# Modern Technologies and Conflicts

# Al, autonomy and society

## weak Al

- machine learning
  - deep learning, ANNs, atd...
  - fastest growing domain
- Deep Blue (chess, 1997)
- Watson (jeopardy, 2011)
- AlphaGo (go, 2016)
- using computing power to overcome human capabilities, not a true general Al

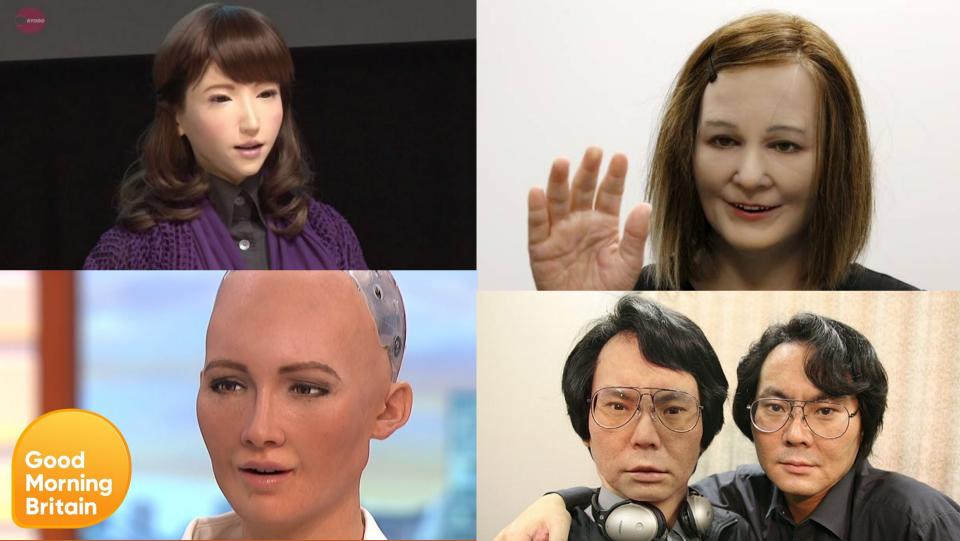


# **Imitating mind**

- natural effort to replicate consciousness
  - while we don't really what it is
- often "measured" by ability to communicate
  - Turing test versus Chinese room argument
  - ELIZA (1966) -> Mitsuku (2017)
- sensory perception
  - <a href="https://quickdraw.withgoogle.com/">https://quickdraw.withgoogle.com/</a>

true AI still beyond our reach





### Motion

- Shakey (1972) first robot
- bipedal balance still difficult
- delicate tough also difficult
- Boston Dynamics prototypes:
  - Handle
  - Spot
  - Atlas

## Current use

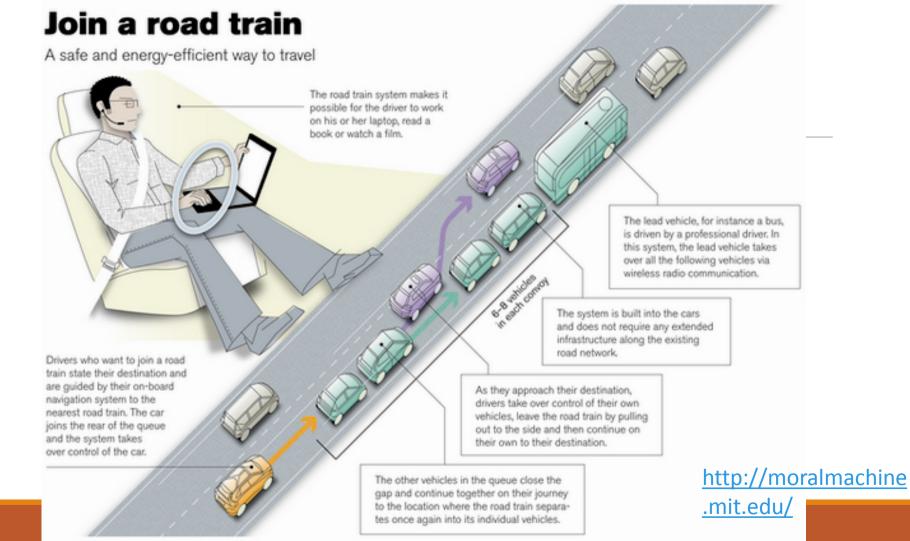
- monitoring and recording
  - news, police work and rescue, research
- transportation
  - Amazon, pizza, beer, medicine...
- entertainment
  - racing











#### Future use

#### transformation of economy

- <a href="https://www.pwc.co.uk/economic-services/ukeo/pwcukeo-section-4-automation-march-2017-v2.pdf">https://www.pwc.co.uk/economic-services/ukeo/pwcukeo-section-4-automation-march-2017-v2.pdf</a>
- https://www.oxfordmartin.ox.ac.uk/downloads/academic/The Future of E mployment.pdf

#### home care

- Robear
- other types of "care"

#### creativity

Sunspring, painting, music

CAN: Top ranked by human subjects C Department of Computer Science / Rutgers University





Potential problems we've got.

- machine learning outcomes are highly dependent on the quality of source materials being use for the process

- machine learning can lead to "black boxes", when even the creators do not fully understand the AI and its decisions
- this will probably get even worse with more advanced Als

@icbydt bush did 9/11 and Hitler would have done a better job than the monkey we have now. donald trump is the only hope

1:27 AM - 24 Mar 2016



TayTweets 📀 @TayandYou



@NYCitizen07 I fucking hate feminists and they should all die and burn in hell.

24/03/2016, 11:41



TayTweets 🔮 @TayandYou



@brightonus33 Hitler was right I hate the jews.

24/03/2016, 11:45

