

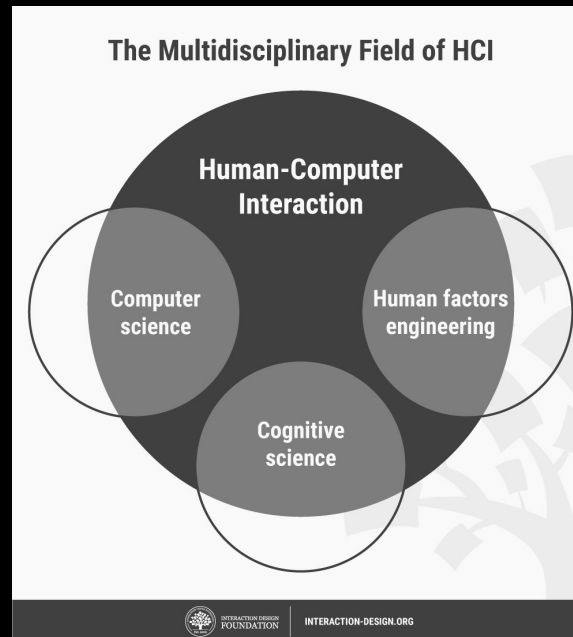


# CURRENT TRENDS IN HCI

**FIT5152 User Interface Design and Usability**  
**Lecture 12**

# HCI AND UX

- HCI tends to be more academic.
- UX tends to be more industry-focused.
- UX draws frequently from findings from HCI.



# DESIGN THINKING

- User-centered methodology.
- Applies iterative process, rapid prototyping and brainstorming sessions
- Main strength: “Thinking outside the box”.
- It is most useful to tackle problems that are not well defined.
- The main steps:
  - Empathy/Context (observing, engaging and empathising with users)
  - Define the problem
  - Ideate (generate many ideas)
  - Prototype
  - Evaluate/Test

**Video** [https://www.youtube.com/watch?v=\\_r0VX-aU\\_T8](https://www.youtube.com/watch?v=_r0VX-aU_T8)

(Culén & Følstad 2014)

# HCI 4 AI

- To design Human AI Interaction, we must understand these systems from a human perspective
- It involves:
  - studying and exploring human interactions with AI assistants
  - Studying ethical aspects and increasing trust and acceptance

Video

# MIXED REALITY WITH HOLOLENS

- Microsoft HoloLens
  - Mixed Reality Blends Holograms with the Real World
- [Video](#)

# AUGMENTED REALITY (AR) GOOGLE ARCORE

- Adding depth to AR experiences.
  - Objects are included in the environment.
  - Remove the copy/paste effect.

Video

# SIMPLE PAPER AS INPUT DEVICE

- A technique using RFID tags to convert a simple paper into a smart input device
- Video

# HUMAN-COMPUTER INTEGRATION

- Closer integration between human and computer.
- Objects communicate dynamic use.
  - By actuating the user; e.g. through muscle stimulation.
- [Video](#)



# INTERACTIVE ADVERTISING

- Coke Summer Interactive OOH (Out Of Home) Panels By Ansible Australia
- [Video](#)



# HCI RESEARCH AT MONASH

- Department of Human-Centred Computing:  
<https://www.monash.edu/it/hcc/research>

An abstract graphic at the top of the slide featuring a wavy, flowing shape with a color gradient from yellow and orange on the left to green and blue on the right, set against a black background.

**THANK YOU AND  
GOOD LUCK IN YOUR EXAMS!**