

**19<sup>th</sup> Conference on New Interfaces for Musical Expression – NIME 2019  
Porto Alegre, Brazil  
3-6 June 2019**

## **Programme**

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### **MUSIC**

**Salão de Atos of UFRGS  
Monday, 3<sup>rd</sup> June 2019  
At 20:00**

**TROIS MACHINS DE LA GRÂCE AIMANTE (CORETET NO. 1)**

Rob Hamilton                      Rensselaer Polytechnic Institute, Troy, United States

**iCONS**

Rodrigo F. Cádiz                      Pontificia Universidad Catolica de Chile, Santiago, Chile

**UNCERTAIN RHYTHMS**

Paul Stapleton                      Sonic Arts Research Centre, Belfast, United Kingdom

**VERSE N.1**

Luiz Naveda                      State University of Minas Gerais, Belo Horizonte, Brazil  
Natacha Lamounier                      State University of Minas Gerais, Belo Horizonte, Brazil

**VRENGT: A SHARED BODY-MACHINE INSTRUMENT FOR MUSIC-DANCE PERFORMANCE**

Alexander Refsum Jensenius                      University of Oslo, Norway  
Cagri Erdem                      University of Oslo, Norway  
Katja Henriksen Schia                      University of Oslo, Norway

**TANTO MAR**

André Lopes Martins                      Universidade de São Paulo - USP, Brazil  
Paulo Assis                      Universidade de São Paulo - USP, Brazil

**TEMPO TRANSVERSAL - FLAUTA EXPANDIDA**

Cássia Carrascoza Bomfim                      Universidade de São Paulo - USP, Brazil  
Felipe Merker                      Federal University of Pelotas, Pelotas, Brazil

**Salão de Atos of UFRGS  
Tuesday, 4<sup>th</sup> June 2019**

**At 20:00**

**GIRA**

João Nogueira Tragtenberg  
Filipe Calegario

SENAI Innovation Institute for ICT, Recife, Brazil  
SENAI Innovation Institute for ICT, Recife, Brazil

**BAD MOTHER / GOOD MOTHER - AN AUDIOVISUAL PERFORMANCE**

Annina Rüst

Florida Atlantic University, Jupiter, United States

**COLLIGATION**

James Dooley

Royal Birmingham Conservatoire, Birmingham, United Kingdom

**SELF-BUILT INSTRUMENT**

Jiyun Park

Academy of Media Art Cologne, Cologne, Germany

**BORROWED VOICES: PERFORMATIVE SINGING SYNTHESIS FEATURING T-VOKS AND C-VOKS**

Boris Doval  
Christophe d'Alessandro  
Grégoire Locqueville  
Xiao Xiao

Institut Jean Le Rond d'Alembert, Paris, France  
CNRS Sorbonne Université, Paris, France  
Institut Jean Le Rond d'Alembert, Paris, France  
MIT Media Lab, Cambridge, United States

**DIY BIONOISE**

Sabina Hyoju Ahn

Kunstuniversität Linz, Linz, Austria

**MUSICCURSOR**

Martim Galvão

Brown University, Providence, United States

**PYTHAGOREAN DOMINO**

Ana Dall'Ara-Majek  
Takuto Fukuda

CIRMMT, Montreal, Canada  
CIRMMT Montreal, Canada

**Agulha Night Club**  
**Thursday, 6<sup>th</sup> June 2019**  
**At 20:00**

**KEYNOTE**

Ana María Romano Gomez

Universidad El Bosque, Colombia

**WE BASS: INTER(ACTIONS) ON A HYBRID INSTRUMENT**

Miguel Antar  
Paulo Assis

University of São Paulo, São Paulo, Brazil  
University of São Paulo, São Paulo, Brazil

**FLEXSYNTH: BLENDING MULTI-DIMENSIONAL SONIC SCENES**

Tom Ajin Jiji

McGill University, Montreal, Canada

**FIBER OPTIC MIDI CONTROLLER**

Jesse Simpson

New York University, United States

**SOUND OF COMPUTING THE SIGNAL ANALYSIS OF GRAVITY WAVES**

Edgar Berdahl

School of Music, Louisiana State University, Baton Rouge,  
Louisiana, United States

**PANDEMONIUM TRIO**

Barry J. Cullen

Sonic Arts Research Centre, Belfast, United Kingdom

Miguel Ortiz  
Paul Stapleton

Sonic Arts Research Centre, Belfast, United Kingdom  
Sonic Arts Research Centre, Belfast, United Kingdom

## **OPEN JACK NIGHT**

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## **INSTALLATIONS**

**Centro Cultural and Sala dos Sons of UFRGS  
Porto Alegre, 3<sup>rd</sup> – 6<sup>th</sup> June 2019**

### **MARKOV MAGIC CIRCLE**

Sofy Yuditskaya

### **Sala dos Sons of UFRGS**

Music Dept, NYU/GSAS, NYC, New York, United States

### **TOUCHING AFFECTIVE**

Hannah E. Wolfe

### **Hall 312**

Media Arts and Technology, University of California, Santa Barbara, Santa Barbara, California, United States

### **CHOWNDOLO**

Giacomo Lepri

Alessia Milo  
Fabio Morreale

### **Room 312**

Centre for Digital Music, Queen Mary University, London, United Kingdom  
Queen Mary University of London, London, United Kingdom  
Creative Arts and Industries, University of Auckland, Auckland, New Zealand

### **MATERIA ANIMATA**

Ricardo Scholz

Iuru Brainer Araújo Tregne

### **Room 308**

Informatics Centre, Universidade Federal de Pernambuco, Recife/PE, Brazil  
UM Coletivo, Recife/PE, Brazil

### **GUAÍBA'S SOUND ISLAND**

Camila Proto

### **Hall 308**

Federal University of Rio Grande do Sul, Porto Alegre/RS, Brazil

### **SOMACOUSTICS**

Maros Suran Bomba  
Palle Dahlstedt

### **Room 304**

Aalborg University, Aalborg, Denmark  
Dept. of Communication, Aalborg University, Aalborg, Denmark  
Dept. of Computer Science and Engineering, University of Gothenburg, Gothenburg, Sweden

### **ACTING VOICES – Madrigale a Sei Vasi**

### **Room 305**

Paulo Vitor Itaboraí  
Alex Buck

Universidade de São Paulo, São Paulo, Brazil  
CalArts, Santa Clarita, California, United States

### **Embodied Sonic Meditation: Resonance of the Heart**

Jiayue Cecilia Wu  
Donghao Ren

University of Colorado , Denver, Colorado, United States  
University of California, Santa Barbara, California, United States

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## **DEMOS**

**Room 211**  
**Porto Alegre, 4<sup>th</sup> June 2019**  
**Demo Session: 1 & 2**

### **SCREENPLAY: A TOPIC-THEORY-INSPIRED INTERACTIVE SYSTEM**

George Meikle

Performing Arts, Edge Hill University, Ormskirk, Lancashire,  
United Kingdom

#### **MUSCULAR WIRES**

Monica Bate

Departamento de Artes Visuales, Universidad de Chile, Santiago,  
RM, Chile

Javier Jaimovich

Departamento de Sonido, Universidad de Chile, Santiago, RM,  
Chile

Francisca Morand

Departamento de Danza, Universidad de Chile, Santiago, RM,  
Chile

### **AUDIOSTELLAR: A SAMPLER-LIKE MUSICAL INSTRUMENT FOR LATENT SOUND STRUCTURE DISCOVERY AND EXPERIMENTATION**

Leandro Garber  
Tomás Ciccola

CONICET, CIIPME, Capital Federal, Argentina  
MUNTREF Art and Science, UNTREF, Buenos Aires, Argentina

#### **HANDY INTERMODULATOR**

Laewoo Kang

Information Science, Cornell University, Ithaca, New York, United  
States

#### **EAVI EMG board**

Balandino Di Donato

Embodied Audiovisual Interaction Unit, Computing Department,  
Goldsmith, University of London, London, England, United  
Kingdom

Atau Tanaka

EAVI, Goldsmiths, University of London, London, United  
Kingdom

Michael Zbyszynski

Goldsmiths University of London, London, United Kingdom

### **A "VOICE" INSTRUMENT WITH NEUTRAL VOICE AND INTONATION BASED ON VOCAL TRACT MODELS WITH SOFT MATERIAL**

Kazuhiro Jo  
Fou Yoshimura

Faculty of Design, Kyushu University, Fukuoka, Japan  
Graduate School of Design, Kyushu University, Fukuoka, Japan

**STEAM SYNTH: SYNTHESIS WITH TACTILE, ELECTRONIC, ACOUSTIC AND MECHANICAL PROPERTIES**

Stephen J Harhai

Handmade Electronic Instruments, Denver, Colorado

**Room 211**

**Porto Alegre, 5<sup>th</sup> June 2019**

**Demo Session: 3 & 4**

**COLLABORATIVE MUSICAL PERFORMANCES WITH AUTOMATIC HARP BASED ON IMAGE RECOGNITION AND FORCE SENSING RESISTORS**

Yupu Lu

School of Aerospace Engineering, Tsinghua University,  
Beijing, China

Yijie Wu  
Yuxiang Ma

Department of Computer Science, The University of Hong Kong  
School of Aerospace Engineering, Tsinghua University,  
Beijing, China

Shijie Zhu

School of Aerospace Engineering, Tsinghua University,  
Beijing, China

**AUSYNTHAR: A SIMPLE LOW-COST MODULAR SYNTHESIZER BASED ON AUGMENTED REALITY**

Pedro Pablo Lucas

Independent Researcher, Guayaquil, Ecuador

**CHORDATA: A STRING BASED MUSIC CONTROLLER**

Stevie Jonathan Sutanto  
Wesley Lee Yang

Interface Cultures, Kunstuniversität Linz, Linz, Austria  
Interface Cultures, Kunstuniversität Linz, Linz, Austria

**ACADEMIC FESTIVAL OVERTURE**

Dietmar Hellmich  
Oliver Hödl

Composer, Vienna, Austria  
Faculty of Informatics, Cooperative Systems Research Group,  
University of Vienna, Vienna, Austria

**VIRTUAL HOMO DEUS 1**

Philip Liu

Berlin University of the Arts, Berlin, Germany

**Room 211**

**Porto Alegre, 6<sup>th</sup> June 2019**

**Demo Session: 5 & 6**

**EXPLORING THE CONTAINER METAPHOR FOR EQUALISATION MANIPULATION**

Christopher Dewey

School of Computing and Engineering, University of Huddersfield,  
Huddersfield, United Kingdom

Jonathan P. Wakefield

School of Computing and Engineering, University of Huddersfield,  
Huddersfield, United Kingdom

**A SPATIALLY DISTRIBUTED VIBROTACTILE ACTUATOR ARRAY FOR THE FINGERTIPS**

Edgar Berdahl Louisiana State University, Baton Rouge, Louisiana, United States  
Austin Franklin Louisiana State University, Baton Rouge, Louisiana, United States  
Eric Sheffield Louisiana State University, Baton Rouge, Louisiana, United States

**GRAIN PRISM: HIEROGLYPHIC INTERFACE FOR GRANULAR SAMPLING**

Gabriela Bila Advincula Media Lab - City Science, MIT, Cambridge, Massachusetts, United States  
Don Derek Haddad Responsive Environments, Media Lab, MIT, Cambridge, Massachusetts, United States  
Kent Larson MIT, Cambridge, Massachusetts, United States

**AMIGO: AN ASSISTIVE MUSICAL INSTRUMENT TO ENGAGE, CREATE AND LEARN MUSIC**

Isabela Corintha Sound Design for Digital Media, FEUP, Porto, Portugal  
Giordano Cabral Centro de Informática, Universidade Federal de Pernambuco, Recife, Pernambuco, Brazil  
Gilberto Bernardes Sound Design for Digital Media, FEUP, Porto, Portugal



**WORKSHOPS**

**Centro Cultural of UFRGS  
Porto Alegre, 3rd June 2019**

**NIME PRIMER WORKSHOP**

**Room 309  
From 9:00 to 11:30**

Dan Overholt Sound and Music Computing, Aalborg University, Copenhagen, Denmark  
Stefania Serafin Department of Architecture, Design and Media Technology, Aalborg University, Copenhagen, Denmark  
Laurel Pardue Department of Architecture, Design and Media Technology, Aalborg University, Copenhagen, Denmark

**COSMO WORKSHOP: INTRODUCTION TO EFFECT PROCESSING WITH CSOUND AND THE COSMO-DSP LIBRARY**

**Room 211  
From 9:00 to 13:00**

Alex Hofmann Dept. of Music Acoustics, \*University of Music and Performing Arts Vienna; \*\*Austrian Academy of Sciences, Vienna, Austria  
Bernt Isak Wærstad Norwegian Academy of Music, Music Technology, Oslo, Norway

**MAKING PREDICTIVE NIMES WITH NEURAL NETWORKS**

**Room 311**  
**From 9:00 to 18:30**

Charles Patrick Martin	Research School of Computer Science, The Australian National University, Canberra, Australia
Jim Torresen	Department of Informatics, University of Oslo, Oslo, Norway
Tejaswinee Kelkar	Department of Musicology, University of Oslo, Oslo, Norway

**OPEN RESEARCH STRATEGIES AND TOOLS IN THE NIME COMMUNITY**

**Room 309**  
**Part 1 from 11:30 to 13:00**  
**Part 2 from 14:30 to 16:00**

Alexander Refsum Jensenius	University of Oslo,Oslo, Norway
Andrew P. McPherson	Queen Mary University of London, London, United Kingdom
Anna Xambó	Norwegian University of Science and Technology, Trondheim,Norway
Dan Overholt	Aalborg University,Copenhagen,Denmark
Guillaume Pellerin	IRCAM,Paris,France
Ivica Ico Bukvic	Virginia Tech,Blacksburg,Virginia, United States
Rebecca Fiebrink	Goldsmiths University of London,London,United Kingdom
Rodrigo Schramm	Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil

**ETHICS AT NIME**

**Room 309**  
**From 16:00 to 18:30**

Alexander Refsum Jensenius	University of Oslo, Oslo, Norway
Rodrigo Schramm	Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil
Lamberto Coccioli	Royal Birmingham Conservatoire, Birmingham, UK
Clara Mancini	The Open University, Milton Keynes, UK
Michael J. Lyons	Ritsumeikan University Kyoto, Japan

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## PAPERS

Robotics & Mechatronics

**Room 309**  
**Tuesday, 4<sup>th</sup> June 2019**  
**At 9:00**

### KEYNOTE

Marcelo Wanderley McGill University, Canada

### AN ACTIVE WINE GLASS SYSTEM WITH A LIQUID SLOSHING VIBRATO MECHANISM

Lior Arbel Faculty of Architecture and Town Planning, Technion - Israel  
Institute of Technology, Haifa, Israel  
Yoav Y. Schechner Viterbi Faculty of Electrical Engineering, Technion - Israel  
Institute of Technology, Haifa, Israel  
Noam Amir Department of Communication Disorders, Sackler Faculty  
of Medicine, Tel Aviv University, Tel Aviv, Israel

### EXPLORING DYNAMIC VARIATIONS FOR EXPRESSIVE MECHATRONIC CHORDOPHONES

Juan Pablo Yepez Placencia School of Engineering and Computer Science,  
Victoria University of Wellington, Wellington, New Zealand  
Jim Murphy New Zealand School of Music, Victoria University of  
Wellington, Wellington, New Zealand  
Dale Carnegie School of Engineering and Computer Science, Victoria University  
of Wellington, Wellington, New Zealand

### EXPLORING HUMAN-MACHINE SYNERGY AND INTERACTION ON A ROBOTIC INSTRUMENT

Sang-won Leigh Media Lab, MIT, Cambridge, Massachusetts, United States  
Abhinandan Jain Media Lab, MIT, Cambridge, Massachusetts, United States  
Pattie Maes Media Lab, MIT, Cambridge, Massachusetts, United States

Theory & Evaluation

**Room 309**  
**Tuesday, 4<sup>th</sup> June 2019**  
**At 11:30**

### BESPOKE DESIGN FOR INCLUSIVE MUSIC: THE CHALLENGES OF EVALUATION

Alex Michael Lucas Sonic Arts Research Centre, Queens University Belfast, Belfast,  
United Kingdom  
Miguel Ortiz Sonic Arts Research Centre, Queen's University Belfast, Belfast,  
United Kingdom, United Kingdom  
Franziska Schroeder Sonic Arts Research Centre, Queens University Belfast, Belfast,  
United Kingdom

### MATERIAL EMBODIMENTS OF ELECTROACOUSTIC MUSIC: AN EXPERIMENTAL WORKSHOP STUDY

Enrique Tomas Tangible Music Lab, University of Art and Design of Linz, Linz,  
Austria  
Thomas Gorbach Multidisciplinary Design Group, Institute of Design and



Hilda Tellioglu Assessment of Technology, Faculty of Informatics, TU Wien,  
Vienna, Austria  
Multidisciplinary Design Group, Institute of Design and  
Assessment of Technology, Faculty of Informatics, TU Wien,  
Vienna, Austria

Martin Kaltenbrunner Tangible Music Lab, University of Art and Design of Linz, Linz,  
Austria

### **REANIMATING THE READYMADE**

Peter Bussigel Emily Carr University, Vancouver, Canada  
Stephan Moore Northwestern University, Dept. of Radio, Television &  
Film, Evanston, IL, United States  
Scott Smallwood University of Alberta, Edmonton, Canada

### **FICTIONAL INSTRUMENTS, REAL VALUES: DISCOVERING MUSICAL BACKGROUNDS WITH NON-FUNCTIONAL PROTOTYPES**

Giacomo Lepri Centre for Digital Music, Queen Mary University of London, UK  
Andrew P. McPherson Centre for Digital Music, Queen Mary University of London, UK

Sensors, Multi-touch & Network

**Room 309**  
**Tuesday, 4<sup>th</sup> June 2019**  
**At 14:30**

### **MAGPICK: AN AUGMENTED GUITAR PICK FOR NUANCED CONTROL**

Fabio Morreale Creative Arts and Industries, University of Auckland, Auckland,  
New Zealand  
Andrea Guidi Electronic Engineering and Computer Science, Queen Mary  
University of London, London, Greater London, United Kingdom  
Andrew P. McPherson Centre for Digital Music, Queen Mary University of London,  
London, United Kingdom

### **BENDIT\_I/O: A SYSTEM FOR NETWORKED PERFORMANCE OF CIRCUIT-BENT DEVICES**

Anthony T. Marasco Experimental Music & Digital Media, Louisiana State University,  
Baton Rouge, Louisiana, United States  
Edgar Berdahl Louisiana State University, Baton Rouge, Louisiana, United States

### **ILLUMIWEAR: A FIBER-OPTIC ETEXTILE FOR MULTIMEDIA INTERACTIONS**

Josh Urban Davis Discovery Lab, Dartmouth College, Hanover, New  
Hampshire, United States

### **PRACTICAL CONSIDERATIONS FOR MIDI OVER BLUETOOTH LOW ENERGY AS A WIRELESS INTERFACE**

Johnty Wang Input Devices and Music Interaction Laboratory, McGill  
University, Montreal, Quebec, Canada  
Axel Mulder Infusion Systems, Montreal, Quebec, Canada  
Marcelo Wanderley Music Technology, Schulich School of Music, McGill University  
Montreal, Quebec, Canada

History & Critique

**Room 309**  
**Tuesday, 4<sup>th</sup> June 2019**

At 17:00

**LEARNING FROM HISTORY: RECREATING AND REPURPOSING HARRIET PADBERG'S COMPUTER COMPOSED CANON AND FREE FUGUE**

Richard J Savery	Georgia Tech Center for Music Technology, Atlanta, Georgia, United States
Jason Brent Smith	Georgia Tech Center for Music Technology, Atlanta, Georgia, United States
Benjamin Genchel	Georgia Tech Center for Music Technology, Atlanta, Georgia, United States
Anthony Caulkins	No affiliation
Molly E Jones	No affiliation
Anna Savery	No affiliation

**LATIN AMERICAN NIMES: Electronic Musical Instruments and Experimental Sound Devices in the Twentieth Century**

Martin Matus Lerner	Universidad Nacional de Quilmes, Buenos Aires, Argentina
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**THE MODULAR BACKWARD EVOLUTION - WHY TO USE OUTDATED TECHNOLOGIES**

Beat Rossmly	Mediainformatics Lab, LMU University of Munich, Munich, BY, Germany
Alexander Wiethoff	Media Informatics Lab, Ludwig-Maximilians University of Munich (LMU), Munich, Germany

**EPHEMERAL INSTRUMENTS**

Vincent Goudard	Sorbonne Université, Paris, France
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New Instruments & Interactions

**Room 309**  
**Wednesday, 5<sup>th</sup> June 2019**  
**At 9:00**

**KEYNOTE**

Eduardo Reck Miranda	Plymouth University, United Kingdom
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**ADAPTIVE MULTIMODAL MUSIC LEARNING VIA INTERACTIVE HAPTIC INSTRUMENT**

Yian Zhang	NYU Shanghai, Shanghai, China
Yinmiao Li	NYU Shanghai, Shanghai, China
Daniel Chin	NYU Shanghai, Shanghai, China
Gus Xia	NYU Shanghai, Shanghai, China

**BLIKSEM: AN ACOUSTIC SYNTHESIS FUZZ PEDAL**

Lloyd May	Bregman Studio, Dartmouth College, Hanover, New Hampshire, United States
Spencer Topel	Bregman Studio, Department of Music, Dartmouth College, Hanover, New Hampshire, United States Yale Quantum Institute, Yale University, New Haven, Connecticut, United States

**REBUILDING AND REINTERPRETING A DIGITAL MUSICAL INSTRUMENT - THE SPONGE**

Ajin Jiji Tom	CIRMMT, Music Technology Department, McGill University,
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Harish Jayanth Venkatesan	Montreal, Quebec, Canada Music Technology, Schulich School of Music, McGill University, Montreal, Quebec, Canada
Ivan Franco	Music Technology, Schulich School of Music, McGill University, Montreal, Quebec, Canada
Marcelo Wanderley	Music Technology, Schulich School of Music, McGill University, Montreal, Quebec, Canada

### Instrument Augmentation

**Room 309**  
**Wednesday, 5<sup>th</sup> June 2019**  
**At 11:30**

#### **DRMMR: AN AUGMENTED PERCUSSION IMPLEMENT**

Hunter Brown	Digital Musics, Dartmouth College, Hanover, New Hampshire, United States
Spencer Topel	Music, Dartmouth College, Hanover, New Hampshire, United States Yale Quantum Institute, Yale University, New Haven, Connecticut, United States

#### **THE SLOWQIN: AN INTERDISCIPLINARY APPROACH TO REINVENTING THE GUQIN**

Echo Ho	Tangible Music Lab - Institute of Media Studies, University of Art and Design, Linz, Austria
Alberto de Campo	Generative Art / Computational Art at the Institute for Time-Based Media, Berlin University of the Arts, Berlin, Germany

#### **TAMING AND TICKLING THE BEAST - MULTI-TOUCH KEYBOARD AS INTERFACE FOR A PHYSICALLY MODELLED INTERCONNECTED RESONATING SUPER-HARP**

Palle Dahlstedt	Dept. of Computer Science and Engineering, University of Gothenburg, Gothenburg, Sweden Dept. of Communication, Aalborg University, Aalborg, Denmark
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#### **SEPARATING SOUND FROM SOURCE: SONIC TRANSFORMATION OF THE VIOLIN THROUGH ELECTRODYNAMIC PICKUPS AND ACOUSTIC ACTUATION**

Laurel Pardue	Department of Architecture, Design and Media Technology, Aalborg University, Copenhagen, Denmark
Kuriijn Buys	Centre for Digital Music, Queen Mary University of London, UK
Dan Overholt	Centre for Digital Music, Queen Mary University of London, UK Sound and Music Computing, Aalborg University, Copenhagen, Denmark
Andrew P. McPherson	Centre for Digital Music, Queen Mary University of London, UK
Michael Edinger	Musiklab, Copenhagen, Denmark

### Inclusion, Education & Collaboration

**Room 309**  
**Wednesday, 5<sup>th</sup> June 2019**  
**At 14:30**

#### **STRATEGIES TO FACILITATE RAPID CREATIVE DEVELOPMENT WITH MULTIPLE NETWORKED DEVICES USING HAPPYBRACKETS**

Oliver Bown	UNSW Faculty of Art & Design, Interactive Media Lab, Sydney, NSW, Australia
Angelo Fraietta	UNSW Art and Design, University of NSW, Paddington, New South Wales, Australia
Sam Ferguson	Faculty of Engineering and IT, University of Technology Sydney, Sydney, NSW, Australia
Lian Loke	Architecture, Design and Planning, University of Sydney, Sydney, Australia

## **ON THE INCLUSIVITY OF CONSTRAINT: CREATIVE APPROPRIATION IN INSTRUMENTS FOR NEURODIVERSE CHILDREN AND YOUNG PEOPLE**

Joe Wright  
Integra Lab, Royal Birmingham Conservatoire, Birmingham City University, Birmingham, United Kingdom

James Dooley  
Integra Lab, Royal Birmingham Conservatoire, Birmingham, West Midlands, United Kingdom

## **NIME PROTOTYPING IN TEAMS: A PARTICIPATORY APPROACH TO TEACHING PHYSICAL COMPUTING**

Anna Xambó  
Department of Music, Norwegian University of Science and Technology, Trondheim, Norway

Sigurd Saue  
Department of Music, Norwegian University of Science and Technology, Trondheim, Norway

Alexander Refsum Jensenius  
University of Oslo, Oslo, Norway

Robin Støckert  
Department of Mathematical Sciences, Norwegian University of Science and Technology, Trondheim, Norway

Oeyvind Brandtsegg  
Department of Music, Norwegian University of Science and Technology, Trondheim, Norway

## **SOUND CONTROL: SUPPORTING CUSTOM MUSICAL INTERFACE DESIGN FOR CHILDREN WITH DISABILITIES**

Samuel Thompson Parke-Wolfe  
Department of Computing, Goldsmiths University of London, United Kingdom

Hugo Scurto  
STMS Ircam-CNRS-Sorbonne Université, Paris, France

Rebecca Fiebrink  
Department of Computing, Goldsmiths University of London, London, United Kingdom

### Software & Algorithms

**Room 309**  
**Wednesday, 5<sup>th</sup> June 2019**  
**At 17:00**

## **VENEER: VISUAL AND TOUCH-BASED PROGRAMMING FOR AUDIO**

Vesa Petri Norilo  
DocMus, University of the Arts, Helsinki, Finland

## **COMPOSING AND EXECUTING INTERACTIVE MUSIC USING THE HIPHOP.JS LANGUAGE**

Bertrand Petit  
INDES, INRIA, Sophia-Antipolis, France

Manuel Serrano  
Inria, Sophia Antipolis, France

## **T-VOKS: CONTROLLING SINGING AND SPEAKING SYNTHESIS WITH THE THEREMIN**

Xiao Xiao  
MIT Media Lab, Cambridge, Massachusetts, United States Institut Jean Le Rond d'Alembert, Paris, France

Grégoire Locqueville  
Institut Jean Le Rond d'Alembert, Paris, France

Christophe d'Alessandro  
Institut Jean Le Rond D'Alembert, CNRS Sorbonne Université, Paris, France

Boris Doval  
Institut Jean Le Rond d'Alembert, Paris, France

## **A COMPARISON OF OPEN-SOURCE LINUX FRAMEWORKS FOR AN AUGMENTED MUSICAL INSTRUMENT IMPLEMENTATION**

Eduardo Meneses  
IDMIL, McGill University, Montreal, Quebec, Canada CIRMMT, McGill University, Montreal, Quebec, Canada

Johnty Wang  
Input Devices and Music Interaction Laboratory, McGill University, Montreal, Quebec, Canada CIRMMT, McGill University, Montreal, Quebec, Canada

Sergio Freire  
School of Music - CEGeME, Universidade Federal de Minas Gerais (UFMG), Belo Horizonte, Minas Gerais, Brazil

Marcelo Wanderley  
Music Technology, Schulich School of Music, McGill University, Montreal, Quebec, Canada

**VRENGT: A SHARED BODY-MACHINE INSTRUMENT FOR MUSIC-DANCE PERFORMANCE**

Cagri Erdem	RITMO Centre for Interdisciplinary Studies in Rhythm, Time and Motion, University of Oslo, Oslo, Norway
Katja Henriksen Schia	Norwegian Contemporary Dance Company
Alexander Refsum Jensenius	RITMO Centre for Interdisciplinary Studies in Rhythm, Time and Motion, University of Oslo, Oslo, Norway

**THE RECIPROCITY BETWEEN ANCILLARY GESTURE AND MUSIC STRUCTURE PERFORMED BY EXPERT MUSICIANS**

Thais Fernandes Santos	Federal University of Rio Grande do Sul, Porto Alegre, Brazil
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**SOMACOUSTICS: INTERACTIVE BODY-AS-INSTRUMENT**

Maros Suran Bomba	Aalborg University, Aalborg, Denmark
Palle Dahlstedt	Dept. of Communication, Aalborg University, Aalborg, Denmark Dept. of Computer Science and Engineering, University of Gothenburg, Gothenburg, Sweden

**AMBULATION: EXPLORING LISTENING TECHNOLOGIES FOR AN EXTENDED SOUND WALKING PRACTICE**

Tim Shaw	Culture Lab, Newcastle University, Newcastle, United Kingdom
John Bowers	Newcastle University, Newcastle upon Tyne, United Kingdom

**DESIGNING GESTURES FOR CONTINUOUS SONIC INTERACTION**

Atau Tanaka	EAVI, Goldsmiths, University of London, London, United Kingdom
Balandino Di Donato	Embodied Audiovisual Interaction Unit, Computing Department, Goldsmith, University of London, London, England, United Kingdom
Michael Zbyszynski	Goldsmiths University of London, London, United Kingdom
Geert Roks	

**IMPROVISING A LIVE SCORE TO AN INTERACTIVE BRAIN-CONTROLLED FILM**

Richard Ramchurn	Mixed Reality Lab, The University of Nottingham, Nottingham, United Kingdom
Juan Pablo Martinez Avila	Mixed Reality Laboratory, The University of Nottingham, Nottingham, United Kingdom
Sarah Martindale	Horizon Digital Economy Research, University of Nottingham, Nottingham, United Kingdom
Alan Chamberlain	Mixed Reality Lab, University of Nottingham, Nottingham, United Kingdom
Max L Wilson	School of Computer Science, University of Nottingham, Nottingham, United Kingdom
Steve Benford	University of Nottingham, Nottingham, United Kingdom

**PERSPECTIVES ON TIME: PERFORMANCE PRACTICE, MAPPING STRATEGIES, & COMPOSITION WITH MIGSI**

Sarah Reid	California Institute of the Arts, Santa Clarita, California, United States
Ryan Gaston	California Institute of the Arts, Valencia, California, United States
Ajay Kapur	California Institute of the Arts, Valencia, California, United States

**FROM MONDRIAN TO MODULAR SYNTH: RENDERING NIME USING GENERATIVE ADVERSARIAL NETWORKS**

Akito Van Troyer	Opera Of The Future, MIT Media Lab, Cambridge, Massachusetts, United States Electronic Production and Design, Berklee College of Music, Boston, Massachusetts, United States
Rebecca Kleinberger	Media Lab, MIT, Cambridge, Massachusetts, United States

**AUTOMATIC RECOGNITION OF SOUNDPAINTING FOR THE GENERATION OF ELECTRONIC MUSIC SOUNDS**

David Antonio Gómez	Jáuregui Estia-Recherche, ESTIA, Bidart, France
Irvin Dongo	Informatique, École Supérieure Des Technologies Industrielles Avancées, Bidart, Aquitaine, France
Nadine Couture	Estia-Recherche & LaBRI, ESTIA, Bidart, Pays Basque, France

Artificial Intelligence & Machine Learning

**Room 309**  
**Thursday, 6<sup>th</sup> June 2019**  
**At 14:30**

**GENERATING CONVINCING HARMONY PARTS WITH BLSTM NETWORK**

Andrei Faitas	Department of Informatics, University of Oslo, Oslo, Norway
Synne Engdahl Baumann	Department of Informatics, University of Oslo, Oslo, Norway
Torgrim Rudland Næss	University of Oslo, Oslo, Norway
Jim Torresen	Department of Informatics, University of Oslo, Oslo, Norway
Charles Patrick Martin	Department of Informatics, University of Oslo, Oslo, Norway

**AN INTERACTIVE MUSICAL PREDICTION SYSTEM WITH MIXTURE DENSITY RECURRENT NEURAL NETWORKS**

Charles Patrick Martin	Department of Informatics, University of Oslo, Oslo, Norway
Jim Torresen	Department of Informatics, University of Oslo, Oslo, Norway RITMO Centre for Interdisciplinary Studies in Rhythm, Time, and Motion, University of Oslo, Oslo, Norway

**AUGMENTING PARAMETRIC SYNTHESIS WITH LEARNED TIMBRAL CONTROLLERS**

Jeff Gregorio	ExCITe Center, Drexel University, Philadelphia, Pennsylvania, United States
Youngmoo Kim	ExCITe Center, Drexel University, Philadelphia, Pennsylvania, United States

**SMALL DYNAMIC NEURAL NETWORKS FOR GESTURE CLASSIFICATION WITH THE RULERS (A DIGITAL MUSICAL INSTRUMENT)**

Vanessa Yaremchuk	McGill University, Montreal, Quebec, Canada
Carolina Brum Medeiros	McGill University, Montreal, Quebec, Canada
Marcelo Wanderley	Music Technology, Schulich School of Music, McGill University, Montreal, Quebec, Canada

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## POSTERS

Room 311  
Porto Alegre, 4<sup>th</sup> June 2019  
Poster Session: 1 & 2

### **STELLAR COMMAND: A PLANETARIUM BASED COSMIC PERFORMANCE INTERFACE**

Angelo Fraietta  
UNSW Art and Design, University of NSW, Paddington, New South Wales, Australia

### **COMPOSING UNDERSTANDINGS: MUSIC, MOTION, GESTURE AND EMBODIED COGNITION**

Guilherme Bertissolo  
UFBA, Salvador/BA, Brazil

### **THE HALF-PHYSLER: AN OSCILLATING REAL-TIME INTERFACE TO A TUBE RESONATOR MODEL**

Alex Hofmann  
Dept. of Music Acoustics, University of Music and Performing Arts Vienna; Austrian Academy of Sciences, Vienna, Austria

Vasileios Chatziioannou  
Department of Music Acoustics, University of Music and Performing Arts Vienna, Vienna, Austria

Sebastian Schmutzhard  
Acoustics Research Institute, Austrian Academy of Sciences, Vienna, Austria

Gökberk Erdogan  
Electrical&Electronics Engineering, Bogazici University, Istanbul, Turkey

Alexander Mayer  
Department of Music Acoustics – Wiener Klangstil, University of Music and Performing Arts Vienna, Vienna, Austria

### **SIBILIM: A LOW-COST CUSTOMIZABLE WIRELESS MUSICAL INTERFACE**

Helena de Souza Nunes  
Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil

Federico Visi  
www.federicovisi.com, Berlin, Germany

Lydia Wohl Helena Coelho  
Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil

Rodrigo Schramm  
Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil

### **TAPTAP, ARMTOP, BLOWTOP: EVOLVING THE PHYSICAL LAPTOP INSTRUMENT**

Doga Cavdir  
Center for Computer Research in Music and Acoustics (CCRMA), Stanford University, Stanford, California, United States

Juan Sierra  
CCRMA, Stanford University, Stanford, California, United States

Ge Wang  
CCRMA, Stanford University, Stanford, California, United States

### **WHERE IS THE QUIET: IMMERSIVE EXPERIENCE DESIGN USING THE BRAIN, MECHATRONICS, AND MACHINE LEARNING**

McLean J Macionis  
California Institute of the Arts, Valencia, California, United States

Ajay Kapur  
California Institute of the Arts, Valencia, California, United States

### **TOWARDS THE CONCEPT OF DIGITAL DANCE AND MUSIC INSTRUMENTS**

João Nogueira Tragtenberg  
Creativity and Innovation for Music Manufacturing, SENAI Innovation Institute for ICT, Recife, PE, Brazil

Filipe Calegario	Creativity and Innovation for Music Manufacturing, SENAI Innovation Institute for ICT, Recife, PE, Brazil
Giordano Cabral	Centro de Informática, Universidade Federal de Pernambuco, Recife, Pernambuco, Brazil
Geber L. Ramalho	Centro de Informática, Universidade Federal de Pernambuco, Recife, Pernambuco, Brazil

### **PICO: A PORTABLE AUDIO EFFECT BOX FOR TRADITIONAL PLUCKED-STRING INSTRUMENTS**

Julian Jaramillo	Escola de Comunicações e Artes, Universidade de São Paulo, São Paulo, Brazil
Fernando Iazzetta	Escola de Comunicações e Artes, Universidade de São Paulo, São Paulo, SP, Brazil

### **THE WORLDWIDE WEB IN AN ANALOG PATCHBAY**

Don Derek Haddad	Responsive Environments, Media Lab, MIT, Cambridge, Massachusetts, United States
Joe Paradiso	Responsive Environments, MIT Media Lab, Cambridge, Massachusetts, United States

### **A PHYSICAL INTELLIGENT INSTRUMENT USING RECURRENT NEURAL NETWORKS**

Torgrim Rudland Næss	University of Oslo, Oslo, Norway
Charles Patrick Martin	Department of Informatics, University of Oslo, Oslo, Norway

### **EXPRESSIVE POTENTIALS OF MOTION CAPTURE IN MUSICAL PERFORMANCE**

Nicolas Bazoge	University of Rennes 2, Rennes, France
Bruno Bossis	EA Arts: Pratiques et Poétiques, Université Rennes 2, Rennes, France
Ronan Gaugne	Universidad Rennes, Inria, CNRS, IRISA, Rennes, France

### **A BASSLINE GENERATION SYSTEM BASED ON SEQUENCE-TO-SEQUENCE LEARNING**

Behzad Haki	Music Technology Group, Universitat Pompeu Fabra, Barcelona, Barcelona, Spain
Sergi Jorda	Music Technology Group, Universitat Pompeu Fabra, Barcelona, Barcelona, Spain

### **A MIDI CONTROLLER MAPPER FOR THE BUILT-IN AUDIO MIXER IN UNITY GAME ENGINE**

Pedro Pablo Lucas	Independent Researcher, Guayaquil, Ecuador
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**Room 311**  
**Porto Alegre, 5<sup>th</sup> June 2019**  
**Poster Session: 3 & 4**

### **BORDER: A LIVE PERFORMANCE BASED ON WEB AR AND A GESTURE CONTROLLED INSTRUMENT**

Kiyu Nishida	Karlsruhe University of Arts and Design, Karlsruhe, Germany School of Design, Kyushu University, Fukuoka, Japan
Akishige Yuguchi	Graduate School of Information Science, Nara Institute of Science and Technology, Nara, Japan
Kazuhiro Jo	Faculty of Design, Kyushu University, Fukuoka, Japan YCAM, Yamaguchi, Japan
Paul Modler	Karlsruhe University of Arts and Design, Karlsruhe, Germany School of Design, Kyushu University, Fukuoka, Japan
Markus Noisternig	IRCAM, CNRS, Sorbonne University, Paris, France



### **INSPECTING AND INTERACTING WITH MEANINGFUL MUSIC REPRESENTATIONS USING VAE**

Ruihan Yang	New York University, Shanghai, China
Tianyao Chen	New York University, New York, New York, United States
Yiyi Zhang	New York University, New York, New York, United States
Gus Xia	New York University, Shanghai, China

### **EL MAPA NO ES EL TERRITORIO: SENSOR MAPPING FOR AUDIOVISUAL PERFORMANCES**

Fabian Sguiglia	CONICET, Buenos Aires, Argentina Escuela de Artes, Universidad Nacional de Quilmes, Bernal, Buenos Aires, Argentina
Pauli Coton	Universidad de las Artes, Buenos Aires, Argentina
Fernando Toth	Universidad de Buenos Aires, Buenos Aires, Argentina

### **CORETET: A VIRTUAL REALITY STRING QUARTET FOR THE 21ST CENTURY**

Rob Hamilton	Department of Arts, Rensselaer Polytechnic Institute, Troy, New York, United States
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### **PARAMETERIZED MELODY GENERATION WITH AUTOENCODERS AND TEMPORALLY-CONSISTENT NOISE**

Aline Weber	Institute of Informatics, Federal University of Rio Grande do Sul, Porto Alegre, RS, Brazil
Lucas Nunes Alegre	Institute of Informatics, Federal University of Rio Grande do Sul, Porto Alegre, Rio Grande do Sul, Brazil
Jim Torresen	Department of Informatics, University of Oslo, Oslo, Norway
Bruno C. da Silva	Institute of Informatics, Federal University of Rio Grande do Sul, Porto Alegre, RS, Brazil

### **SEARCHING FOR THE PERFECT INSTRUMENT: INCREASED IMMERSION THROUGH INTERACTIVE EVOLUTIONARY INSTRUMENT DESIGN**

Dhruv Chauhan	University of Bristol, Bristol, United Kingdom
Peter Bennett	University of Bristol, Bristol, United Kingdom

### **CD-SYNTH: A ROTATING, UNTETHERED, DIGITAL SYNTHESIZER**

Patrick Chwalek	Media Lab, MIT, Cambridge, Massachusetts, United States
Joe Paradiso	Media Lab, MIT, Cambridge, Massachusetts, United States

### **ENHANCING THE EXPRESSIVITY OF THE SENSEL MORPH VIA AUDIO-RATE SENSING**

Razvan Paisa	Aalborg University, Copenhagen, Denmark
Dan Overholt	Sound and Music Computing, Aalborg University, Copenhagen, Denmark

### **INTRODUCING LOCUS: A NIME FOR IMMERSIVE EXOCENTRIC AURAL ENVIRONMENTS**

Disha Sardana	Human Centered Design, Virginia Tech, Blacksburg, Virginia, United States
Woohun Joo	Human Centered Design, Virginia Tech, Blacksburg, Virginia, United States
Ivica Ico Bukvic	SOPA, DISIS, ICAT, Virginia Tech, Blacksburg, Virginia, United States
Greg Earle	ECE Dept., Virginia Tech, Blacksburg, Virginia, United States

### **MESH GARDEN: A CREATIVE-BASED MUSICAL GAME FOR PARTICIPATORY MUSICAL PERFORMANCE**

Tate Carson

Experimental Music & Digital Media, Louisiana State University,  
Baton Rouge, Louisiana, United States

### **ADAPTIVE MAPPING OF SOUND COLLECTIONS FOR DATA-DRIVEN MUSICAL INTERFACES**

Gerard Roma

CeReNeM, University of Huddersfield, Huddersfield, UK

Owen Green

CeReNeM, University of Huddersfield, Huddersfield, UK

Pierre Alexandre Tremblay

CeReNeM, University of Huddersfield, Huddersfield, UK

### **NETWORKED HEAD-MOUNTED DISPLAYS FOR ANIMATED NOTATION AND AUDIO-SCORES WITH SMARTVOX**

Jonathan Bell

PRISM, Aix-Marseille University, Marseille, PACA, France

### **REACH: A KEYBOARD-BASED GESTURE RECOGNITION SYSTEM FOR LIVE PIANO SOUND MODULATION**

Niccolò Granieri

Integra Lab, Royal Birmingham Conservatoire, Birmingham City  
University, Birmingham, West Midlands, United Kingdom

James Dooley

Integra Lab, Royal Birmingham Conservatoire, Birmingham City  
University, Birmingham, United Kingdom

### **HA DOU KEN MUSIC: DIFFERENT MAPPINGS TO PLAY MUSIC WITH JOYSTICKS**

Gabriel Lopes Rocha

Computer Science Department, Federal University of São João del-  
Rei, São João del-Rei, Minas Gerais, Brazil

João Teixeira Araújo

Computer Science Department, Federal University of São João del-  
Rei, São João del-Rei, Minas Gerais, Brazil

Flávio Luiz Schiavoni

Computer Science Department, Federal University of São João del-  
Rei, São João del-Rei, Minas Gerais, Brazil

**Room 311**

**Porto Alegre, 6<sup>th</sup> June 2019**

**Poster Session: 5 & 6**

### **INTIMAL: WALKING TO FIND PLACE, BREATHING TO FEEL PRESENCE**

Ximena Alarcon Diaz

RITMO Centre for Interdisciplinary Research in Rhythm, Time  
and Motion - Dep. of Musicology, University of Oslo, Oslo,  
Norway

Victor Evaristo Gonzalez Sanchez

RITMO Centre for Interdisciplinary Studies in Rhythm, Time and  
Motion, University of Oslo, Oslo, Norway

Cagri Erdem

RITMO Centre for Interdisciplinary Studies in Rhythm, Time and  
Motion, University of Oslo, Oslo, Norway

### **THE SCALE NAVIGATOR: A SYSTEM FOR NETWORKED ALGORITHMIC HARMONY**

Nathan Turczan

MTIID, California Institute of the Arts, Valencia, California,  
United States

Ajay Kapur

California Institute of the Arts, Valencia, California, United States

### **HMUSIC: A DOMAIN SPECIFIC LANGUAGE FOR MUSIC PROGRAMMING AND LIVE CODING**

Andre Rauber Du Bois

Universidade Federal de Pelotas, Pelotas, RS, Brazil

Rodrigo Geraldo Ribeiro

Departament of Computer Science, Universidade Federal de Ouro  
Preto, Ouro Preto, Minas Gerais, Brazil

### **HYPESAX: SAXOPHONE ACOUSTIC AUGMENTATION**

Cristopher Ramos Flores	New Zealand School of Music, Victoria University of Wellington, Wellington, New Zealand
Jim Murphy	New Zealand School of Music, Victoria University of Wellington, Wellington, New Zealand
Michael Norris	New Zealand School of Music, Victoria University of Wellington, Wellington, New Zealand

### **ABDUCTION, DIAGRAMS AND ALGORITHMS FOR INTERACTION WITH LIVE-ELECTRONICS**

Daniel F. Puig	Universidade Federal do Sul da Bahia, UFSB, Itabuna, Bahia, Brazil
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### **'BLENDING DIMENSIONS' WHEN COMPOSING FOR DMI AND SYMPHONIC ORCHESTRA**

Oliver Hödl	Faculty of Informatics, Cooperative Systems Research Group, University of Vienna, Vienna, Austria
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### **ESMERIL - A INTERACTIVE AUDIO PLAYER AND COMPOSITION SYSTEM FOR COLLABORATIVE EXPERIMENTAL MUSIC NETLABELS**

Cristiano Figueiró	IHAC, UFBA, Salvador, Bahia, Brazil
Guilherme Soares	CECULT, UFRB, Santo Amaro, Bahia, Brazil
Bruno Rohde	Universidade Federal da Bahia, Salvador, Bahia, Brazil

### **COMPOSING IN SPACE-TIME WITH RAINBOWS: A FRAMEWORK FOR SPATIAL META-COMPOSITION**

Robert S Jarvis	Exertion Games Lab, RMIT, Melbourne, VIC, Australia
Florian Floyd Mueller	Exertion Games Lab, RMIT University, Melbourne, VIC, Australia
Darrin Sean Verhagen	Digital Media/School of Design/Audiokinetic Experiments lab, RMIT University, Melbourne, VIC, Australia

### **TECHNOLOGICAL INTERFACES APPLIED IN DANCE PERFORMANCE TO CREATE MUSIC AND GARMENT MOVEMENTS**

Natacha Lamounier	Federal University of Minas Gerais, Belo Horizonte, Brazil
Luiz Naveda	Post Graduate Program in Arts, State University of Minas Gerais, Belo Horizonte, Minas Gerais, Brazil
Adriana Bicalho	Federal University of Minas Gerais, Belo Horizonte, Brazil

### **OTOKIN: MAPPING FOR SOUNDSPACE EXPLORATION THROUGH DANCE IMPROVISATION**

Palle Dahlstedt	Dept. of Computer Science and Engineering, University of Gothenburg, Gothenburg, Sweden Dept. of Communication, Aalborg University, Aalborg, Denmark
Ami Skånberg Dahlstedt	Dept. of Drama, Theatre & Dance, Royal Holloway University of London, London, United Kingdom Academy of Music and Drama, University of Gothenburg, Gothenburg, Sweden

### **SHOW THEM MY SCREEN: MIRRORING A LAPTOP SCREEN AS AN EXPRESSIVE AND COMMUNICATIVE MEANS IN COMPUTER MUSIC**

Sang Won Lee	Computer Science, Virginia Tech, Blacksburg, Virginia, United States
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### **TOWARDS A TELEMATIC DIMENSION SPACE**

Patrick Müller	Institute for Computer Music and Sound Technology, Zurich University of the Arts, Zurich, Switzerland
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### **EOLOS: A WIRELESS MIDI WIND CONTROLLER**

Juan Mariano Ramos	CONICET, CABA, Argentina Escuela Universitaria de Artes, Universidad Nacional de Quilmes, Bernal, Argentina
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**CREATING ORDER AND PROGRESS**

Angelo Fraietta

UNSW Art and Design, University of NSW,  
Paddington, New South Wales, Australia