In-depth Discussion Sessions: Monday 17 October 2016, 10.00-18.00
Outline - Run-sheet - Objectives

In-depth Discussion: Robotics and Artificial Intelligence

- Social robotics and (the manipulation of) trust
- Deep learning, unpredictability and the duty to explain
- AI discrimination and how it affects privacy

10.00 John Edwards, ICDPPC Chair and session chair, who will already be on stage for earlier formal business will be joined by Ian Kerr. John Edwards will introduce the presenters and hand the session over to Ian Kerr as moderator.

This three hour time block 10:00-13.30 (minus 30 minute refreshment break taken at a natural break in the discussion, probably around 11.15) will be used by the three speakers to transfer specialised knowledge about robotics/AI/privacy to the commissioners in the form of three 40 minute lectures — each followed by a brief Q&A. The speakers intend to offer a rich, robust and substantive understanding of the subject matter rather than a quick moving, entertaining dialogue. Consequently, the chief goal of the first block of time is to provide the intellectual foundations necessary for commissioners to carefully reflect on how these emerging technologies will affect their own jurisdictions, as well as the broader international discussion about future protection of privacy.

In addition to a detailed investigation of their subject areas, each of the three presenters has agreed to generate two key policy challenges — all six of which will be studied further in the afternoon session (which is designed to offer a DPA-focussed policy discussion of the most crucial issues arising from emerging Robotics/AI technologies).

The first lecture will be by Nadia Magnenat Thalmann. It will introduce commissioners to state of the art developments in the field of social robotics, providing some basics on the technology. It will focus on embodied robots but will also briefly discuss AI, raising some broader social concerns. This presentation will include videos and described experimentation to give the audience a clearer sense of technologies that have not yet been commercialised as well as a sense of what is around the corner.

The second lecture will be by Ian Kerr. It will pick up the discussion on social robots, tying that discussion more directly to key privacy concerns that arise. In addition to discussing how law and policy might deal with questions of anthropomorphism and anthropomorphic design, Ian Kerr will also discuss how social features of robots and artificial intelligence generate novel problems in data collection, use and disclosure that do not involve human oversight. Among other things, this will lead to a discussion of machine unpredictability and the problems that result.

The third lecture will be by Mireille Hildebrandt. It focuses upon the question of machine unpredictability in order to focus on privacy issues relating to opacity and bias in AI systems. It aims

to demonstrate problems that arise from distributed agency such as accountability and causality, linking AI machine learning with various privacy issues. These problems will be addressed in terms of the EU right to profile transparency, demonstrating some of the challenges that lie ahead.

In addition to their general substantive contributions, each of the three presentations will generate key policy challenges. We will end the morning session by displaying those challenges and asking the commissioner community to percolate and reflect on additional challenges that should be added to the list. This will kick-start the afternoon policy discussion.

14:30-16:00: John Edwards, Ian Kerr, Nadia Magnenat Thalmann and Mireille Hildebrandt return to the stage following the lunch break.

This 1.5 hour time block will used for a lengthy policy discussion of robotics/AI/privacy from a DPA perspective. We will use the six policy challenges generated in the morning session as a launch point. At the beginning of the afternoon session, the participants will be given ten minutes to generate a list of what they see as the key policy challenges (collecting these would be hugely valuable to the exercise), followed by an informal discussion responding to these challenges. The aim is to promote an international policy dialogue, extending the knowledge gained from the morning session and applying it to DPA concerns and considerations.

John Edwards will chair the afternoon discussion with Ian Kerr's assistance.

16.00 – 16.30 Refreshment break and networking

In-depth Discussion: Encryption and the rule of law: an international conversation

- Authorised access to encrypted communications

14.30 Daniel Therrien, session chair, and Ian Kerr, moderator, will take the stage.

The session will begin with a short pre-recorded introduction to the basics of cryptography by Christopher Parsons.

Daniel Therrien and Ian Kerr will be joined by the panel including Christopher Kuner and Amie Stepanovich and possibly one other (not yet confirmed).

A moderated panel discussion will follow. The session will have a partly structured, partly free flowing discussion amongst the panellists in a roundtable style. The aim to follow a five part structure:

- history of 'crypto wars' (US and global) - and historical developments predating modern encryption
- benefits of encryption
- challenges that encryption poses to deployment and law enforcement
- rebutting those challenges
- legal status (what are the laws; what is being enforced).

The panel will run for about an hour in total allowing leaving at least half an hour for commissioner interventions and discussion.

18.00 John Edwards, ICDPPC Chair, will return to the stage to close the day's proceedings.