40 Lewisham Way **23**
 41-43 Lewisham Way **22**
 286/288 New Cross Road **18**
 Barriedale Building B (Studio B) **03**
 Barriedale Building E (Hut E) **05**
 Batavia Mews **19**
 Ben Pimlott Building **13**
 The Bungalow **36**
 Careers Service **15**
 Central Stores **12**
 Chaplaincy Centre **30**
 Chesterman House **21**
 Club Pulse (Fitness Centre & Gym) **38**
 Confucius Institute for Dance
& Performance **41**
 Counselling Service **07**

Dean House **20**
 Deptford Town Hall Building **17**
 Education Building **29**
 Enterprise Office **14**
 George Wood Theatre **33**
 Graduate School **35**
 Ian Gulland Lecture Theatre **34**
 Laurie Grove Baths Building **16**
 Lockwood Annexe (Hut F) **06**
 Lockwood Building **37**
 Loring Hall **09**
 Loring Hall Management Centre
(Accommodation Office) **10**
 Media Research Building **04**
 Music Practice Rooms **26**
 Professor Stuart Hall Building **02**

Nursery **39**
 Print Services **24**
 Professor Stuart Hall Building **02**
 Richard Hoggart Building **25**
 Rutherford Building (Library & IT
Services) **31**
 Santander Bank **27**
 St James Annexe **11**
 St James Hall **07**
 St James Hall (Media &
Communications) **08**
 St James Hatcham Building **40**
 Students' Union **28**
 Surrey House & Surrey Annexe **01**
 Warmington Tower **32**
 Whitehead Building **35**