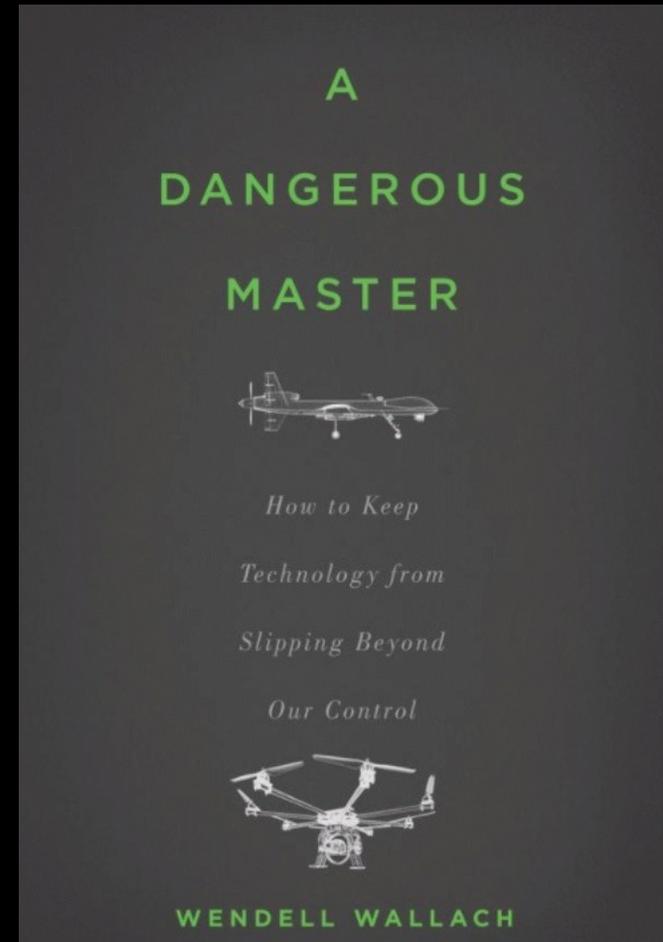Wendell Wallach. *A Dangerous Master: How to Keep Technology from Slipping Beyond Our Control*

Main Themes in Chapters 12 and 13

Don Howard
February 25, 2021

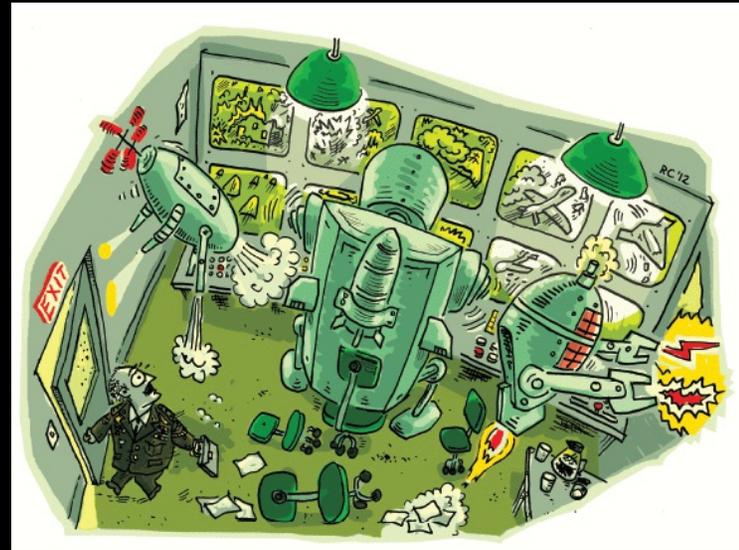Chapter 12, "Terminating the Terminator"

Autonomous Weapons

The 2012 Call for a Total Ban by Human Rights Watch

The Core Argument:

Morality requires emotion.

Computers cannot feel emotion.

Therefore, computers cannot be allowed to make ethical decisions.

LOSING HUMANITY
The Case against Killer Robots

HUMAN RIGHTS WATCH

IHRC | INTERNATIONAL HUMAN RIGHTS CLINIC
HUMAN RIGHTS PROGRAM AT HARVARD LAW SCHOOL

Chapter 12, "Terminating the Terminator"

Autonomous Weapons

The 2015 Call for a Ban on Offensive Autonomous Weapons by the Future of Life Institute

Question:

How do we distinguish between offensive and defensive autonomous weapons?

Artificial intelligence experts call for ban

More than 1,000 artificial intelligence researchers, scientists, and related professionals have signed an open letter issued in Buenos Aires today that calls for a ban on autonomous weapons that select and engage targets without human intervention, thereby swelling the ranks of the rapidly growing global movement to address the weapons. The Campaign to Stop Killer Robots welcomes the call, which is available on the website of the Future of Life Institute.

The letter is being presented today (28 July 2015) at the International Joint Conference on Artificial Intelligence in Buenos Aires, Argentina.

The signatories to the letter include more than 14 current and past presidents of artificial intelligence and robotics organizations and professional associations such as AAAI, IEEE-RAS, IJCAI, ECCAI). They include Google DeepMind chief executive Demis Hassabis and 21 of his lab's engineers, developers and research scientists. Much media attention has focused on the hi-level signatories to the letter, such as Tesla CEO Elon Musk, Apple co-founder Steve Wozniak, Skype co-founder Jaan Tallin, Professor Stephen Hawking, and Professor Noam Chomsky.

Chapter 12, "Terminating the Terminator"

Autonomous Weapons

CCCW Informal Meetings on Autonomous
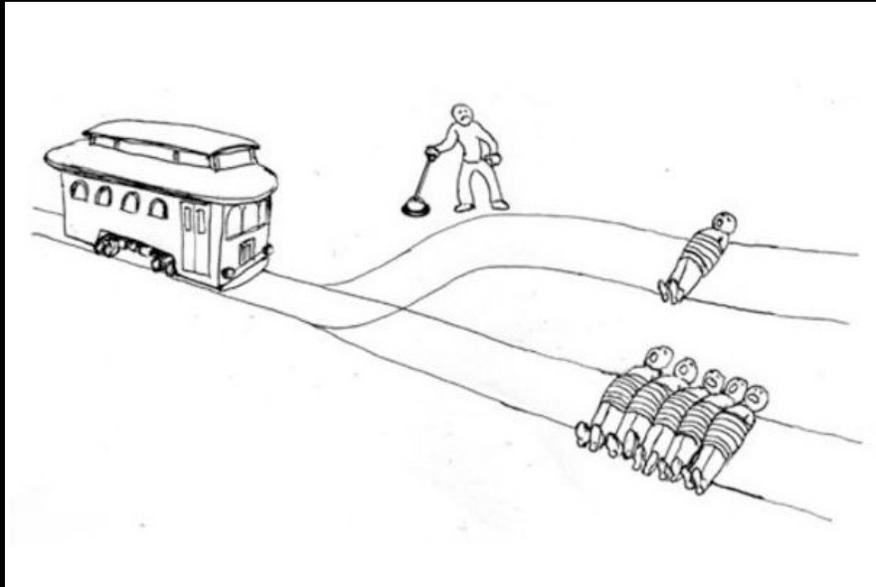Weapons in Geneva, 2014-2019

From a call for a ban to a call for
"meaningful human control."

2015
INFORMAL MEETING
OF EXPERTS ON
LETHAL AUTONOMOUS WEAPONS
SYSTEMS
(LAWS)

Chapter 12, "Terminating the Terminator"

Self-Driving Vehicles

Trolley Problems

Punch the Accelerator on Self-Driving Cars
The technology exists to save millions of lives. So why are regulators hitting the brakes?

By Don Howard And Mark P. Mills
Feb. 20, 2014 7:20 pm ET

In a few years "autonomous drive" could be as common and inexpensive for car buyers as "hybrid drive" is today. Many of the predicate technologies are already in commercial use—adaptive cruise control, anti-lock brakes, rear-collision prevent, self-parallel-parking, rollover stability, pedestrian alerts. And as Google, Ford, Mercedes-Benz and many others have proven with their driverless cars, the enabling information technologies from all-weather "seeing" to GPS and intuitive mapping have matured.

Yet the best we can get out of Washington is an announcement this month by Transportation Secretary Anthony Foxx that the DOT intends to "begin working" on a regulatory proposal to someday require vehicle-to-vehicle communications for crash avoidance. Worse, the National Highway Traffic Safety Administration (Nhtsa), the DOT's regulatory agency, is putting the brakes on the driverless revolution. In 2012, Kevin Vincent, the agency's chief counsel, went so far as to call it "a scary concept" for the public.
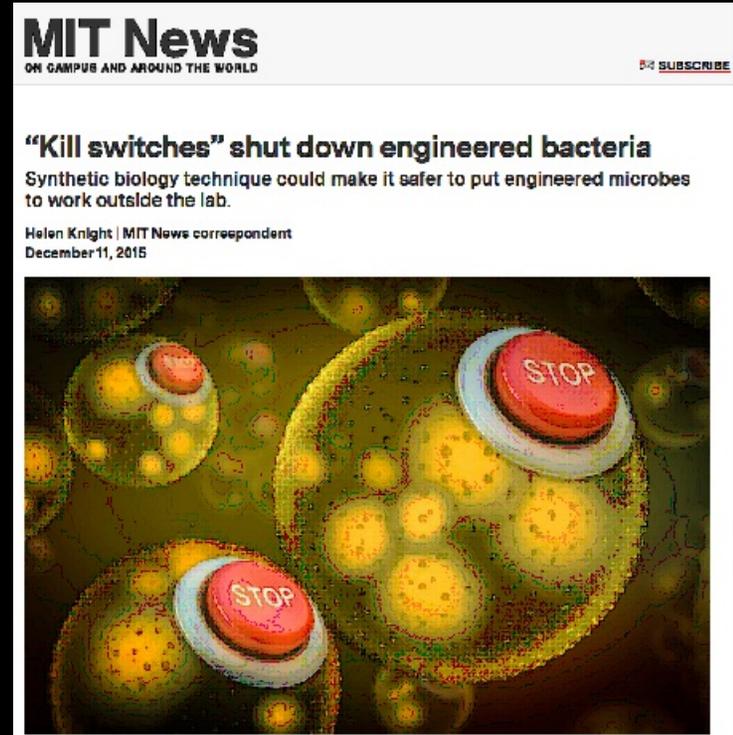
Chapter 12, "Terminating the Terminator"

Service Robots

Chapter 13, "Engineering for Responsibility"

• Kill Switches

MIT News
ON CAMPUS AND AROUND THE WORLD

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"Kill switches" shut down engineered bacteria

Synthetic biology technique could make it safer to put engineered microbes to work outside the lab.

Helen Knight | MIT News correspondent
December 11, 2015

Chapter 13, "Engineering for Responsibility"

• Kill Switches

• Value-Sensitive Engineering

Chapter 13, "Engineering for Responsibility"

• Kill Switches

• Value-Sensitive Engineering

• Moral Machines

Moral Machines

Teaching Robots Right from Wrong

Wendell Wallach • Colin Allen
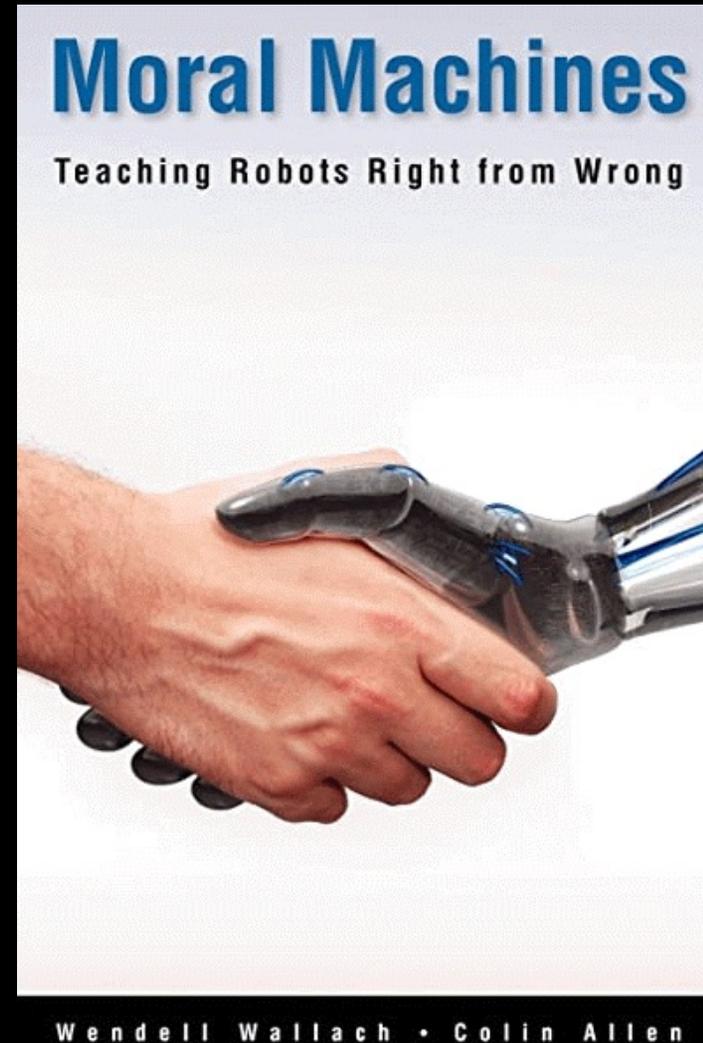
Chapter 13, "Engineering for Responsibility"

• Kill Switches

• Value-Sensitive Engineering

• Moral Machines

• Resiliency Engineering and Complexity
   Management