Faculty think-in: How might Artificial Intelligence transform society?

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Special thanks: PJ Wall
Developing next generation digital technologies that transform how people communicate by helping to analyse, personalise and deliver data more effectively for businesses and individuals.

People and technologies are at the core of ADAPT. Considers potential implications and societal expectations of research & innovation. Fostering responsible research and innovation.
What do we want to achieve today?

Encourage you to think about AI and automation in (hopefully) new ways

Stimulate discussion and sharing about AI

Gather your opinions on AI risks and opportunities ... to direct ADAPT research

Seed new collaborations in DCU

Help build the next generation of responsible researchers and technologists
Workshop Structure

- Introduction
- Scenario discussion in small groups
- Small groups report back
- Larger group discussion
Definitions of AI

A branch of computer science dealing with the simulation of intelligent behaviour in computers

The capability of a machine to imitate intelligent human behaviour

A collection of technologies that combine data, algorithms and computing power
Ethical Principles mapped from EU Charter of Fundamental Rights

International AI Policy Differentiator for EU

Ethical AI, alongside Lawful AI and Robust AI

Requirements

• Human Agency and Oversight
• Technical Robustness and Safety
• Privacy and Data Governance
• Transparency
• Diversity, Non-Discrimination and Fairness
• Societal and Environmental Well Being
• Accountability

IEEE Ethically Aligned Design - 2019

Principles:
• Human Rights
• Well-being
• Data Agency
• Effectiveness
• Transparency
• Accountability
• Awareness of Misuse
• Competence

Comprehensive survey including:
• Classical Ethics
• Affective computing
• Design Methods
• Sustainable development
• Embedding Values
• Policy and Law

https://ethicsinaction.ieee.org/
Now, discussion of the scenarios at each table:

Social Credit System

Driverless Cars

Each table has a rapporteur to facilitate discussions

You have 20 minutes!
Social Credit System

THE GAME OF LIFE

China's social credit system expands the idea of a standard credit check to all aspects of life.

Each citizen is assigned 1000 points, monitored to judge their behavior, and rated accordingly.

- **Rewards**
  - Helping the poor
  - Spreading love
  - Voting fairly

- **Punishments**
  - Not voting
  - Tax evasion
  - Traffic violations

Driverless Cars

Self-Driving

A World Leading SFI Research Centre

DCU Ethics and Privacy Week 2020
Social Credit System

The Game of Life

China's social credit system expands the idea of a standard credit check to all aspects of life. Each citizen is assigned 1000 points, monitored to judge their behavior, and rated accordingly.

Citizens gain points by:
- Donating blood or money
- Engaging in charity work
- Praising the government on social media

Citizens lose points by:
- Not visiting one's aging parents regularly
- Insincere apologies for crimes committed
- Cheating in online games
- Spreading rumors on the internet

Rewards
- Helping the poor

Punishments
Driverless Cars
MIT Moral Machine findings

Preference in favour of sparing characters

- Stroller
- Girl
- Boy
- Pregnant
- Male doctor
- Female doctor
- Female athlete
- Executive female
- Male athlete
- Executive male
- Large woman
- Large man
- Homeless
- Old man
- Old woman
- Dog
- Criminal
- Cat

Preference scale: -0.2 to +0.2
Final Questions

Who is responsible for decisions made by AI?

Is the potential of AI worth the risk?

Is privacy really that important?

What about justice, dignity, transparency?

Are there cultural differences in our acceptance of AI?

Can citizens drive the direction of AI?
M.A. Data Protection and Privacy Law

Duration: 12 months (full-time), 24 months (part-time)

- **Law Stream** and **Computing Stream**:
- Extern: Prof Joe Cannataci Univ Malta/Univ Groningen/UN

- **How to apply:**
  - All applicants should apply through [www.pac.ie](http://www.pac.ie)
  - Course code **DC786** (full-time) and **DC787** (part-time)

- **Course website:**
  - [http://tinyurl.com/y4b9v3up](http://tinyurl.com/y4b9v3up)

- **Contact Details**
  - Chair: Dr. Rob Brennan
  - For all queries, please contact mdpp@dcu.ie
Further Resources

The ADAPT Ethics Canvas – a tool for designers and engineers to brainstorm the ethics implications of their projects

https://www.ethicscanvas.org

The ADAPT Centre

https://www.adaptcentre.ie/