

# Welcome and Administrative Matters

CZ2004 Human-Computer Interaction

### Lecturers

- Prof MIAO Chunyan (<u>ascymiao@ntu.edu.sg</u>)
  - Course coordinator
  - Research background: intelligent agents, interactive new media
  - Teaching weeks 1-6



- A/P CHAM Tat Jen (<u>astjcham@ntu.edu.sg</u>)
  - Research background: computer vision, pattern recognition, 3D telepresence
  - Teaching weeks 8-13



# **Human–Computer Interaction?**



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<Watch the lecture video recording>

# **Human-Computer Interaction in Movies**

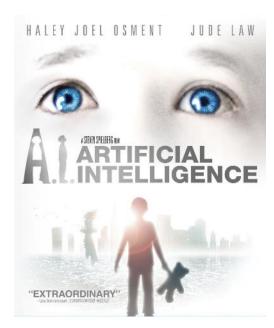


Minority Report, 2002

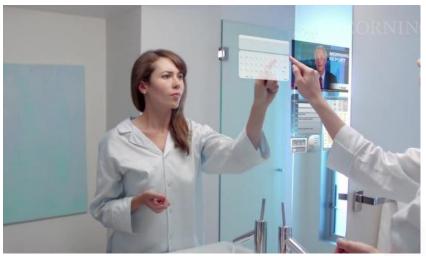
Analysis: <a href="https://vimeo.com/49216050">https://vimeo.com/49216050</a>

A.I. Artificial Intelligence, 2001

Trailer: <a href="https://youtu.be/\_19pRsZRiz4">https://youtu.be/\_19pRsZRiz4</a>



# **Recent Consumer Technologies**



Corning — A Day Made of Glass https://youtu.be/6Cf7IL\_eZ38



Microsoft Hololens https://youtu.be/aThCr0PsyuA



Jibo Social Robot

https://youtu.be/3N1Q8oFpX1Y

### **Course Modules**

- Module 0: Introduction to HCI
- Module 1: Usability
- Module 2: Guidelines, Principles, and Theory
- Module 3: Prototyping and Evaluation
- Module 4: Humans (sensing, perception, etc.)
- Module 5: Human-Computer Interfaces
- Module 6: Interaction and Design Concepts

**Prof Miao** 

**Prof Cham** 

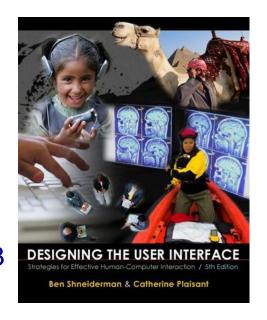
### **Textbook**

#### **Recommended Textbook for Modules 0-3:**

"Designing the User Interface – Strategies for Effective Human-Computer Interaction"

5<sup>th</sup> Edition (2009)

Ben Shneiderman and Catherine Plaisant Pearson/Addison Wesley, ISBN: 0-321-60148-3



#### No specific textbook for Modules 4-6:

Lecture material was extracted from many different books and research articles

You are of course welcome to read widely to learn more about this interesting subject!

### **Schedule**

- Lectures
  - Twice weekly for 13 weeks
    - Tuesdays 4.30pm Venue: LT19
    - Fridays 3.30pm Venue: LT2A
- Tutorials
  - There are 6 tutorial sheets
  - First tutorial starts Week 3
  - Rough tutorial schedule (subject to changes by individual tutors):
     Weeks 3, 5, 8, 10, 12, 13
- E-Learning Week (likely)
  - Week 7
  - Separate material to be covered by self-study
    - consisting of videos and articles (already on NTUlearn)
  - Example classes will carry on as usual

## **Example Classes / Labs**

- There are 5 example class sessions
  - but work mostly done outside sessions
- Venue: Hardware Lab 1 (N4-01a-03) OR Hardware Lab 3 (N4-B1a-05)
- A design scenario will be described, and students will proceed through different stages of design
- There are 3 assignments that count towards coursework marks
  - 1. Sketch a low-fidelity prototype
  - 2. Peer review of prototypes (based on design principles)
  - Mockup a high-fidelity prototype
- Assignment deadlines are 1 week after sessions 2, 3, 5
  - Exclude recess week
- Compulsory attendance at start of sessions 1, 3, 4.
   Optional attendance for sessions 2 and 5.
  - If you are more than 20 minutes late, there will be a marks penalty
  - There are no make-up sessions for absentees
    - If you have an MC or other approved reason, there is no need to replace the session, just submit the assignment.
    - Otherwise a heavy marks penalty will be imposed.
- Lab schedule: go the the NTU MS Exchange public folder:

  https://webmail3.ntu.edu.sg/public/Common%20(Staff%20and%20Student)/School\_xF8FF\_Department/School%20of%20C
  omputer%20Science%20and%20Engineering/2nd%20Year/?Cmd=contents, and look for the latest
  LabSchedule Excel spreadsheet.

# **Assessment Weightage**

- Overall Components
  - Exams: 60%
  - Example Class Assignments: 40%
- Within Example Class Assignments
  - Lo-fi: 45%
  - Review: 15%
  - Hi-fi: 40%
  - (Assessment rubrics are described in example class manuals)
- Coursework Quizzes
  - May be introduced
  - If so:
    - Exams reduced to 50-55% of total, quizzes will take 5-10%, assignments remain at 40%

### **Exams**

- Exam date/time: Monday 21 November 2016 at 9.00am (please verify separately with OAS info)
- Format: 4 questions to be completed in 2 hours
- Coverage: everything!
  - Includes all videos shown in lectures, e-learning material
  - Best way to learn is to attend all the lectures
    - There will be no "revision" lecture
    - Lecturers may emphasize or de-emphasize topics based on time spent on each slide
- Closed book exam
  - Students expected to understand all concepts and recognize terminology
  - **Not** required to memorize lists, tabular information or small details
  - · Won't ask:
    - "Name the 5 usability measures covered in lectures."
    - "What is the average text entry speed for QWERTY keyboards?"
  - May ask:
    - "Why are usability measures important in UI design?"
    - "Explain the term phi phenomenon."

### Reminder...

- We may continue to make minor updates to lecture notes, tutorials and example class manuals
  - Keep checking on NTUlearn for updated materials
  - Check your NTU email box frequently for announcements etc.
- All suggestions are welcome!!!
- Tutorial starts from week 3!!!
- Different lab groups start from different weeks!!! (check your own schedule)