ArtsIT2014 program

Brooks, Anthony Lewis

Published in:
4th International Conference on Arts and Technology

Publication date:
2014

Document Version
Publisher's PDF, also known as Version of record

Link to publication from Aalborg University

Citation for published version (APA):
4th International Conference on Arts & Technology
Steering Committee

Anthony Lewis Brooks, PhD
Associate Professor, Department of Architecture, Design and Media Technology, School of ICT, Aalborg University Esbjerg.

Selim Balcısoy, PhD
Associate Professor, Computer Engineering Program, Faculty of Engineering and Natural Sciences, Sabancı University, Istanbul, Turkey

Organizing Committee

Anthony Lewis Brooks, PhD
Associate Professor, Department of Architecture, Design and Media Technology, School of ICT, Aalborg University Esbjerg.

Elif Ayiter, PhD
Visual Arts and Visual Communication Design Program, Faculty of Arts and Social Sciences, Sabancı University, Istanbul, Turkey.

Onur Yazıcıgil, MFA
Visual Arts and Visual Communication Design Program, Faculty of Arts and Social Sciences, Sabancı University, Istanbul, Turkey.

Ekmetal Ertan
Director of Amber Electronic Arts Festival, Istanbul, Turkey.

Technical Committee

David Brown
Kristoffer Jensen
Prof. Rolf Gehlhaar
Calì Fidopiastis
Cecilia Lanyi
Daniel Thalmann
Scott Palmer
Rikke Ørngreen
Cumhur Erkut

Chris Abbott
Lieselotte Van Leeuwen
Steven Gelineck
Hirokazu Kato
Eva Petersson
Mark Billinghurst
Mel Krokos
Georgios Triantafylidis
Elizabeth Stokes

Antoni JaumeiCapó
Michel Guglielmi
Line Gad Christiansen
Lars Ole Bonde
Sanne Krogh Groth
Mark Grimshaw
Ceri Williams
Ana Isabel Mota
Welcome Note
ArtsIT 2014 Program
Speakers & Abstracts
Amber Festival Program
Sponsors
Colophon
Dear all,

It is with great honour that I welcome you all on behalf of the ArtsIT steering committee to Istanbul and the fourth ArtsIT international conference.

This event has been realised thanks to many months of preparations and hard work, both locally and internationally, and the steering committee is indebted to all involved. So, to those both in front and behind the scenes of ArtsIT2014, please accept our gratitude and acknowledgement for the time and effort in volunteering to make this event happen—THANK YOU!

The steering committee also sends its thanks to you, the delegates and students attending ArtsIT. Together these days, you will experience selected works of researchers, artists, designers and industry members whose ideas and creative outputs will help shape the future of art and technology. It’s expected that attendees should gain insights into novel innovative technologies and trans-disciplinary activities that are making strong impacts both on the world of the arts and on society at large. Experiences embedded from these days are anticipated to influence and motivate attendees’ future contribution to their relevant and diverse fields such that a desire to return to showcase your own work is evoked. We thank you for understanding the potentials from attending ArtsIT events.

At this point, I insert a personal note. When visiting to work with the local team is setting up this event, during my days as tourist, I became aware of the richness of Ottoman art, both the architecture and the text-based images in languages I did not understand. The aesthetics drew me in: I was fascinated.

It was an art seeped in history with clear influences of Hittites, Ancient Greeks, Islamic, Persian and Byzantines. I also experienced ceramic mosaics, coloured tiles in palaces, mosques and türbe mausolea...

ArtsIT Steering Committee
Anthony Lewis Brooks
MONDAY | NOVEMBER 10

09:00  Registration
09:30  Welcome to ArtsIT 2014 in Istanbul by Elif Ayiter
09:45  ArtsIT 2014 Introduction by Anthony Lewis Brooks
10:30  Coffee Break
11:00  The Substance of the Body in the Societies of the Contemporary Arts by Emmanouela Vogiatzaki and Artur Krukowski
11:30  Google DevArt: Following the Success of Google’s Android Market in the Visual Arts? by JungHyun Anna Park, Sang-Yeal Han
12:00  Lunch break
14:00  Keynote talk: From Analog to Digital, Fictive vs. Documentary: An Ongoing Journey by Murat Germen
15:00  Coffee Break
15:30  Art Session: Begüm Bahçecik, Berkay Kaya, Deniz Cem Öndaygu, Doruk Türkmen, Mert Toka, Murat Durusoy, Osman Koç, Servet Ulaş, Sina Cem Çetin.

TUESDAY | NOVEMBER 11

09:00  Generation of Engineering Research Directions through Artistic Process by Marco Pinter, Angus Graeme Forbes, Danny Bazo, and George Legrady | SKYPE CONFERENCE
09:30  Virtual Idol Hatsune Miku: New Auratic Experience of the Performer as a Collaborative Platform by Jelena Guga
10:00  Traditional Painting Revised: The Ambient Intelligence Approach to Creativity by Nikolaos Partarakis, Margherita Antonia, Emmanouel Zidianakis, Panagiotis Koutlemanis and Constantine Stephanidis
10:30  Coffee break
11:00  When Technology Collaborates: Politics and the Aesthetic of “We” Human-and-Technology by Hyunkyoung Choi, Timothy W. Luke, and Joonsung Yoon
11:30  Poetry of Separation: The aesthetics of spatial montage and generative editing for multi-layered screens by Bahng So Jung, Yoo Doo Won, Hutchings Patrick, Shi Chung Kon, Wakefield Graham
12:00  Lunch break
14:00  Keynote talk: Notes Towards a History of Art, Code and Autonomy by Paul Brown
15:00  Coffee break
15:30  Technologies Expand Aesthetic Dimensions: Visualization and Sonification of Embodied Penwald Drawings by Myounghoon Jeon, Steven Landry, Joseph D. Ryan, and James W. Walker
16:00  Exploring Felt Qualities of Embodied Interaction with Movement and Sound by Cumhur Erkut, AnuRajala Erkut, Sofia Dahl
20:00  GALA DINNER SubHotel, Karaköy See the Event Booklet for Map
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td><strong>A Proposal for the Creation of a Dance Ontology</strong> by Annabel Clarance</td>
</tr>
<tr>
<td>09:30</td>
<td><strong>Interactive Internet theatre (Interactive multimedia solutions at the New Aleksandrinsky Theatre Stage)</strong> by Nikolay Borisov, Artem Smolin, Denis Stolyarov, Pavel Shcherbakov</td>
</tr>
<tr>
<td>10:00</td>
<td><strong>Design of a non-intrusive augmented trumpet</strong> by Claudia Rinaldi, Federica Battisti, Marco Carli, and Luigi Pomante</td>
</tr>
<tr>
<td>10:30</td>
<td><strong>Coffee Break</strong></td>
</tr>
<tr>
<td>11:00</td>
<td><strong>Digital Creativity: Children’s Playful Mastery of Technology</strong> by Eva Petersson Brooks, Anthony Lewis Brooks</td>
</tr>
<tr>
<td>11:30</td>
<td><strong>Authoring of digital games via card games: make playful play happen</strong> by Andrea Valente, Emanuela Marchetti</td>
</tr>
<tr>
<td>12:00</td>
<td><strong>Lunch break</strong></td>
</tr>
<tr>
<td>14:00</td>
<td><strong>Large-Scale Analysis of Art Proportions</strong> by Kristoffer Jensen</td>
</tr>
<tr>
<td>14:30</td>
<td><strong>Augmented Sculptures: What You See is not What You See</strong> by Selçuk Artut</td>
</tr>
<tr>
<td>15:00</td>
<td><strong>Coffee Break</strong></td>
</tr>
<tr>
<td>15:30</td>
<td><strong>Roundtable Discussion: ICTARTCONNECT.study @ ArtsIT:</strong> What is the outcome if work on novel ICT - Information and Communication Technologies - is linked with artistic expression? This is the question asked by the study 'ICT ART CONNECT' funded by the European Commission (DG CONNECT) and the question raised during the roundtable.</td>
</tr>
</tbody>
</table>
**KEYNOTE SPEAKER**

**Murat Germen**

Murat Germen is an artist using photography as a research tool. Has an MArch degree from M.I.T, where he went as a Fulbright scholar and received AIA Henry Adams Gold Medal for academic excellence. Works as a professor of art, photography, new media at Sabancı University, Istanbul. Has presented at conferences like SIGGRAPH, ISEA, Mutamorphosis, TSC, Cae, CAC2, EVA-London, eCAADe, ASCAAD. Has opened over seventy inter/national group/solo exhibitions. He is represented by C.A.M. Gallery (Turkey), ARTITLED! (Netherlands-Belgium), Rosier Gallery (USA). More than 300 editions of the artist’s artworks are in personal collections inter/nationally, in addition to a few that are in Istanbul Modern’s and Proj4L Elgiz Museum of Contemporary Art [Istanbul] collections.

**ABSTRACT**

**November 10, Monday, 14:00**

muratgermen.com

**From Analog to Digital, Fictive vs. Documentary: An Ongoing Journey**

This talk will focus upon a personal update of my sojourn as an artist/academician - a journey that has led me from the analog to the electronic medium spanning a timeline of 30 odd years. The exploration, still in progress, will start with city planning, architecture and photography where I acquired, and developed my analog skills. Following this, I will focus on my encounter with the digital revolution, right at a time when the foundations were being laid at one of the leading institutions of the world. I will then ponder on the possible common grounds between analog / digital also by bringing in notions such as serendipity, surprise, uncertainty, inadvertence. These will constitute the grounds upon which I base my artistic experiments and my academic research on various transformations in contemporary aesthetics. Since my main visualization area is photography; indispensable conceptual components such as representation, real, surreal, objectivity, subjectivity, construct will be mentioned and linked to an empirical process based practice.

In addition to investigations on possible relations between art and engineering, I will also reveal my cultural, social, political stance in the light of issues like local vs. global and rhizomatic vs. hierarchic. I will then conclude with my recent concentration on documentary work, after numerous fictive constructions in the digital realm. My objective is to emphasize participatory, collective culture and history making by taking advantage of the democratization brought by ubiquitous mobile imaging and social media communication.

---

**KEYNOTE SPEAKER**

**Paul Brown**

Paul Brown was a member of that group at the Slade School and is an artist and writer who has specialised in art, science & technology since the late-1960s and in computational & generative art since the mid 1970s. His early work included creating large-scale lighting works for musicians and performance group like Meredith Monk, Music Electronica Viva, Pink Floyd, etc... and he has an international exhibition record that includes the recreation of both permanent and temporary public artworks dating from the late 1960s. He has participated in shows at major venues like the TATE, Victoria & Albert and ICA in the UK; the Adelaide Festival; ARCO in Spain, the Substation in Singapore and the Venice Biennale and his work is represented in public, corporate and private collections in Australia, Asia, Europe, Russia and the USA. With Charlie Gere, Nick Lambert and Catherine Mason he was co-editor of _White Heat Cold Logic - British Computer Art 1960–1980_ (MIT Press, Leonardo Imprint, 2009). Since 2005 he has been honorary visiting professor and artist-in-residence at the Centre for Computational Neuroscience and Robotics, School of Engineering and Informatics at the University of Sussex.

**ABSTRACT**

**November 11, Tuesday, 14:00**

paul-brown.com

**Notes Towards a History of Art, Code and Autonomy**

The work of Paul Cezanne, Georges Seurat and their contemporaries had a profound influence on the art of the 20th century. Art as formal analysis of it’s own internal processes became a commonplace of several inter-related art movements that, in the 1960’s, overthrew the concept of art as object and replaced it with one of art as process. The systems and conceptual artistesembraced and developed these ideas and then, in the 1970’s, a new generation of artists began to encode these concepts using ‘formal linguistics made possible by the new science of computing’. Computer art, as such, was not new: by 1970 it was at least 20 years old and already in 1968 Jasia Reichardt, atLondon’s Institute of Contemporary Art (ICA), had curated a major historical survey of the field called _Cybernetic Serendipity_. But it was the young artists working at the Slade School of Art’s postgraduate Experimental and Computing Department from 1974 to 82 who were specifically applying these ideas from both systems and conceptual art within the context ofthe emergent computational domain.
The Substance of the Body in the Societies of the Contemporary Arts

Emmanouela Vogiatzaki
Open University of Cyprus, Department of Theatre Studies, Cyprus
Artur Krukowski
Intracom S. A. Telecom Solutions, R&D Unit 2, Greece

This paper observes the substance of the body in the Performance Art. By taking into account that the Art reflects social, cultural and sometimes political realities, we attempt to trace what kind of messages an artwork with advanced technological means transmits to us, the spectators or artists. This study concentrates on the Cyborg Theatre, in which the technology is a very important element in order for a performance to be staged. It is a technological performance, which cannot occur without the presence of a body. Here we refer to a cyborg body as an extended human organism, a cyborg being with mechanical parts, which integrates non organic means in order to obtain substance inside the artwork. Focusing at this kind of theatrical performance, we observe the relationship that develops between the performer and the spectator. It is an unusual interaction between those two parties, which deserves our attention. We claim that both the performer and the spectator take part in a social event that not only transmits societal realities, but also indicates future ones.

**KEYWORDS** Technology | Performance Art | Body | Society | Cyborg Theatre

Google DevArt: Following the Success of Google's Android Market in the Visual Arts?

JungHyun Anna Park | Sang-Yeal Han
Graduate School of Innovation and Technology Management, Korea

This paper describes the creation of SwarmVision, a system of autonomous robotic cameras that functions both as the basis for an art installation and as an instrument for generating novel engineering research. Through a series of interviews with engineers who examined the project, we illustrate how experimentation with the instrument could lead to potential new research directions in computer vision, machine learning, swarm robotics, remote collaboration, and visualization. This suggests that an unstructured and aesthetic approach to research can inform and inspire new engineering research directions, within and beyond the scope of this particular project.

**KEYWORDS** Visual Arts | Platform | Innovation | Google | DevArt | Application Store

Generation of Engineering Research Directions through Artistic Process (SKYPE CONFERENCE)

Marco Pinter | Danny Bazo | George Legrady
University of California, Santa Barbara, USA
Angus Graeme Forbes
University of Illinois at Chicago, USA

This paper describes the creation of SwarmVision, a system of autonomous robotic cameras that functions both as the basis for an art installation and as an instrument for generating novel engineering research. Through a series of interviews with engineers who examined the project, we illustrate how experimentation with the instrument could lead to potential new research directions in computer vision, machine learning, swarm robotics, remote collaboration, and visualization. This suggests that an unstructured and aesthetic approach to research can inform and inspire new engineering research directions, within and beyond the scope of this particular project.

**KEYWORDS** Media Arts Methodologies | Computational Photography | Swarm Robotics Autonomous Robotic Cameras | Arts | Engineering

Virtual Idol Hatsune Miku: New Auratic Experience of the Performer as a Collaborative Platform

Jelena Guga
University of West Bohemia, Czech Republic

In this paper, the phenomenon of virtual idol Hatsune Miku will be analyzed in the context of critical theory, emerging technologies, and theory of digital art practices. The first part focuses on the phenomenon of the virtual celebrity seen as Deleuze and Guattari’s concept of ‘body without organs.’ The second part examines how the state-of-the-art technologies have enabled the existence of Hatsune Miku who is simultaneously a corporate software product, a pop icon, a performance artist, and a collaborative multimedia artwork. Based on the reading of Hatsune Miku as a hybrid product emerging from the fusion of arts and IT, the last part revolves around the concept of ‘aura’ (Benjamin) generated by virtual idol’s presence. Finally, the notion of hyperterminality is introduced not only to differentiate between entities/identities appearing on the surface of the screen and those virtual constructs co-existing with us in the spaces of physical reality, but also to explore how these newly emerging “phygital” entities transform the existing conceptions of body and identity.

**KEYWORDS** Virtual Idol | Body | Without Organs | Hyperterminality | Hologram | Aura | Collaborative Art | Augmented Reality
We Human-and-Technology

Virginia Tech, USA

November 11, Tuesday, 10:00

Traditional Painting Revised: The Ambient Intelligence Approach to Creativity

Nicolaos Partarakis | Margherita Antonia | Emmanuel Zidianakis | Panagiotis Koutlemanis
Foundation for Research and Technology - Hellas, Institute of Computer Science, Greece

Constantine Stephanidis
University of Crete, Greece

Today, many forms of art are influenced by the emergence of interactive technologies, including the mixing of physical media with digital technology for forming new hybrid works of art and the usage of mobile phones to create art projected on public spaces. Many artists and painters use digital technology to augment their work technically and creatively. In the same context many believe that the time of transition from traditional analogue art to postmodern digital art, that is, to an art grounded in codes rather than images has arrived. The research work described in this paper contributes towards supporting, through the use of Ambient Intelligence technologies, traditional painters’ creativity, as well as methods and techniques of art masters. The paper presents the design and implementation of an intelligent environment and its software infrastructure, to form a digitally augmented Art Workshop. Its practical exploitation was conducted in an Ambient Intelligence (AmI) simulation space and four feasibility studies were conducted. In each of these studies an oil painting was created following an alternative, yet accredited by artists, approach.

Keywords Ambient Intelligence | Painting, Creativity | Art | Art Creation

When Technology Collaborates: Politics and the Aesthetic of “We” Human-and-Technology

Hyunkyoung Cho | Timothy W. Luke | Joonsung Yoon
Virginia Tech, USA | Global School of Media, Soongsil University, Korea

This essay proposes “We” human-and-technology as the new human identity performed by the collaborative action of human and technology. Its aim is to open a new way for intersections of art, technology and humanities, through the political and aesthetic intimacy of human and technology in the collaborative action based interdependent perspective. “We” human-and-technology emphasizes the process of when the collaborative action of human and technology is performed. It shows that technology as power and knowledge relations intervenes on the knowledge system, in particular, the binary frame reinforcing a mutual degradation between human and technology, thought and action. In the collaboration of “We” human-and-technology, technology’s interventions focuses on two ideas: Enframing and the fetish. The former presents that the binary frame is an inversion. It uses an instrument for ideology subordinating both humans and technology into the instrument. The latter reveals that the binary frame of “Us” versus “Them” governs our senses through the fetish as blinded practices and beliefs. It implies that how the instrumental understanding of technology conducts the fetishism distorting relations between human and technology.

Keywords “We” Human-And-Technology | Collaborative Action | Politics And The Aesthetic

Enframing | The Fetish

Poetry of Separation: The Aesthetics of Spatial Montage and Generative Editing for Multi-Layered Screens

Bahng So Jung | Yoo Doo Won | Hutchings Patrick | Shi Chung Kon | Wakefield Graham
Graduate School of Innovation and Technology Management, Korea

November 11, Tuesday, 11:30

‘Poetry of Separation’ is a media artwork that utilizes an algorithmic generative editing system, selecting shots in real-time to be rendered over four screens arranged in layers. Editing in cinema reconstructs images by montage, deriving meaning from the juxtaposition of multiple shots. Although multi-screen projections have been used to present sectional montages that stress the simultaneity of events, spatially separated screens can disrupt attentiveness and affective involvement; the layered architecture avoids disruptive fragmentation. The generative editing system selects shots for the layered screens stochastically, with authorial constraints and probabilities using pre-determined shot criteria. Narrative flow and authorial intents are not damaged due to these criteria, but nevertheless unexpected effects arose from the stochastic system. The authorial intentions of improvisation and separation in the film content of ‘Poetry of Separations’ find resonance with the automatism of the generative editing system and multi-dimensionality of the screens.

Keywords Generative Montage | Generative Cinema | Spatial Montage | Complexity Editing | Multi-Layered Screens | Database Cinema | New Media Art

Technologies Expand Aesthetic Dimensions: Visualization and Sonification of Embodied Penwald Drawings

Myounghoon Jeon | Steven Landry | Joseph D. Ryan | James W. Walker
Michigan Technological University, USA

November 11, Tuesday, 15:30

Even though defining art gets more and more difficult, reintegrating art and technology seems to be a clear trend. The present paper aims to show how technologies can expand aesthetic dimensions of art works. Michigan Tech researchers collaborated with a world-renowned artist, Tony Orrico in the immersive virtual environment. While he performed, multiple cameras tracked his body movements and physiological devices logged his biosignals (respiration, heart rate, etc.). Then, the system translated the data into visualization and sonification. Incremental aesthetic dimensions (representation-performance, 2d-3d, outside-inside) obtained based on this art-technology collaboration are discussed with research in progress.

Keywords Aesthetic Computing | Digital Aesthetics | Embodied Drawing | Visualization

Interactive Sonification | Performing Arts
Exploring Felt Qualities of Embodied Interaction with Movement and Sound

Cumhur Erkut | Sofia Dahl
Aalborg University, Denmark

We present approaches for teaching and designing embodied interaction in collaboration with a contemporary dance choreographer. Our approaches are based on the felt qualities of movement, providing a shared experience, vocabulary for self-expression, and appreciation for movement as a design material for interaction design practitioners. In parallel, such activities provide art professionals competencies for new contexts. We present two workshops conducted at different times. The first workshop, back in 2009, brought about novel sonic interaction paradigms, technologies, and artifacts. The second workshop was carried out in March 2014, and we are in the process of developing interactive sketches by pairing our observations with motion tracking. In this paper, the activities in these workshops are presented, and reflected upon. In particular, we are investigating whether or not these activities guided the participants from the prevailing notion of command/control in embodied interaction towards experiences related to the felt qualities of movement.

Keywords: Embodied Human-Computer Interaction | Design Pedagogy

A Proposal for the Creation of a Dance Ontology

Annabel Clarance
Mills College, USA

In this paper we propose to outline the collective dance consciousness into a dance ontology. The creation of a dance ontology would allow for a more informed and productive academic discourse, as well as the opportunity to expand ideas to an international stage. This concretization of knowledge will elevate the study of dance history, theory and performance to a higher level of discourse, allowing comparison and conceptual synthesis with more frequency and ease. By utilizing the sophisticated structure of semantic web based ontologies, the dance world can maintain minutia while simultaneously expediting its discussion. Through the following exploration of the construction of an open-access dance ontology, the similarities between dance, which utilizes people as its medium, and information science, which utilizes binary as its medium, will come to the surface and subsequently shed light on how data-based discussion can help advance dance as an academic discipline.

Keywords: Dance, Ontology | Open Source | Dynamic Archive

Interactive Internet theatre (Interactive multimedia solutions at the New Aleksandrinsky Theatre Stage)

Nikolay Borisov | Artem Smolin | Denis Stolyarov | Pavel Shcherbakov
St. Petersburg National Research University of Information Technologies, Mechanics and Optics, Saint Petersburg State University

On May 15, 2013, in St. Petersburg, Russia, a new cultural venue, New Stage of Alexandrinsky Theatre, was inaugurated; the hi-tech show complex comprises three separate buildings united by one lobby. The main purpose of Alexandrinsky complex is to introduce experimental stage solution that require intense usage of modern multimedia technologies. One of the Center’s key activities is the use of interactive Internet Theatre technologies. The term interactive internet theatre is explored in this paper, as well as the experience of introducing various IT solutions into stage work, based on the cooperation between the University of Information Technologies, Mechanics and Optics, Al-exandrinsky Theatre, and St. Petersburg State Academy of Performing Arts.

Keywords: Multimediatechnologies | Theatre | Information | Nru Itmo | Spbgu

Design of a non-intrusive augmented trumpet

Claudia Rinaldi | Luigi Pomante
Center of Excellence DEWS, University of L’Aquila, Italy

This paper describes the design and first prototype implementation of an innovative concept of augmented instruments. The main idea is given by the opportunity offered by cameras and image recognition algorithms, to avoid the use of intrusive and often wired sensors. This latter aspect is indeed one of the main limitations to augmentation since also interested players usually try to avoid “external elements” on their priceless instruments.

Keywords: Augmented Instruments | Image Recognition | User Interface | Kinect
Digital Creativity: Children’s Playful Mastery of Technology

Eva Petersson Brooks | Anthony Lewis Brooks
Aalborg University, Denmark

This paper reports on a study exploring the outcomes from children’s play with technology in early childhood learning practices. The paper addresses questions related to how digital technology can foster creativity in early childhood learning environments. It consists of an analysis of children’s interaction with the KidSmart furniture focusing on digital creativity potentials and play values suggested by the technology. The study applied a qualitative approach and included 125 children (aged three to five), 10 pedagogues, and two librarians. The results suggest that educators should sensitively consider intervening when children are interacting with technology, and rather put emphasis into the integration of the technology into the environment and to the curriculum in order to shape playful structures for children’s digital creativity.

**KEYWORDS** Early Childhood Learning | Playful Learning | Interaction | Technology | Affordances

Authoring of digital games via card games: make playful play happen

Andrea Valente
Maersk Mc-Kinney Møller Institute, University of Southern, Denmark

Emanuela Marchetti
Aalborg University, Denmark

Literature and previous studies show that creative play is easy to emerge when children interact with tangible, low-tech toys and games than with digital games. This paradoxical situation is linked to the long-standing problem of end-users (or players) authoring of digital contents and systems. We propose a new scenario in which trading card games help making sense and re-design computer games, to support players express themselves aesthetically and in a highly creative way. Our aim is to look for a middle ground between players becoming programmers and simply editing levels. The main contributions are to show how card games can represent digital games, how playful play can emerge in card games and digital games, and to begin defining a new way to express game behavior without the use of universal programming languages.

**KEYWORDS** Creativity | Playful Play | Authoring | Digital Games

Large-Scale Analysis of Art Proportions

Kristofer Jensen
Aalborg University, Denmark

While literature often tries to impute mathematical constants into art, this large-scale study [11 databases of paintings and photos, around 200,000 items] shows a different truth. The analysis, consisting of the width/height proportions, shows a value of rarely if ever one (square) and with majority of images having a proportion larger than one, but less than e.g. the golden ratio. Furthermore, more images have the inverted proportion, meaning that portrait paintings are more common than landscape paintings. The inverse is true for photographs, i.e. more landscape than portrait format photographs has been found in the databases.

**KEYWORDS** Art | Proportions | Preference | Golden Ratio

Augmented Sculptures: What You See is not What You See

Selçuk Artut
Sabancı University, Turkey

The idea of Augmented Reality Technologies enhances our ability to perceive a location with additional 3D visual elements. A point of interest becomes meta-constructed with addition of extended layers via augmented space elements. Augmented Reality presents us a virtually enriched version of a visually noticeable reality world which already exists and can easily be seen. In this article, in addition to questioning the representative existence of the art object in the work of art called “What You See is not What You See” which is created by Augmented Reality technique, the methods being followed for Augmented Reality production technique are examined in details.

**KEYWORDS** Augmented Reality | Art | Sculpture | Perlin Noise

ICTARTCONNECT.study @ ArtsIT Roundtable Discussion

There is a growing consensus that for innovation to happen the critical skills needed - in addition to strong technical and scientific skills – are creative skills - out-of-box thinking and capacity for communication and collaboration. In this context, following a trend towards convergence of all domains of knowledge, the Arts are gaining prominence as a catalyst for radical transformations of R&D&E practices. Integrating artists to trigger disruptive innovation is becoming common practice, world-wide, in many innovative institutions and high-tech companies in order to convert technical skill and scientific knowledge into innovative products, make technologies more human-centered and to immerse better technology into society and culture and most importantly into human experience. For example, projects like ARDUINO (open hardware platform) are rooted in artistic practice but have led to radically different approaches (ARDUINO has become a de facto industrial standard in open hardware). One might argue that artistic processes deliver prototypes, as they are practice-based focused on making things and not purely theory-driven. More generally, making art – working creatively – is a way to connect debates about values with (physical) forms and (social) processes. It is timely to analyse how these developments can be best taken up in research funded by the European Commission. The round table will bring together artists and eminent experts in ICT to discuss how ICT and the Arts can best interact and what the outcomes of such collaboration could be. Keywords: Augmented Reality | Art | Sculpture | Perlin Noise
amberFestival is the first and the only festival in the field of Art and Technology organized in Istanbul, since its inception in 2007.

amberFestival promotes new technologies in art and aims at fostering new forms of artistic expression through the possibilities of new technologies.

amberFestival consists of exhibitions of interactive installations, stage performances, artists presentations, seminars and workshops, through which amberFestival creates a platform for artistic exchange and collaborations. It is an annual festival takes places in the second week of November in Istanbul.

As a thematic event, amberFestival brings questions in the junction of technology art and life to the attention of the public. This year’s theme is “Decentralisation” to discuss around the other possibilities and other forms of centre in the ongoing tension between centers and the peripheries of any kind.
**NOVEMBER 6**

*Dance with Different Bodies and MetaBodyBox*

workshop in the frame of “Interfaces for Body and Space”

*SALT Galata*
Bankalar Caddesi 11 Karaköy 34420 İstanbul Türkiye

*Christal Bodies*

workshop in the frame of “Interfaces for Body and Space”

*İstanbul Teknik Üniversitesi*
Mimarlik Fakültesi, Taşkısla Kampüsü 34743, Beyoğlu İstanbul

*Dancing with Sheldon*

workshop in the frame of “Interfaces for Body and Space”

*Çıplak Ayaklar Stüdyosu*
Firuzağa mah. Çukurcuma caddesi No: 6/3 Beyoğlu, İstanbul

**NOVEMBER 7**

*Standards of and Experiences with Citizen Participation in Urban Transformation Processes*

Talk: 19:00-21:00

*TAK Kadıköy*
Rasimpaşa Mah. Duatepe Sk. No: 61 Yeldeğirmeni Kadıköy, İstanbul

**NOVEMBER 7**

*Dance with Different Bodies and MetaBodyBox*

workshop in the frame of “Interfaces for Body and Space”

*SALT Galata*
Bankalar Caddesi 11 Karaköy 34420 İstanbul Türkiye

*Christal Bodies*

workshop in the frame of “Interfaces for Body and Space”

*İstanbul Teknik Üniversitesi*
Mimarlik Fakültesi, Taşkısla Kampüsü 34743, Beyoğlu İstanbul

*Dancing with Sheldon*

workshop in the frame of “Interfaces for Body and Space”

*Çıplak Ayaklar Stüdyosu*
Firuzağa mah. Çukurcuma caddesi No: 6/3 Beyoğlu, İstanbul

**live.code**

Live Coding Performance at 22:00

*Cosmique Room*
Küçük Bayram Sokak 5A Beyoğlu, İstanbul

**Not an Obstacle**

workshop in the frame of “Interfaces for Body and Space”

*DEPO / Tütün Deposu*
Lüleci Hendek Caddesi No.12 Tophane 34425 İstanbul
**NOVEMBER 8**

*In the Context of New Technologies, Decentralization in Art, Design and Production*
Theory Workshop | 14:00-16:30

_StudioX_
Meclis-i Mebusan Caddesi 35A 34433 Salıpazarı, İstanbul

*Dance with Different Bodies and MetaBodyBox*
*workshop in the frame of “Interfaces for Body and Space”*

_SALT Galata_
Bankalar Caddesi 11 Karaköy 34420 İstanbul Türkiye

*Christal Bodies*
*workshop in the frame of “Interfaces for Body and Space”*

_İstanbul Teknik Üniversitesi_
Mimarlık Fakültesi, Taşkışla Kampüsü 34743, Beyoğlu İstanbul

*Dancing with Sheldon*
*workshop in the frame of “Interfaces for Body and Space”*

_Çıplak Ayaklar Stüdyosu_
Firuzaga mah. Çukurcuma caddesi No: 6/3 Beyoğlu, İstanbul

*Not an Obstacle*
*workshop in the frame of “Interfaces for Body and Space”*

_DEPO / Tütün Deposu_
Lüleci Hendek Caddesi No.12 Tophane 34425 İstanbul

**NOVEMBER 9**

*Interfaces for Body and Space*
Performances–Exhibit–Talks | 12:00-18:00

_SALT Beyoğlu_
İstiklal Caddesi 136 Beyoğlu 34430 İstanbul

**NOVEMBER 10**

*DE’03: Dekonstrakt.01: Knit*
Audio Visual Performance | 21:00

_RAW ISTANBUL_
Necatibey cad. No 66 Karaköy, İstanbul

**NOVEMBER 11–14**

*Open School*
16:00-20:00

_TAK Kadıköy_
Rasimpaşa Mah. Duatepe Sk. No: 61 Yeldeğirmeni Kadıköy, İstanbul

**NOVEMBER 13**

*Art Making*
Panel in the frame of “Mini Maker Fair İstanbul”
14:00-14:30

_Haliç Kongre Merkezi_
Sütlüce Mah. Karaağaç Cad. No.19 34445 Beyoğlu, İstanbul
**NOVEMBER 15**

**In the Context of New Technologies, Decentralization in Society, Policy and Communication**  
*Theory Workshop | 14:00-16:30*

StudioX  
Meclis-i Mebusan Caddesi 35A 34433 Salıpazarı, İstanbul

---

**Blinking Postcards**  
*yap! Workshop for Children | 11:30-13:30*

TAK Kadıköy  
Rasimpaşa Mah. Duatepe Sk. No: 61 Yeldeğirmeni Kadıköy, İstanbul
COLOPHON

**DESIGN**  Onur Yazıcıgil | onuryazicigil.com

**TYPEFACE**  The serif typeface is **FF Tisa** by Mitja Miklavčič; the sans is **Duru Sans** by Onur Yazıcıgil.

**COVER PHOTO**  Beşiktaş Ferry Station | Kadıköy, Istanbul  
Stephanie Paine | stephaniepaine.com

**PRINTING & BINDING**  Digital Image, Beşiktaş, İstanbul  
www.digitalimage.com.tr