EMERGING TECHNOLOGIES AND THE DISTRIBUTED SELF

(NEW) CHALLENGES TO HUMAN DIGNITY SHEILA JASANOFF HARVARD UNIVERSITY DEUTSCHER ETHIKRAT, "HUMAN DIGNITY IN OUR HANDS" BERLIN, JUNE 27, 2018

A DECADE OF ACHIEVEMENT



JAHRESTAGUNG AM 27.-28. JUNI 2018

DES MENSCHEN WÜRDE IN UNSERER HAND

6 Herausforderungen durch neue Technologien

WEITERE INFORMATIONEN & LIVESTREAM

LOOKING BACK AND AHEAD

2001-2002: Stem Cell Debates

• Road not taken: Nationaler Ethikrat

2007 (July): Ethikratgesetz

• §1: Es wird ein unabhängiger Sachverständigenrat gebildet, der die Bezeichnung "Deutscher Ethikrat" trägt.

2018: Points to note

- Gesetz
- Deutsch(er)

Contrast: US presidential commissions and councils

- Not by law
- Not for USA

What is new in the discourse on human dignity?

DIE WURDE DES MENSCHEN IST LINANTAS TBARGTHEORE TISCH ICH APPELLIERE AN DAS ALISWARTIGES AMT, DIE IN DER DELITSCHEN BOT-SCHAFT GEGEBENEN ZUSAGEN EINZUHALTEN BITTE VERWEIGERN SIE NICHT MEINE ANGELE GEN-HEIT WEGEN MEINER NATIO-NALITÄT. ACHTEN SIEBITTE ALIF DAS GLEICHSTELLUNGS-GESETZ



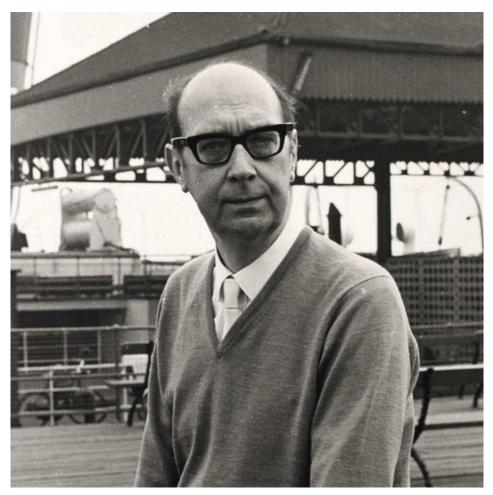
Indignities and Enlightenment

BODILY FINALITY



GOOD FREND FOR LESVS SAKE FORBEARE, TO DIGG THE DVST ENCLOASED HEARE. BLESE BE Y MAN Y SPARES THES STONES AND CVRST BE HE Y MOVES MY BONES.

EXTINCTION AND DEATH



Aubade

The mind blanks at the glare. Not in remorse

—The good not done, the love not given, time

Torn off unused—nor wretchedly because

An only life can take so long to climb

Clear of its wrong beginnings, and may never;

But at the total emptiness for ever,

The sure extinction that we travel to

And shall be lost in always.

ENTER TECHNOLOGY

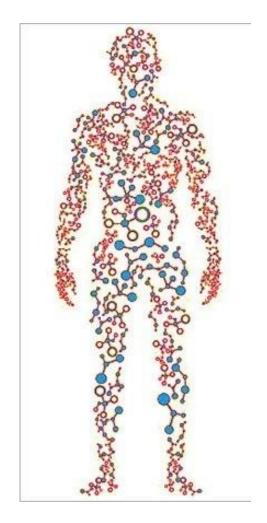
"[T]he convergence of nanotechnology, biotechnology, information technology, and cognitive science can greatly improve human performance over the next ten to twenty years. The chief areas of application include: expanding human cognition and communication, improving human health and physical capabilities, enhancing group and societal outcomes, strengthening national security, and unifying science and education..."

• W. S. Bainbridge, US National Science Foundation, 2003

F.D.A. Restricts Sales of Bayer's **Researchers to Boycott South Korean** Essure Contraceptive Implant **University Over AI Weapons Work** Cambridge Analytica Had a Role in Kenya Election, Too A Brain Implant Improved Memory, **Scientists Report** How a Self-Driving Uber Killed a Pedestrian in Arizona 'Gene Drives' Are Too Risky for Field Trials, Scientists Say 'The Business of War': Google **Employees Protest Work for the** Data Subjects of the World, Unite! Google Tries to Ease Tensions on Eve of New EU Privacy Law **Tesla Says Crashed Vehicle Had Been** Zuckerberg Was Called Out Over Myanmar Violence. Here's His Apology. Human Gene Editing Receives Science Panel's Support

What is the human in an age of enhancement? Are there limits to manipulation? How can we know? Who decides?

OVERLAPPING HUMAN SUBJECTS







THE DISTRIBUTED BODY

Physical

- HeLa cell line
- Catalona tissue collection
- BRCA genes

Spatial

- Biobanks
- "Disease in a dish"

Temporal

- DNA fingerprints
 - Cell lines
 - Digital records

"CONSTITUTIONAL" ISSUES

Definitions and boundaries of the "human"

- Beginnings and ends (life/nonlife)
- Human/nonhuman boundary

Ontological surgery

 Classification in law or policy (e.g., what is an IVF embryo?)

Implications for Entitlements

- Rights
- Dignity
- Property

EXTENSIONS OF LIFE: WITH AND WITHOUT TECHNOLOGY

Trusts

 Property held by one party (trustee) for benefit of others (beneficiaries)

Databases

 Organized collections of data, often designed to model some aspect of reality, such as a disease

Biobanks

Collection of biological materials usually intended for research

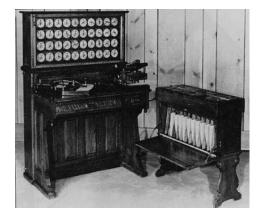
Transhumanism

 Ideas and practices designed to enable life to transcend constraints of human body/bodies

INTIMATIONS OF IMMORTALITY: HENRIETTA LACKS AND REBECCA SKLOOT



OUR INTELLIGENT MACHINES













CC

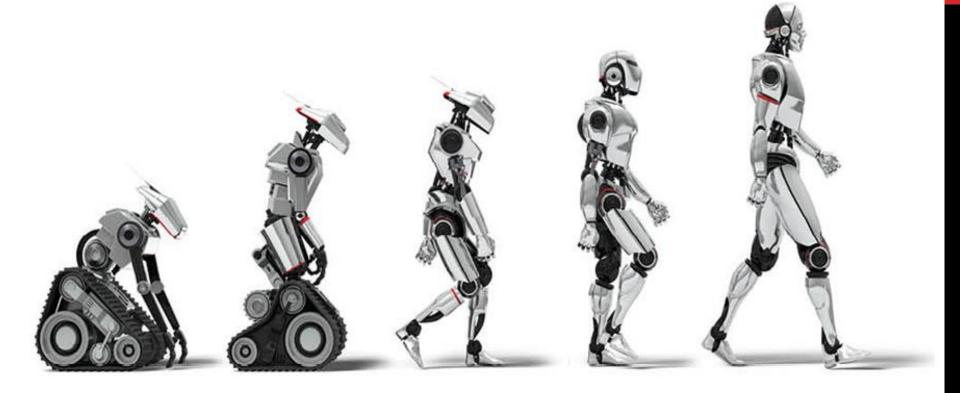
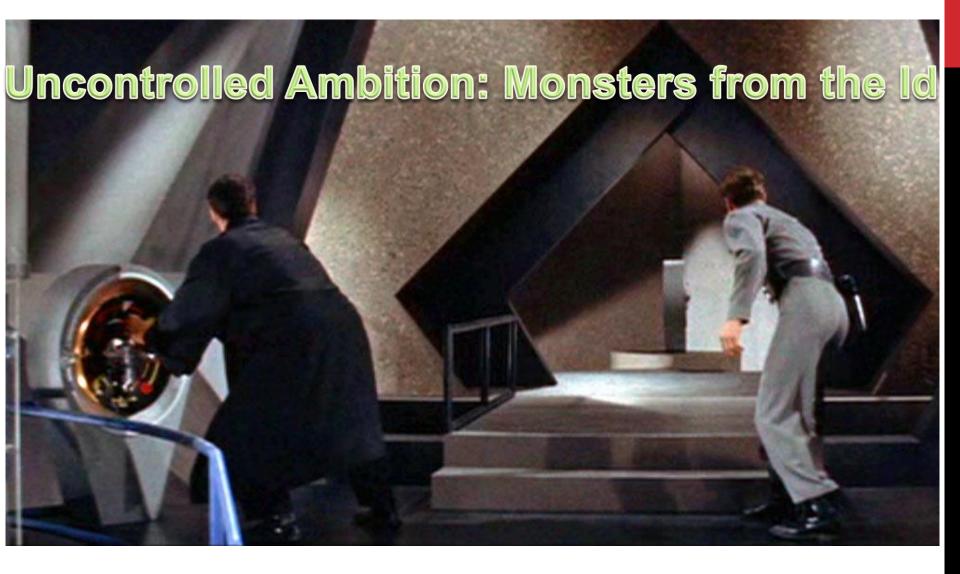


Image: Ryan Etter

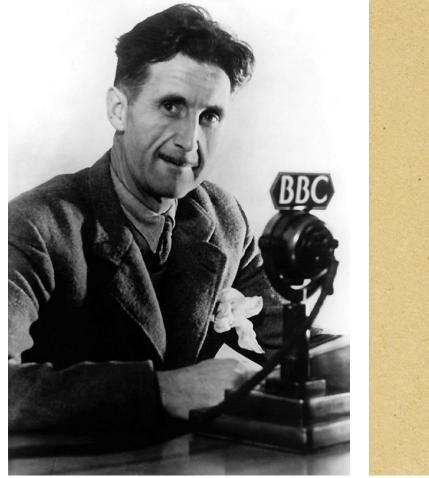
In a pervasívely digitized and mechanized world, how can we reasonably protect human values?

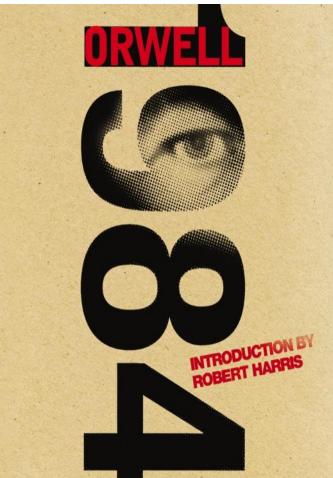
Telling Fictions





SURVEILLANCE: THE 1984 WORLD





Outsmarted

Mr. Clarke, who makes his home in Sri Lanka, said last week that nothing has happened since the making of "2001" to persuade him that his vision was fundamentally wrong. In a telephone interview he said that every capability attributed to HAL -- a system that can speak, listen, reason, criticize human art and at one point even read lips -- has been shown to be at least theoretically possible.

"A lot of people are still arguing about this," he said. "But I have no reason to doubt it."

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THE "DATA SUBJECT"

1995 EU Data Protection Directive

'personal data' shall mean any information relating to an identified or identifiable natural person ('data subject'); an identifiable person is one who can be identified, directly or indirectly, in particular by reference to an identification number or to one or more factors specific to his physical, physiological, mental, economic, cultural or social identity;

2018 GDPR (*General Data Protection Regulation*) on collection and processing of data on individuals



Paul J. Richard | AFP | Getty Images

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GET A WARRANT.

GOOGLE SPAIN



Marion Costeja González 16-year-old story of personal debt Newspaper report came up on name search, affecting reputation **Internet search engine** operator responsible for right of erasure

DIFFERENCES

Viktor Mayer Schoenberger, Oxford (NYT 5-13-2014)

- "More and more Internet users want a little of the ephemerality and the forgetfulness of predigital days."
- "If you're always tied to the past, it's difficult to grow, to change... Do we want to go into a world where we largely undo forgetting?"

Jonathan Zittrain, HLS (NYT, 5-14-2014)

 "How an individual's reputation is protected online is too important and subtle a policy matter to be legislated by a high court, which is institutionally mismatched to the evolving intricacies of the online world."

Behavioral Changes

Thanks to Venmo, We Now All Know How Cheap Our Friends Are

By rendering payments between friends nearly invisible no cash changes hands, no checks are written — Venmo theoretically should make these relationships *less* obviously transactional. Yet not only does it encourage pettiness, distilling the messiness of human experience down to a digitally precise data point, but by making it so easy to pay someone back for purchases as trifling as a coffee, the app arguably promotes the libertarian, every-user-for-himself ethos of Silicon Valley.





"The priest says 'lift up your hearts.' He does not say, 'lift up your cell phones to take pictures,'" Pope Francis said. "It's a bad thing! And I tell you that it gives me so much sadness when I celebrate here in the Piazza or Basilica and I see so many raised cellphones, not just of the faithful, even of some priests and even bishops."

Many pilgrims try to get pictures of the Pope at his audiences

A Place to Deliberate





A global observatory for gene editing

Sheila Jasanoff and J. Benjamin Hurlbut call for an international network of scholars and organizations to support a new kind of conversation.

WHAT IS TO BE DONE?

Against urgency

- "Deliberate speed" (Brown v. Board of Education of Topeka)
- "Slow science"
 - Not a race to a single finish line

Inclusive deliberation

- Voices from the margins
- Disciplines, regions, social groups

Objectives

- Asking the right questions (or asking if the questions are right)
- Radical hospitality
- Cosmopolitan ethics: more than one valid way to analyze what is at stake in the application of such technologies

Thank you!