xCoAx 2016

4th Conference on Computation, Communication, Aesthetics & X

xCoAx: Proceedings of the Conference on Computation, Communication, Aesthetics and X.

xCoAx 2016, Bergamo

Edited by
Mario Verdicchio
Alison Clifford
André Rangel
Miguel Carvalhais

Published by
Universidade do Porto
Praça Gomes Teixeira
4099-002 Porto
Portugal

Organizing Committee
Alison Clifford
André Rangel
Graeme Truslove
Jason Reizner
Mario Verdicchio
Miguel Carvalhais
Pedro Tudela

Exhibition Setup
Luís Nunes

Light Design
André Rangel

Design
Maria Fernandes
Miguel Carvalhais
Ana Miguel Reis

Webdesign
Ana Ferreira
Miguel Carvalhais

Photography
Pedro Tudela
Andreas Zingerle
Linda Kronman

Volunteers
Aldebaran Pepe
Carlotta Maironi Da Ponte Nina Micleusanu

Panel Moderators
Alison Clifford
André Rangel
Graeme Truslove
Jason Reizner
Luísa Ribas
Mario Verdicchio
Miguel Carvalhais

ISBN 978-989-746-094-4
ISSN 2183-9069

October 2016

Special Thanks
Frieder Nake

Supporters and Sponsors
Università degli Studi di Bergamo

Faculty of Fine Arts, University of Porto

University of the West of Scotland

Bauhaus-Universität Weimar

Rectory of the University of Porto

ID+

CITAR

Fundação para a Ciência e Tecnologia

GAMeC Bergamo

DST

CONTENTS

9 – 10 **FOREWORD**

12 – 27 **KEYNOTE**

PAPERS

29 – 42 **Hanns Holger Rutz**
Marking a space of algorithmicity

43 – 51 **Ricardo Melo and Miguel Carvalhais**
Defamiliarisation towards divergency

52 – 64 **Sara Orsi, Luísa Ribas, José Gomes Pinto**
From the archive to the new

65 – 74 **Rodrigo Hernández-Ramírez**
Artworks as informational systems

75 – 84 **Anna Daudrich**
Human vs. machine: algorithmic methods in the realm of artistic production

85 – 98 **Agustina Andreoletti and Alice Rzezonka**
Material flux: revealing the potential of processuality

99 – 111 **Marc Böhlen**
Watson gets personal: notes on ubiquitous psychometrics

112 – 121 **Romi Mikulinsky and Yanai Toister**
Shapes, numbers and algorithms: the conditions for abstract art today

122 – 137 **Natalie Hube, Hannes Grusla, Mathias Müller, Ingmar S. Franke, Tobias Günther and Rainer Groh**
Virtual *unreal*ity: exploring alternative visualization techniques for virtual reality

138 – 159 **Pedro Cardoso and Miguel Carvalhais**
Playing in 7D: an action-oriented framework for video games (a summary)

160 – 175 **Daniele Savasta**
Collocated gaming: analysis of social relations in gaming through interaction ecologies

176 – 186 **Susana Sanches and Luísa Ribas**
Procedurality and performativity: concepts and practices

187 – 200 **Eleonora Oreggia and Graham White**
Because there was no user in art: imagining a technological sublime

201 – 210 **Christian Faubel**
Machine-machine communication without hierarchies and protocol

211 – 223 **Catarina Lee and Luísa Ribas**
Exploring textual data: transmutability as a creative concept and practice

224 – 233 **Anne Balsamo, Dale MacDonald and Jon Winet**
AIDS Quilt Touch: the design of an interactive digital memorial

234 – 246 **Andreas Zingerle**
Trust us and our business expands! How net-activists take down fraudulent business websites

247 – 260 **Christopher Wood, Stefan Poslad, Jennifer Gabrys and Antonios Kaniadakis**
Dial stories: the hybridisation of site using radio as locative technology

261 – 269 **Alessandro Ludovico**
The touching charm of print

270 – 278 **Daniil Umanski and Michal Rinott**
The drawbox project

279 – 292 **Caterina Antonopoulou, Rodrigo Carvalho and Javier Chàvarri**
Prefalll135. An interactive tangible installation for audiovisual composition

293 – 307 **Francisca R. Gonçalves, Eduardo Magalhães, José A. Gomes and Rui Penha**
Acousmatic Park: a path toward aural awareness

308 – 318 **Quelic Berga, Julià Minguillón, Pau David Alsina, Javier Melenchón, and Laia Blasco-Soplon**
Case study of a generative editing audiovisual project

EXHIBITION

320 – 327 **Jing Zhou**
Living Mandala: the cosmic of being

328 **Roberto Zanata**
Nero Ipogeo

329 – 332 **Andreas Zingerle and Linda Kronman**
The ‘Megacorp.’ business conglomerate —
How Net-activists take down fake business websites

333 – 340 **Hector Rodriguez**
Theorem 8.1

341 – 348 **Sam Tarakajian, Cassie Tarakajian and Ana Giraldo-Wingler**
Wikisonnet Procedural Poem Generator

349 – 352 **Brad Tober**
Design by tweet: processing-inspired collaborative creative coding via Twitter

353 **Alexander Rechberg, David Murmann, Michael König, Adrian Rennertz and Daniel J. Becker**
LASACT

354 – 359 **Andrés Villa Torres and Eugen Danzinger**
NarcissUs: machine learning from machine learning from machine learning from machine

360 – 361 **Alison Clifford and Graeme Truslove**
Nightfields

362 **Ivo Teixeira, Rodrigo Carvalho, Tiago Gama Rocha and Francisca R. Gonçalves**
DRIPPIGMENT

363 – 368 **Małgorzata Dancewicz**
Beyond liveness

369 – 373 **Marta Pérez Campos**
BullShut App: a social interface to avoid small-talk

374 – 376 **Daniele Savasta**
*Wi*Pong: a massive multiplayer collocated game

377 – 378 **Anna Terzaroli**
Dark Path #2

379 – 383 **Ivan Vuksanov**
Tweeting Antennas: (un)dead media in the urban landscape

384 – 386 **Nicole Koltick**
NESL

387 – 389 **Gordan Kreković and Antonio Pošćić**
Click Click Sale

390 – 391 **Walter Langelaar**
SSID_Exquis

PERFORMANCES

393 – 397 **Jung In Jung**
Pen-y-Pass: devising choreography with physical imagery

398 – 401 **Alice Eldridge and Chris Kiefer**
Continua: a resonator-feedback-cello duet for live coder and cellist

402 **Vilbjørg Broch**
Seven Sphere Journey

403 **Ivo Teixeira, Francisca R. Gonçalves, Daniel Correia and Rodrigo Carvalho**
KOBAYASHI 2001

404 – 408 **Hanns Holger Rutz and David Pirrò**
Anemone Actiniaria

409 **Ricardo Climent**
s.laag: for Bass Clarinet and Game-Audio

SCIENTIFIC COMMITTEE

Alessandro Ludovico
Winchester School of Art, University of Southampton / Neural

Alex McLean
Interdisciplinary Center for Scientific Research in Music, University of Leeds

Alice Eldridge
University of Sussex

Alison Clifford
University of the West of Scotland

Álvaro Barbosa
University of Saint Joseph, Macao

André Rangel
CITAR

Andreas Muxel
Köln International School of Design, University of Applied Sciences Cologne

Andreas Zingerle
University of Art and Design, Linz

Arne Eigenfeldt
Simon Fraser University

Carlos Guedes
New York University Abu Dhabi

Christian Faubel
Academy of Media Arts Cologne

Cristina Sá
CITAR / School of the Arts, Portuguese Catholic University in Porto

Daniel Schorno
STEIM

Diemo Schwarz
IRCAM

Francesca Pasquali
University of Bergamo

Francisco Cardoso Lima
Independent Artist, Aveiro

Graeme Truslove
University of the West of Scotland

Heitor Alvelos
ID+ / Faculty of Fine Arts, University of Porto

João Cordeiro
CITAR, University of Saint Joseph, Macao

Jason Reizner
Bauhaus-Universität Weimar

Jon McCormack
Monash University

Ken Neil
The Glasgow School of Art

Linda Kronman
Danube University Krems

Luís Gustavo Martins
CITAR / Portuguese Catholic University

Luísa Ribas
ID+ / Faculty of Fine Arts, University of Lisbon

Manuela Naveau
Ars Electronica

Mario Verdicchio
University of Bergamo

Martin Kaltenbrunner
Kunstuniversität Linz

Miguel Carvalhais
ID+ / Faculty of Fine Arts,
University of Porto

Miguel Leal
i2ADS / Faculty of Fine Arts,
University of Porto

Mitchell Whitelaw
Faculty of Arts and Design,
University of Canberra

Nathan Wolek
Stetson University

Pablo Garcia
School of the Art Institute of Chicago

Paulo Ferreira Lopes
Portuguese Catholic University,
School of Arts

Pedro Cardoso
ID+ / Faculty of Fine Arts,
University of Porto

Pedro Tudela
i2ADS / Faculty of Fine Arts,
University of Porto

Penousal Machado
University of Coimbra

Philip Galanter
Texas A&M University

Roxanne Leitão
The Cultural Communication and
Computing Research Institute, Sheffield
Hallam University

Rui Torres
Faculty of Human and Social Sciences,
University Fernando Pessoa, Porto

Simone Ashby
m-iti — Madeira Interactive
Technologies Institute

Tim Boykett
Time's Up

Titus von der Malsburg
University of California, San Diego

Thor Magnusson
University of Sussex / ixi audio

Valentina Nisi
University of Madeira

ORGANIZING COMMITTEE

Alison Clifford
University of the West of Scotland

André Rangel
CITAR

Graeme Truslove
University of the West of Scotland

Jason Reizner
Bauhaus-Universität Weimar

Mario Verdicchio
University of Bergamo
(Conference Chair)

Miguel Carvalhais
ID+ / Faculty of Fine Arts,
University of Porto

Pedro Tudela
i2ADS / Faculty of Fine Arts,
University of Porto