### CSCI 101 Connecting with Computer Science Computerised Society III



Jetic Gū 2020 Fall Semester (S3)



# Overview

- Focus: Social Implication
- Readings: R16
- Core Ideas:
  - 1. The Danger of Computers
  - 2. The Social Responsibilities

P1 Challenges

## Computers are Dangerous! Ahhhhh! I don't want to die!



# Challenges Technological Advancement

- It's always about trade-offs
  - There are always benefits, and harms
  - Balance in the force
    - Maximise benefit
    - Minimise/Adapt to the harms





# **Benefits of Computers**

- Convenience
  - For good people
  - For bad people



### P1 Challenges

# Harms of Computers

- Mental Health Issues Social Media, etc.
- Cyber-attack and Cyber-crimes Alleged Russian interference on US elections, etc.
- Computer fails that lead to physical harm Pacemaker, etc.
- Physical harm caused intentionally by computing machinery Military Drones, etc.



### P1 Challenges

## Ethical Problems and Technical Problems

- Should we have autonomous military drones?
- Should facial recognition technology be used by law enforcement?
- Should we allow political advertisements on the internet?
- Where should we draw the line, between technology and humanity?



**P2** Responsibility

## Moral Questions to Consider Ah, that's cute.







- Are morals quantifiable?
- The trolly problem side track? (Killing Hugh Jackman?)



# A Moral Compass

should Ryan Reynolds pull the lever to divert the runaway trolley onto the



Argument 1

**P2** 

Responsibility

- Argument 2 pushing the lever is murdering Hugh Jackman.
- Argument 3 No. Human do not get to decide others lives.
- What if one of the people is Einstein? Hawkins? Or your loved mum?



No. Committing murder is morally wrong. The trolly is an accident, Ryan







- There is no correct answer.
- What if the lever is controlled by a robot?
  - How will the robot decide?
  - What should the robot do? Should the robot do anything?
  - Is it murder if the robot decide to kill Hugh?



# The Responsibility of the Computer People

P2 Responsibility

- Science is innocent, people are not
- Avoidance (S)
  - Something bad is gonna happen. Somebody else will take care of it. I have nothing to do.
- The Responsibility of Computer People
  - Every human has a social responsibility according to its power and abilities.
  - Do not run away from your responsibilities!

