THE PERFORMANCE OF NONHUMAN BEHAVIOUR

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ABSTRACT
This workshop is situated at the convergence of technology, behaviour and people’s understanding of the nonhuman entities with which they interact, questioning the ideas of ‘intelligence’ and ‘smartness’.

As the Internet of Things, ‘smart cities’, Quantified Self, and similar concepts intersect with design for behaviour change and sustainable behaviour, becoming pressing research themes across product, service, interaction and architectural design, we ask how the relationships between humans and nonhumans are characterised and articulated.

WORKSHOP AIMS
Through using performative methods, this workshop aims to explore questions such as:
• What kind of conversations take place between humans and machines, and the surrounding environment?
• How is algorithmic decision-making, as designed into systems, experienced and understood by humans?
• How can designers engage with algorithms, critically but also usefully?
• What does it mean when nonhuman performance becomes a material of design practice?

INTRODUCTION
This full-day workshop is for designers and researchers interested in exploring and challenging anthropocentric assumptions about the way we interact with technology.

Through a range of activities, participants will explore, practically, non-human-centric worlds, and be introduced to novel performative methods for exploring or challenging anthropocentrism in design.

The workshop is ideally suited to professionals and postgraduate researchers engaging with any of the issues involved, from the politics of artefacts to ubiquitous computing.

We are interested in having a diverse group to bring together the varying viewpoint of the different participants. The interactive nature of the planned programme means that 15 people is the maximum in order to involve everybody in the discussions and performances.

We will ask participants beforehand to send a screenshot of their computer desktop and a picture of their workspace environment (context). In this way, we will start the session by inferring (making assumptions) of whose picture belongs to each participant, demonstrating the assumptions that could be made algorithmically (or otherwise) from the data provided, and enabling the qualities and implications of those assumptions to be explored and questioned.

Figure 1: Tweet by Scott Smith (Changeist), July 2014
PROGRAMME
Following this activity, the day will be divided into three main activities (Table 1), involving everyone, exploring different facets of the interaction between humans and systems through performances, and the sharing of ideas, stories, and theories.

Throughout the day, we will document these performances as they happen; encouraging participants to engage in live analogue, blog and Twitter commentary. We want to retain the vibrancy of the discussions involving all the participants—to avoid an all-too-common phenomenon of group workshops where the intensity of discussion in closed smaller groups inevitably loses the immediacy and context of those thoughts when they are reported back to the wider group.

Table 1: Outline of the day.

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>Morning</td>
<td>Introducing everyone</td>
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<td>Fika break</td>
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<td>Part 1: Evolution, complexity, context &amp; intelligence</td>
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<td>Lunch</td>
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<td>Afternoon</td>
<td>Part 2: Objects, thinking machines &amp; performance</td>
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<td>Fika break</td>
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<td>Part 3: Do we understand each other?</td>
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<td>Discussion of the day</td>
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Part 1: Evolution, complexity, context & intelligence
Led by Delfina Fantini van Ditmar

As an introduction for the rest of the workshop, we will start with a presentation in which we will explain some aspects of biological evolution (from amoebas to humans; Fig. 3) together with a timeline of computing history (Computers, robots...) and the evolution of the Internet. In the case of technology we will show some complexities around the subject of intelligence by demonstrating the relevance of context (environment) in the interaction (e.g. Fig. 2).

Part 2: Objects, thinking machines & performance
Led by Claudia Dutson

For the second activity, a short warm-up exercise will introduce participants to active performative methods for investigating objects and thinking machines.

By drawing parallels between Constantin Stanislavski’s theory of goal-driven action—and heuristic algorithms—participants will be guided in devising small improvisations of the interactions between non-humans and their environment and with other non-humans (without defaulting to anthropomorphic projection). We will address (and challenge!) theories of intention, consciousness and vital materialism/ object oriented ontology.

Part 3: Do we understand each other?
Led by Dan Lockton

We will explore aspects of etiquette, empathy and superstition, through a fun activity where—in playing the roles of people and ‘smart’ objects together engaged in responding to social situations—we articulate our own mental models, the heuristics we are following, and our worries about others knowing these too accurately. We explore the reciprocal degrees of opacity of the black box (Ashby, 1956; Glanville, 2007; Fig. 4).

Drawing on Argyris & Schön’s (1974) Theory in Practice and Laing’s (1970) Knots, but also current work around persuasive design (e.g. Crilly, 2011) and public understanding of the IoT (e.g. Lockton, 2014), the aim is to arrive at a set of example (mis)understandings which can form the basis of more detailed analysis, while highlighting issues relevant to designers working on everything from ‘behaviour change’ to the Internet of Things.
WORKSHOP ORGANISERS

The workshop is facilitated by researchers from the Royal College of Art, London, working on a range of projects around design, interaction and behaviour.

Claudia Dutson is completing a PhD at the Royal College of Art in the department of Architecture, on thermal control in architecture. Using performative practice and artificial intelligence, her project restages the interactions of an artificially intelligent thermostat with occupants as a video performance. The script is formed from a large database of idioms and metaphors for heat, with underlying narratives of productivity, economics, desire, ecological crisis and war. Her work investigates the convergence of computing and architecture, with a feminist critique of technosolutionism through language games.

She holds a BSc and MA in Architecture, and has written a book on artificial light. Before architecture she trained in media production, and worked in new media consultancy during the dotcom bubble (and burst). http://www.claudiadutson.com

Delfina Fantini van Ditmar is working in the area of ‘The Age of Calm Technology’. In this context, her interest is in exploring the subject of ubiquitous computing, which can be defined as information processing embedded in the objects and surfaces of everyday life (Weiser, 1991). Her research is focused on the IoT and the interconnected physical-digital relations that are influencing the way we dwell. By analyzing the ecology of future housing she explores new technologies by addressing the design as a spatial and socio-cultural system, rather than by focusing on product design or the technology.

Delfina is a PhD candidate in Innovation Design Engineering (IDE) at the Royal College of Art. Delfina holds a BA in Biology and completed one year of an MFA at Konstfack University, Stockholm. Her work has been exhibited at the Victoria and Albert Museum and the Natural History Museum. In 2011 she was awarded the Heinz von Foerster Award by the American Society for Cybernetics.

Dan Lockton is interested in relationships between design and people’s behaviour, understanding of everyday systems, and consequences for society and sustainability, weaving ideas from ethnography, cybernetics and decision science. He is a research tutor in Innovation Design Engineering at the RCA, supervising PhDs in areas including the IoT, synaesthesia, and design for repair. From 2013-15 he worked at the Helen Hamlyn Centre for Design, on projects from sonification of home energy use to public engagement with driverless cars. For his PhD, at Brunel University, Dan developed Design with Intent, a multidisciplinary design pattern toolkit for behaviour change. He also has an MPhil in Technology Policy from the University of Cambridge.

http://danlockton.co.uk

REFERENCES


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