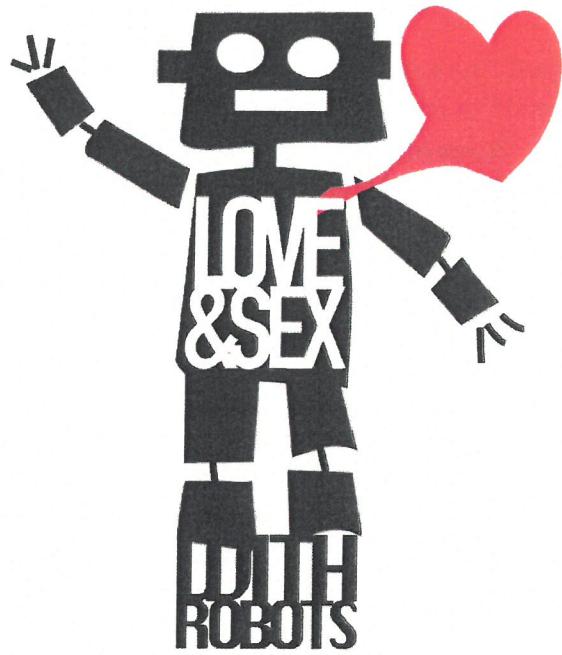


SECOND INTERNATIONAL CONGRESS ON LOVE AND SEX WITH ROBOTS

19-20 DECEMBER 2016



GOLDSMITHS, UNIVERSITY OF LONDON, UK

#LSR16

MONDAY 19 DECEMBER 2016

09:00 - 9:30	Registration and coffee
09:30 - 11:00	Paper Session 1 <ul style="list-style-type: none">○ <i>Sex Robots from the Perspective of Machine Ethics.</i> Oliver Bendel.○ <i>ROMOT: a Robotic 3D-Movie Theater Allowing Interaction and Multimodal Experience.</i> Sergio Casas, Cristina Portalés, María Vidal-González, Inma García-Pereira, Marcos Fernández.○ <i>For the Love of Artifice 2: Attachment.</i> Trudy Barber
11:00 - 11:30	Coffee Break
11:30 - 12:15	Keynote Speech 1 - Dr Kate Devlin <i>In Defense of the Sex Robot</i>
LUNCH	
13:30 - 14:15	Keynote Speech 2 - Dr Genevieve Liveley <i>Beyond the Beautiful Evil? The Ancient/Future History of Sex Robots</i>
14:15 - 15:45	Paper Session 2 <ul style="list-style-type: none">○ <i>A New Breed of Sex Robots in THE GOOD GIRL and Films.</i> Julie Wosk○ <i>Influences on the Intention to buy a Sex Robot: An empirical study on influences of personality traits and personal characteristics on the intention to buy a sex robot.</i> Jessica Szczuka, Nicole C. Krämer.○ <i>Kissenger - Development of a Real-time Internet Kiss Communication Interface for Mobile Phones.</i> Emma Yann Zhang, Shogo Nishiguchi, Adrian David Cheok, Yukihiro Morisawa.
15:45 - 16:15	Coffee Break
16:15 - 17:30	Panel Session: What is the Future of Robotic Sex? <ul style="list-style-type: none">○ <i>Panelists:</i> Adrian David Cheok, Kate Devlin, David Levy, Genevieve Liveley. <i>Panelist speaker:</i> Eleanor Hancock○ Screening of short film - <i>Gadget</i>

WINE RECEPTION

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TUESDAY 20 DECEMBER 2016

09:30 - 10:00	Registration and coffee
10:00 - 11:30	Paper Session 3 <ul style="list-style-type: none">○ <i>Exploration of Relational Factors and the Likelihood of a Sexual Robotic Experience.</i> Riley Richards, Jace Quinn.○ <i>The impact of a humanlike communication medium on the development of intimate human relationship.</i> <u>Hidenobu Sumioka</u>, Nobuhiro Jinnai, Takashi Minato, <u>Hiroshi Ishiguro</u>.○ <i>Sex with Robots for Love Free Encounters.</i> Lynne Hall
11:30 - 12:00	Coffee Break
12:00 - 13:30	Paper Session 4 <ul style="list-style-type: none">○ <i>Affective Labor and Technologies of Gender in Wei Yahua's "Conjugal Happiness in the Arms of Morpheus".</i> Virginia Conn.○ <i>Teletongue: A Lollipop Device For Remote Oral Interaction.</i> Daisuke Yukita.○ <i>Robots, and Intimacies; A Preliminary Study of Perceptions of Robots and Intimacies with Robots.</i> Chamari Edirisinghe, Adrian David Cheok.
	LUNCH
14:45 - 15:30	Keynote Speech 3 - Dr David Levy <i>Why not marry a robot?</i>
15:30 - 16:00	Closing

ABSTRACTS

PAPER SESSION 1

Sex Robots from the Perspective of Machine Ethics

Oliver Bendel,
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This talk explains firstly the term and the phenomenon of sex robots and the foundations of machine ethics. Secondly it poses questions related to sex robots as moral subjects, from a general and a specific perspective, aiming at assisting manufacturers and developers. In the full paper, those are evaluated and explained in detail. Additionally, the fields of applied ethics are included to work out the implications for humans as moral objects. At the end, the author summarizes the findings. Machine ethics, from his point of view, may help to construct sex robots which are moral machines in their appearance and in their behaviour.

ROMOT: a Robotic 3D-Movie Theater Allowing Interaction and Multimodal Experiences

Sergio Casas, Universitat de València; Cristina Portalés, Universitat de València; María Vidal-González, Universitat de València; Inma García-Pereira, Universitat de València; Marcos Fernández, Universitat de València
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In this paper we introduce ROMOT, a RObotic 3D-MOVie Theater. ROMOT is built with a robotic motion platform, includes multimodal devices and supports audience-film interaction. We present the results of some preliminary user tests made at the laboratory level and they give satisfactory scores for the usability of the system and the individual's satisfaction. As well, we show the versatility of the system by means of different types of system setups and generated content that includes a first-person movie and others involving the technologies of virtual, augmented and mixed realities. The contents shown here are related to driving safety, though they could be adapted to other fields, such as learning, entertainment, love, sex, etc.

For the Love of Artifice 2: Attachment.

Trudy Barber, University of Portsmouth
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This work is an extension to the original paper written for the AISB50 Conference Symposium by the author 'For the Love of Artifice: why we need robot sex dolls and why there is a growing subculture of people trying to become them' where evolutionary sexual strategies were introduced (Buss and Schmidt 1993) as a lens for discussing relations with artificial humans. In addition, this paper has combined 'Love Mapping' (Money, 1986) with theoretical approaches to attachment (Schwartz and White, 2005) as a framework to explore our individual sexual strategies with artificial partners. It is argued in this extended paper that such theoretical approaches should be combined to facilitate discourse on the impact of robotic and technological intimacy on the end user. This need not necessarily be solely seen in terms of psychological aspects, but also in relation to contemporary participatory culture (Jenkins 2006), associations with multi-mediated geek fandoms and fetishes, and concepts of social acceptance. As a consequence of this, elements of attachment explored as a sexual project rather than an emotional one, as in erotic countertransference onto robots and technology for example, will be developed.

ABSTRACTS

PAPER SESSION 2

A New Breed of Sex Robots in THE GOOD GIRL and films

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In films, television series, fiction-- and robotics today---sex robots are often presented as soothing, adoring creatures who are compliant and cheerful, and utter only pleasing words. These docile creatures often represent the age-old quest to use technology to create the "Perfect Woman," the flawless female stripped of idiosyncrasies and individuality who embodies many men's fantasies and dreams. But in Emile Collyer's recent play "The Good Girl," a sex doll is retooled to combat boredom---with lethal consequences.

Influences on the Intention to buy a Sex Robot: An empirical study on influences of personality traits and personal characteristics on the intention to buy a sex robot

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Research in the field of sexual aspects of human-robot-interaction is nearly non-existent, even though the topic represents an emerging field of application for humanoid robots. The present study aimed to investigate not to investigate personal characteristics (e.g. relationship status or personality) and personality traits (just as loneliness) would influence the intention to buy a Sex Robot. An online survey with 263 male participants showed that 40.3% would buy such a robot now or within the next five years. We could show that the relationship status or sexual fulfillment has no impact on the intention to buy a sex robot, rather, negative attitude towards robots and anthropomorphic tendency seem to have a significant impact.

Kissenger -Development of a Real-time Internet Kiss Communication Interface for Mobile Phones

Emma Yann Zhang, City University London; Shogo Nishiguchi, Osaka University; Adrian David Cheok, Imagineering Institute; Yukihiro Morisawa, Saitama Institute of Technology

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A real-time bilateral kiss communication interface is developed for transmitting multisensory kissing sensations over the Internet using mobile phones. Kissenger consists of a plugin haptic device that attaches to a mobile phone and a mobile application that connects to the device and sends real-time data stream over the Internet. The device uses an array of linear actuators to generate haptic stimulations on the human lips and force sensors to measure the force output. Bilateral force-feedback control is used to synchronise the forces on both sides of the system. The aim is to provide an intimate communication channel for couples and families to physically interact with each other in order to maintain close relationships even at a distance."

ABSTRACTS

PAPER SESSION 3

Exploration of Relational Factors and the Likelihood of a Sexual Robotic Experience

Riley Richards, University of Wisconsin - Milwaukee; Chelsea Coss, Western Michigan University ; Jace Quinn, Western Michigan University
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As technology progresses, robots will become increasingly involved in our everyday lives. Robots are already available for individual purchase and are starting to appear in our homes and offices. Robots specifically built for sexual experiences are presently available on the market. There is no current research on sexual robots or how it will affect our previous, current, and future sexual relationships. This study asked 133 participants to understand what relational factors could contribute to the likelihood of participants having a sexual episode with a robot. Results indicate one is more likely to have a sexual episode with a robot the more sexual fantasies and risky behavior one partakes in. Additionally, one is less likely to have sex with a robot the more they view robots negatively. Findings are discussed with future research directions

The impact of a humanlike communication medium on the development of intimate human relationship

Hidenobu Sumioka, ATR, JST ERATO; Nobuhiro Jinnai, Osaka University; Takashi Minato, ATR, JST ERATO; Hiroshi Ishiguro, Osaka University, ATR, JST ERATO
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In this paper, we reports how a humanlike communication medium affects the development of human relationships. We examined changes in the relationship between persons when they interact with each other through humanlike communication media or mobile phones for about a month. The intimacy of their relationship was evaluated with the amount of self-disclosure. The result shows that a communication medium with humanlike appearance facilitates the development of intimate relationship even when it just has humanlike shape and other functions are the same as standard mobile phones. We also discuss a possible underlying mechanism of this effect from misattribution of a feeling caused by intimate distance with the medium to a conversation partner.

Sex with Robots for Love Free Encounters

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This paper considers sex with robots for love free encounters within the context of pornographic experiences. Leisure sex and pornography are briefly outlined, along with the potential of the market. A lack of research on the user experience of pornography is identified with the proposal of categorising robots used in pornography as fantasy sex robots. Technological advances for pornography and their relevance for such fantasy sex robots are explored examining the potential offered through the integration of Virtual Reality, teledildonics, soft and wearable robots. The required integrations and advances in robotics to support love free sexual pleasure could have a valuable impact on user experience and interactivity across a range of domains.

ABSTRACTS

PAPER SESSION 4

Affective Labor and Technologies of Gender in Wei Yahua's "Conjugal Happiness in the Arms of Morpheus"

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Robotics explores the boundary between the human body and its objective use value, but within a Chinese context, the questions of gender and labor rise to the forefront. This privileging of technology at the expense of labor in the post-Mao 80s is examined in the short story, "Conjugal Happiness in the Arms of Morpheus," which uses the feminine performativity of a robot wife to exam the role of affective labor and the legal status of objects. Such a performance decenters the human subject while simultaneously subjugating the laboring technological materials. It is in this gendered performance that subjectivity is acquired under the law.

Teletongue: A Lollipop Device For Remote Oral Interaction

Daisuke Yukita, Keio University, Graduate School of Media Design
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In this paper we present Teletongue, a lollipop device that provides remote oral interaction between two people. This project is a work in progress; each lollipop device is currently physically connected via an Arduino, where one lollipop senses the licking "gestures" and the licking "sound" of the user, and the other lollipop vibrates accordingly to the gestures and playbacks the recorded sound. In the future we will be connecting the two devices via the ZigBee protocol to realize true remote interaction. Whilst many current devices that support intimate relationships with others (including so-called sex toys or teledildonics) are for special uses and are somewhat out of our everyday lives, the goal of this work is to provide a natural way of enhancing and enjoying intimate relationships that blends in to our everyday life. In this paper we explain the background and the motivation for our work, then present the design process and the system design of Teletongue.

Robots, and Intimacies; A Preliminary Study of Perceptions of Robots and Intimacies with Robots

Chamari Edirisinghe, Adrian David Cheok, Imagineering Institute, City, University of London.
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When David Levy first introduced the subject of 'love and sex with robots', he became a provocateur of a conversation that spread from morality to the rights of robots. With the rapid development in Artificial Intelligence functions, love and sex with robots is expected to be a reality in near future. However, the question remains, how much humans understand and accept intimacies with robots. We argue that perceptions of human-robot interactions (HRI) have a certain impact on how individuals comprehend intimacies with robots. In this study, a pilot study of first stage of a series of studies, we examined the perception of robots, and intimacies with robots, and realized our sample created a 'self and other', and 'over there but not here' distinction when it comes to the perception of HRI. This stance, we like to identify as an adoption of a moral position, not simply with regards to love and sex with robots, but also communicating to HRI.

For evening food and drink we recommend:

The Rose Pub and Kitchen

272 New Cross Rd, London SE14 6AA

Gastropub located across the road from New Cross Gate station.

Wood-fired pizzas and roasts, as well as an excellent range of wines, craft beers and agave.

<http://www.rosepubandkitchen.com/>

The Fat Walrus

44 Lewisham Way, New Cross, SE14 6NP

American influenced-menu, Good range of beer cider: 12 draught options, 3 hand pulls and 15 bottles. Wine and spirits list.

<http://www.thefatwalrus.com/>

Reyna

379-383 New Cross Rd, London SE14 6AT

Mediterranean meat and fish grills; Turkish-style pizza.

<http://www.reynarestaurant.co.uk/>

New Cross House

316 New Cross Road, New Cross, SE14 6AF

Bar with hand-stretched pizza menu. Craft beers.

<http://www.thenewcrosshouse.com/>

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