

EVA London 2017

EVA London
Electronic Visualisation and the Arts
www.eva-london.org



Proceedings of EVA London 2017

BCS London
10–13 July 2017

Editors:
Jonathan P. Bowen
Graham Diprose
Nick Lambert

www.bcs.org/ewic/eva2017

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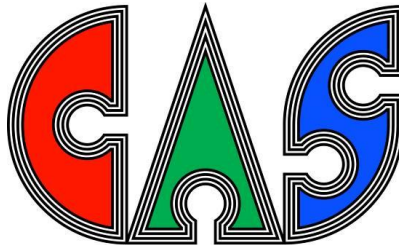
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Thanks to all the speakers and participants for making the EVA London conference a continuing success.



The Computer Arts Society



Preface

The *Electronic Visualisation and the Arts* London 2017 Conference (EVA London 2017) is co-sponsored by the Computer Arts Society (CAS) and BCS, the Chartered Institute for IT, of which the CAS is a Specialist Group.

Over recent decades, the EVA London Conference on *Electronic Visualisation and the Arts* has established itself as one of the United Kingdom's most innovative and interdisciplinary conferences. It brings together a wide range of research domains to celebrate a diverse set of interests, with a specialised focus on visualisation.

The papers and extended abstracts in this volume cover varied topics concerning the arts, visualisations, and IT, including 3D, animation, art, big data, creativity, design, heritage, literature, museums, neuroscience, politics, post-human bodies, publishing, social media, and virtual perception, as well as other related interdisciplinary areas.

The EVA London 2017 Conference presents a wide spectrum of papers, presentations, demonstrations, a Research Workshop and a special one-day pre-conference event for the second year, the EVA Pre-Conference Symposium (entitled "*Coded Communication: Digital Senses and Aesthetics, Merging Art and Life*") on 10 July 2017, with keynote and invited speakers, sponsored by the Pratt Institute in New York, and the Royal College of Art in London. This is in association with a London Summer School on "*The Arts and Digital Culture*" being held 26 June to 7 July 2017 at King's College London and co-organised by the Pratt Institute, just before the EVA London 2017 Conference.

This year, the Lumen Prize and V&A Digital Futures have organised the EVA London 2017 Conference exhibition, at Hackney House on 11 July 2017, together

with "showreel" videos in the foyer during the EVA London 2017 Conference itself.

As in previous years, there is a Research Workshop running in parallel on the first day of the conference, to encourage postgraduate student participation. Presenters at the Research Workshop are offered bursaries for free attendance on that day. Several other bursaries are also available to encourage attendance by those with no other source of funding (especially independent artists contributing to the conference, including for the Lumen Prize exhibition).

EVA London 2017 presents papers and abstracts from international researchers inside and outside academia, from graduate artists, PhD students, seasoned industry professionals, established scholars, and senior researchers, who value EVA London for its interdisciplinary community. This year, the conference again features three keynote talks, one on each day of the main conference.

This publication has resulted from a selective peer review process, fitting as many excellent submissions as possible into the limited timetable of the conference. This year, submissions have almost doubled from the previous, so it is pleasing to have so many good proposals from which to select the programme.

EVA London is part of a larger network of EVA international conferences. In the past twenty years, EVA events have been held in Athens, Beijing, Berlin, Brussels, California, Cambridge (both UK and USA), Canberra, Dallas, Delhi, Edinburgh, Florence, Gifu (Japan), Glasgow, Harvard, Jerusalem, Kiev, Laval, London, Madrid, Montreal, Moscow, New York, Paris, Prague, St Petersburg, Thessaloniki, and Warsaw. Further venues for EVA conferences are very much encouraged by the EVA community. EVA Copenhagen 2018 in Denmark has recently been announced.

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The people listed below reviewed submissions for the EVA London 2017 Conference and the Organising Committee is very grateful for their voluntary help in the selection process.

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