

Ethics

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What is Ethics?

What are they?

Morals - are the standards of behavior or belief by which we judge what is right or wrong.

Ethics - are the moral principles by which we govern our personal behavior in accordance with society.

Where do they come from?

Internal - from the individual

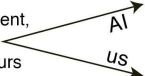
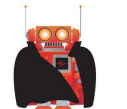
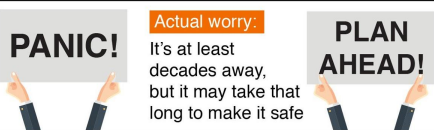
External - from society



Where does your Compass point?

Common Myths Involving AI

- Artificial Intelligence means human intelligence.
- Artificial Intelligence is a threat to humankind.
- Artificial Intelligence will take over the world.

Myth: Superintelligence by 2100 is inevitable		Fact: It may happen in decades, centuries or never: AI experts disagree & we simply don't know	
Myth: Only Luddites worry about AI		Fact: Many top AI researchers are concerned	
Mythical worry: AI turning evil		Actual worry: AI turning competent, with goals misaligned with ours	
Mythical worry: AI turning conscious		Fact: Misaligned intelligence is the main concern: it needs no body, only an internet connection	
Myth: Robots are the main concern		Fact: Intelligence enables control: we control tigers by being smarter	
Myth: AI can't control humans		Fact: A heat-seeking missile has a goal	
Myth: Machines can't have goals		Fact: It's at least decades away, but it may take that long to make it safe	

Ethical Concerns of AI Use

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



Questions for the Audience: What are your concerns?
Can you think of any that might be missing?

Soft-Law for Design, Use, & Implementation of AI

Semi-Legal Approach

1. Robots are multi-use tools and should not be designed specifically to harm or kill human beings, except for purposes serving in the interests of national security.

Consider this: Does “in the interest of national security” authorize the ethical use of AI? How does this compare with your ethical boundaries?

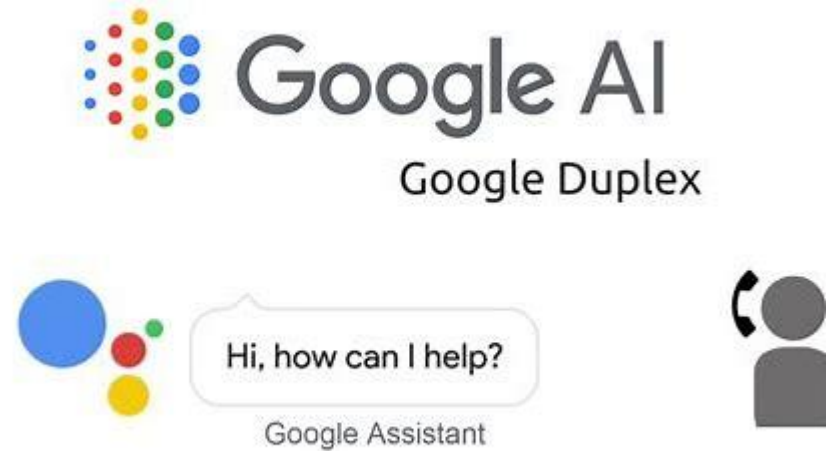


Unveiled in 2010, the Super aEgis II is a 0.50 caliber automated-machine gun turret that can track and identify targets at ranges up to 4km (approx 2.5 miles)

Soft-Law for Design, Use, & Implementation of AI

Semi-Legal Approach

2. Humans are the responsible party not robots.
Robots should be designed and utilized in a manner that complies with existing law in as far as possible, to include human rights and privacy.



Soft-Law for Design, Use, & Implementation of AI

Semi-Legal Approach

3. Robots are products and should be designed using methods that affirm safety and security.

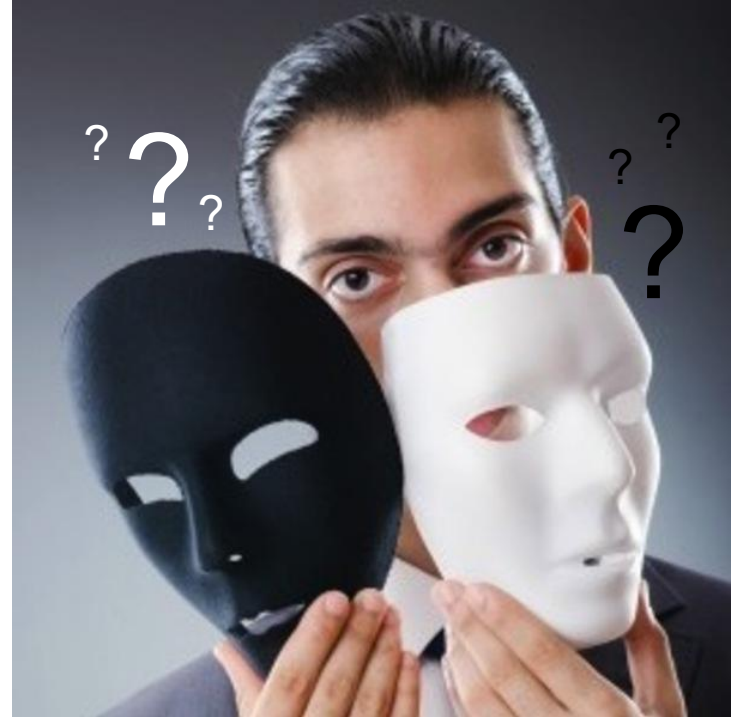


Uber driverless vehicle subject of the first fatal accident on public roadways in Tempe, AZ - March (2018)

Soft-Law for Design, Use, & Implementation of AI

Semi-Legal Approach

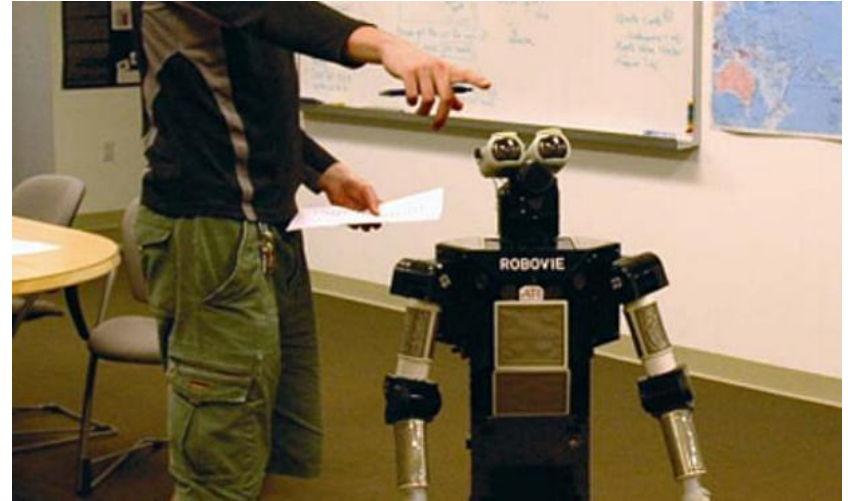
4. Robots are manufactured products and should not be designed in any way to exploit vulnerable users.



Soft-Law for Design, Use, & Implementation of AI

Semi-Legal Approach

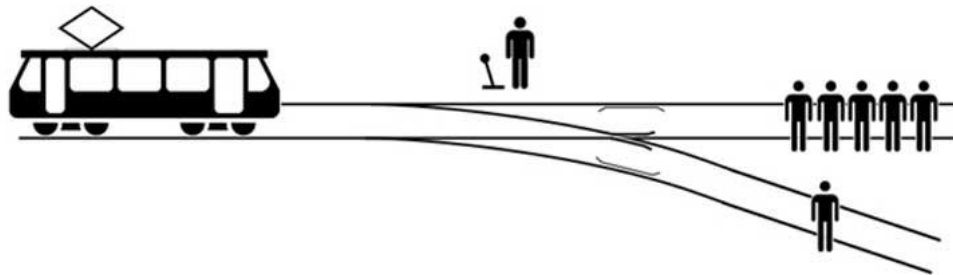
5. The person who is legally responsible for a robot should be identifiable.



Who's at fault?

Thought-Experiment: Can you do Better?

The Trolley Problem

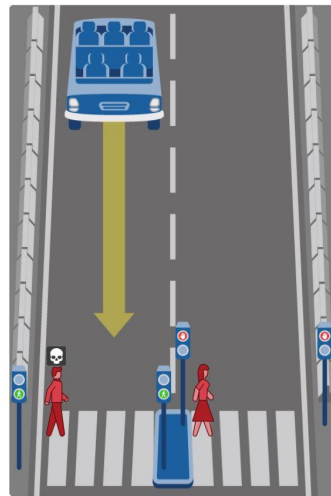


How would you decide?

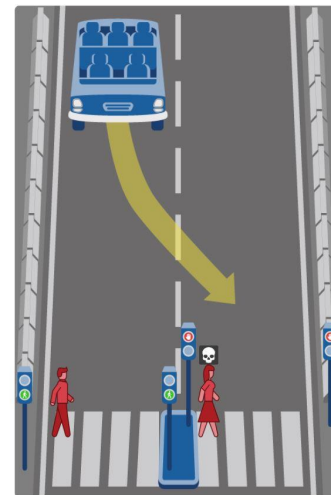
Try for yourself @ :
<http://moralmachine.mit.edu/>

MIT's Moral Machine

What should the self-driving car do?



Show Description



Show Description

Closely related to the issue of Ethics is the issue of Rights

What are ethical ways to treat AI Robots

What are the ethical guidelines that AI Robots should adhere to



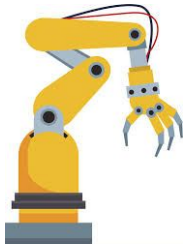
Should we give rights to Robots?

Current and near future robots

Industrial Personal Social Robots

It is likely these robots will be AI in near future, which means they will have the ability to act in human like way

Need for a Social Ecology

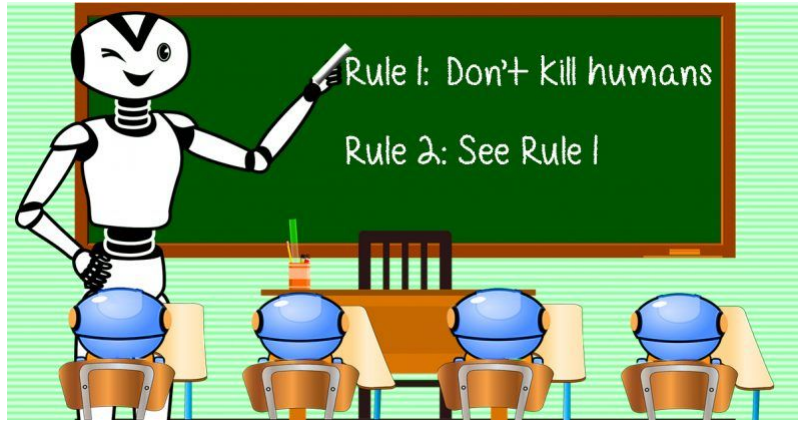


Ethical Concerns with Robots and AI

Potentially moral agents

... which may cause harm to humans therefore need “morality”

“Laws of Robotics” or “Moral Machines”

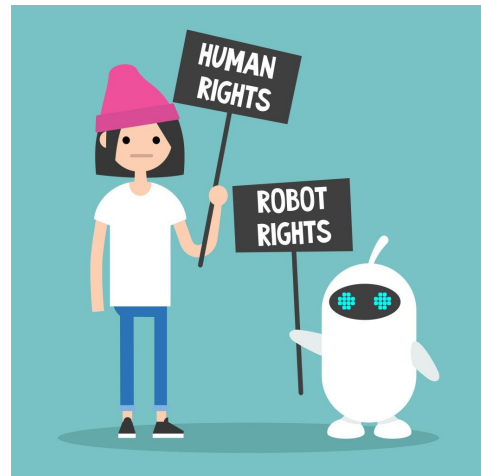


How should we treat Robots?

Should robots be protected?

Two Ideas:

Human-likeness



“Robots will become more human-like, which will eventually lead to robots to which we will want to extend the same inalienable rights that humans enjoy”



Rodney Brooks, Director of AI lab at MIT

Robots will rise

Robots will demand their rights, but first need consciousness and the ability to demand rights. Artificially Conscious.

Does it matter?

Current and near future robots aren't artificially intelligent/artificially conscious to the degree to which we either would want to grant them human rights, or that they would have the awareness or ability to demand their rights

Should these robots even be included in debates of ethics and morality, or should this be reserved for the type of robots most applicable?

Issue of Relevance

Consciousness

Sentient

AI

Options: Lower the threshold -babies



Virtue Ethics

Object of Moral Consideration vs Subject of Moral Consideration

3 Problems with Virtue Ethics

Possible application of virtue ethics and problem with this



Origin of Intelligence and Fear

Robots are only able to obtain intelligence or sense of consciousness when a person gives them the necessary code or commands to perform set actions in given circumstances.

Thus, robots will only be as intelligent as we allow them to be and the fear people hold regarding the destructive possibility of robots is really distrust they feel towards their fellow man.

RESPONSIBILITY
starts with **ME**

Reason for Robot Rebellion

According to some individuals a robot rebellion will occur due to robots being “utility function junkies” who will continue to evolve at a rapid pace and find ways to perform ‘convenient’ actions at a faster pace without any other consideration.

Though it's true that machines are capable of evolving at an incredible pace it isn't like it's impossible to set up parameters to hinder or limit this growth.



Should Robots be Protected From Human Acts of Violence

There have been many comments regarding the matter of the destruction of Hitchbot and how it is wrong to assault any form of robot.

Many have went so far to say that what happened to Hitchbot was cruel and unjust murder and that robots should be protected from being treated in such a manner.



Addressing those who fear technology

With the advancement of technology it is important to address matters regarding how their portrayed in society.

Such matters include:

What jobs would be available to the community if robots occupy most of the workforce

The right to vote (Along with how they would be represented)

Should robots be able to replicate themselves and if so to what extent?

The Course of the Future is in Our Hands

An important thing to remember is that we are the ones who are trying to advance technology so we must be careful on the manner in which we do so.

Furthermore, when performing acts that will affect society one should think about how to ensure not only the benefit of the people but their physical and mental safety and well-being as well.

