

Week 6: Common Ground, Cliff Nass, HF and HCII

Illah Nourbakhsh



Illah Nourbakhsh

This week - reminder

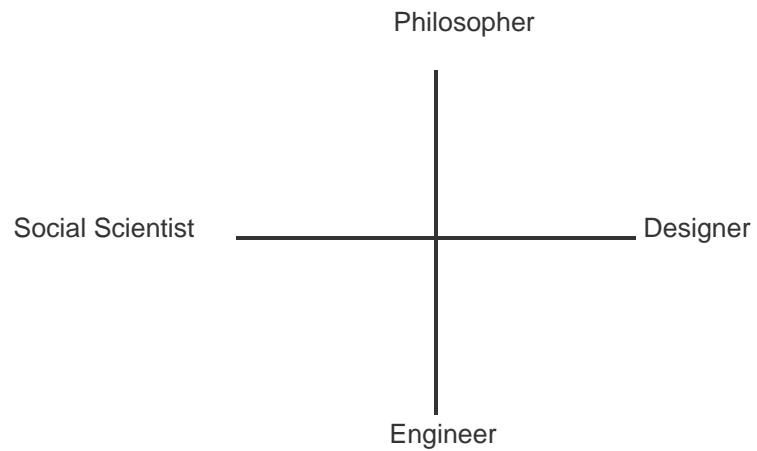
2 days for research presentations; ordering:

Day 1 (oct 7): A1, GUI Obso, Lemonade, TBD

Day 2 (oct 12): CEILO, Halt, HAL, Candy

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HRI and its creators



Cliff Nass: Can robots be teammates?

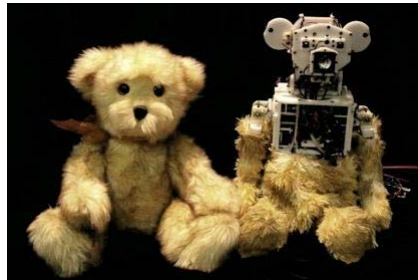
Are animals teammates?

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Cliff Nass: Can robots be teammates?

Are animals teammates?

How are robots different from animals?



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Kiesler: Elements of Common Ground

Least collaborative effort

Automaticity of social heuristics

Implicit mental modeling

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Jibo



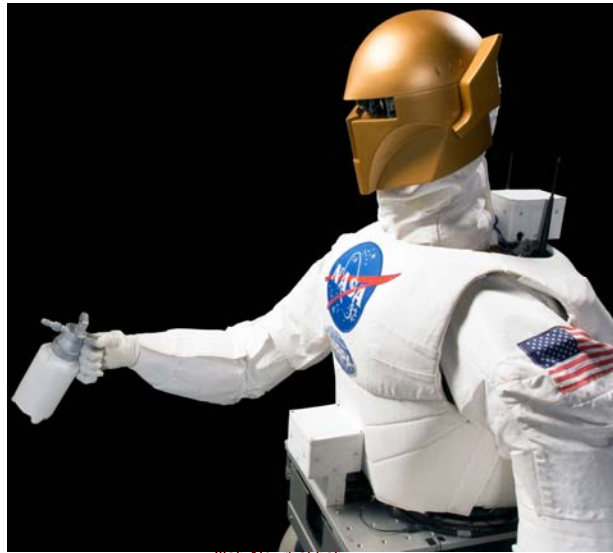
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HRI - ramifications

“Scassellati has argued that a humanoid robot needs to have a theory of mind...we argue that an interactive robot should have a theory of common ground and should incorporate action plans that will achieve common ground with people.”

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Robonaut



Ilian Nourbakhsh

Robonaut in ISS



Preview of where we're headed...

Dis-parity between machines and humans

Illah Nourbakhsh



This Cyborg is Not a Man. Yet.



He maintains that his avatars would not just end world hunger — because a machine needs maintenance but not food — but that they would also usher in a more peaceful and spiritual age, when people could stop worrying about the petty anxieties of day-to-day living.

2045 Strategic Social Initiative
EMROLLMENT 33741 MEMBERS
Join us

Immortality Button
Click this button to start the development of your personalized immortal avatar

Global Future 2045
New York, June 15-16, 2013

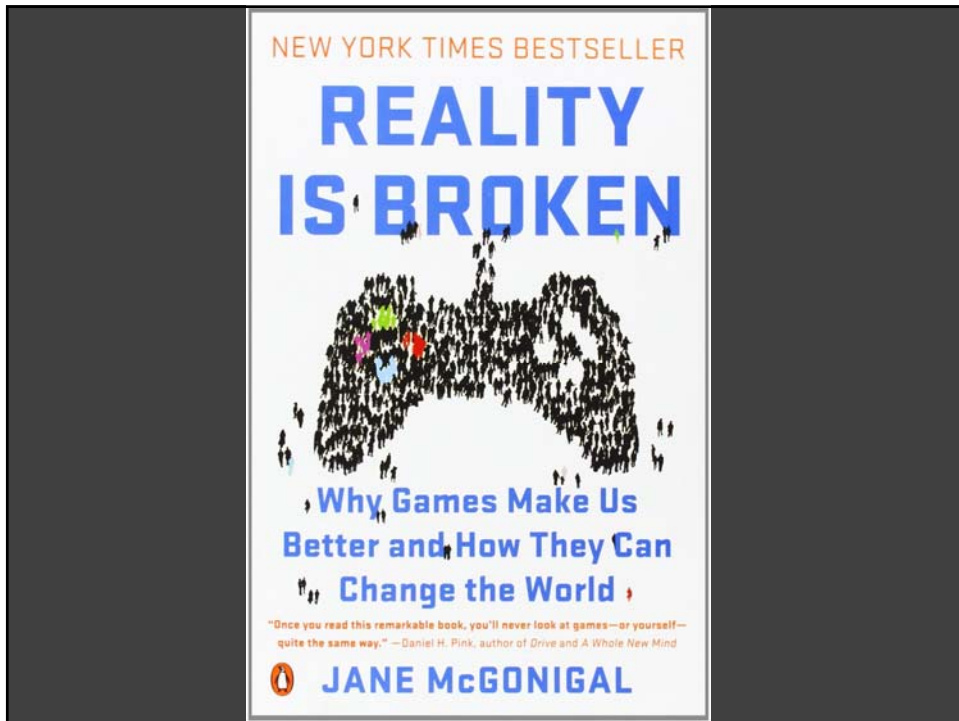
2045 AVATAR PROJECT MILESTONES

- Avatar D 2040 - 2045
A hologram-like avatar
- Avatar C 2030 - 2035
An Avatar with an artificial brain to which a human personality is transferred at the end of one's life
- Avatar B 2020 - 2025
An Avatar which is human brain is transferred at the end of one's life
- Avatar A 2015 - 2020
A robotic copy of a human body (remains connected to the brain)

DNA nanobots deliver drugs in living cockroaches

DARPA's New Biotech Division Wants To Create A Transhuman Future

The path to neo-humanity as the foundation of the ideology of the "Evolution 2045" party



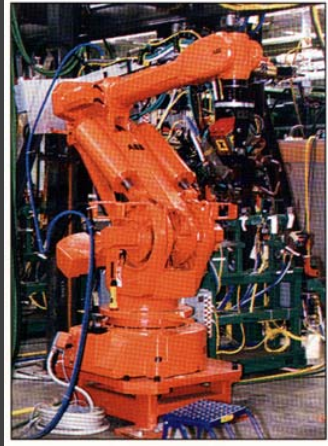


No fundamental barriers lie ahead to building machines that "can outperform human soldiers in the battlefield from an ethical perspective."



"Guilty people change their behavior in response to their actions."

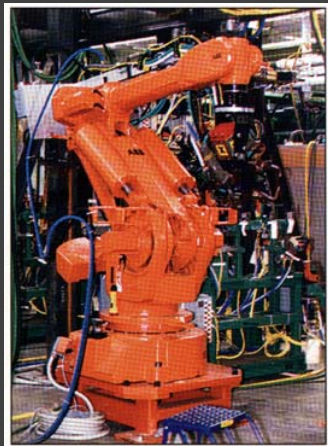
"Introducing moral robots onto the battlefield..."



Robots are generally used in positions better suited to robots..

People are designed to use their minds.

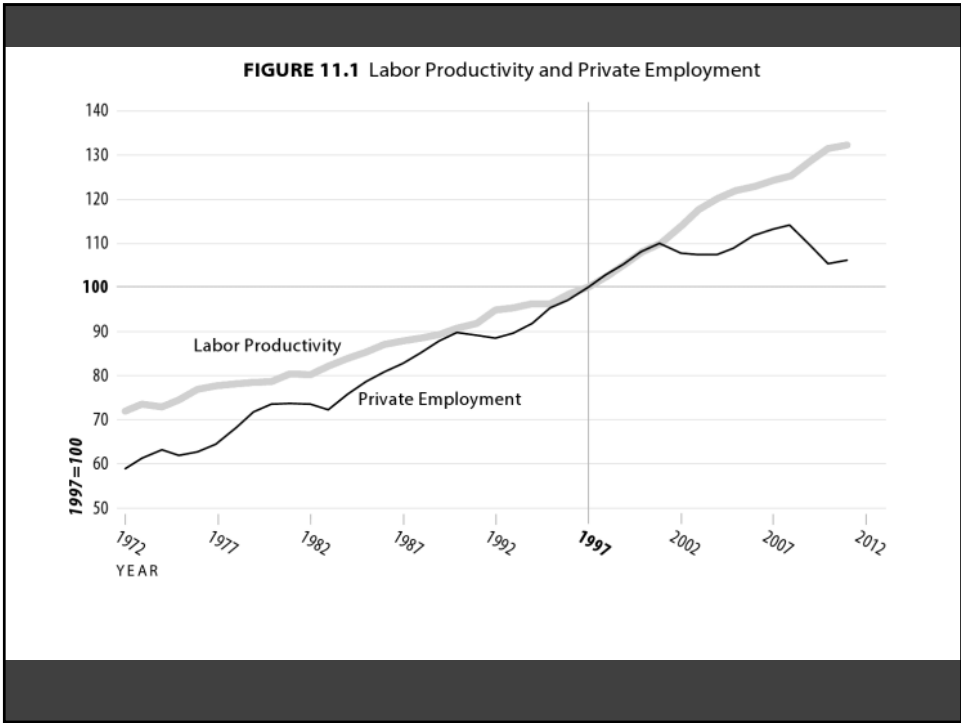
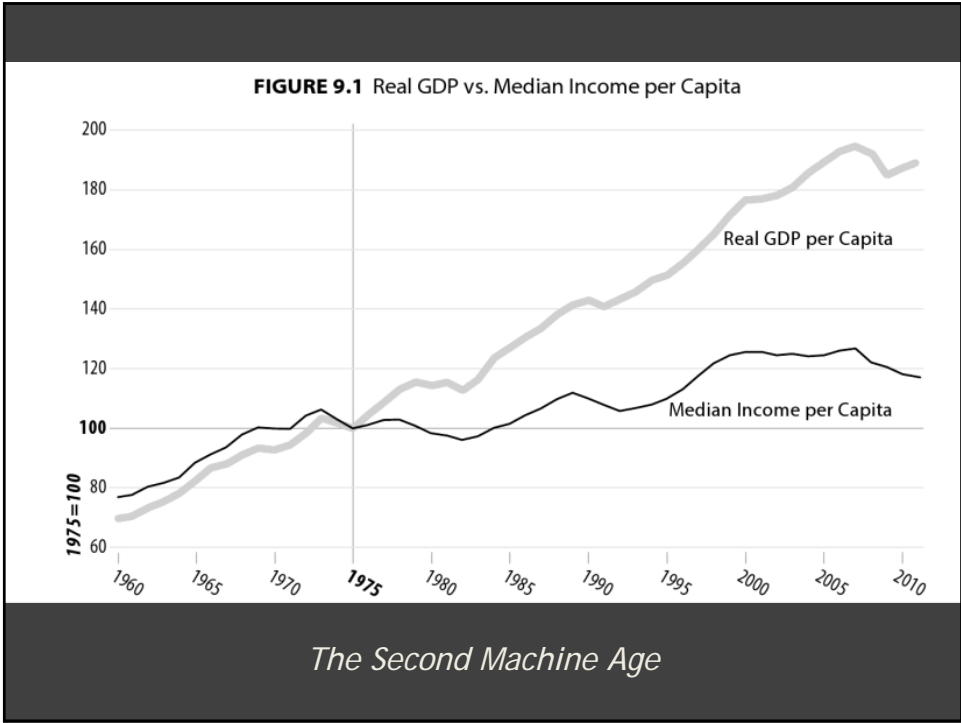
- John Dulchinos, Adept

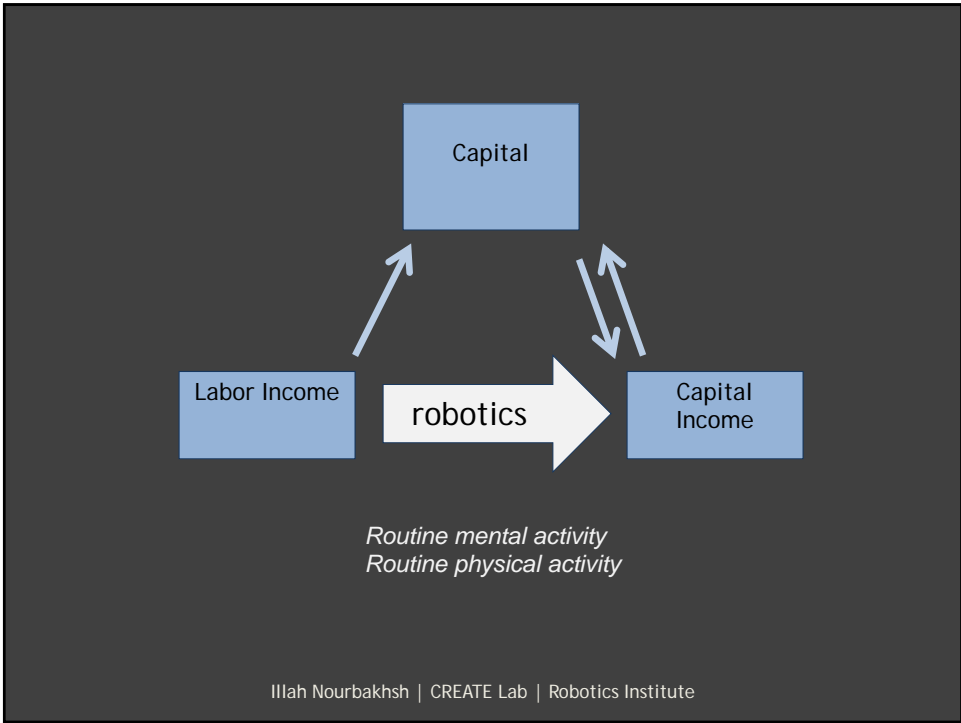
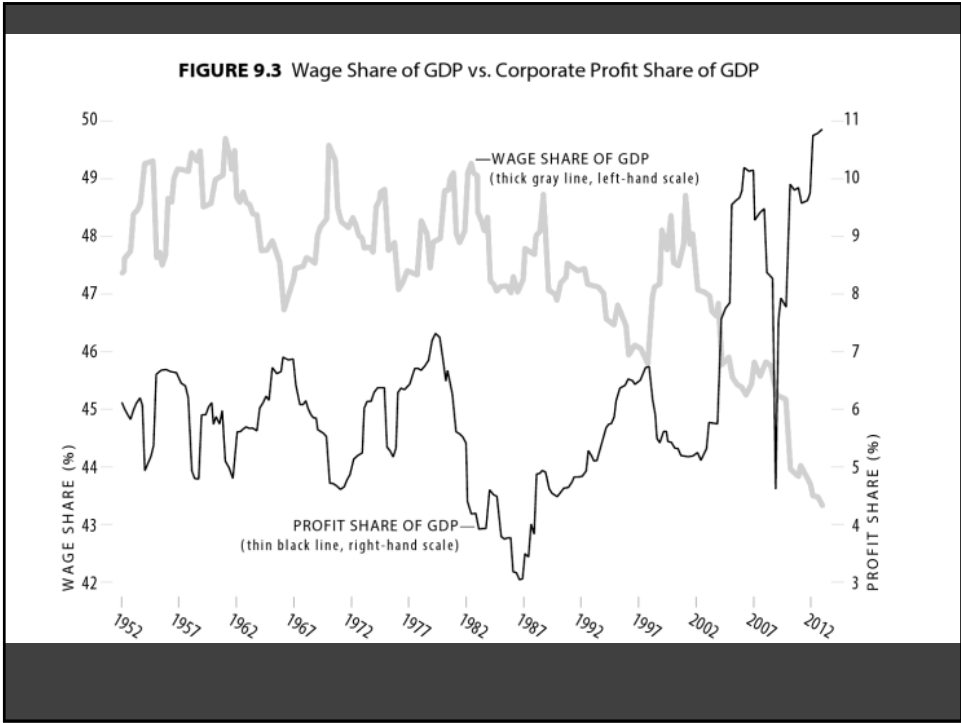


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- John Dulchinos, Adept





Shunde, China



www.nytimes.com/2015/04/25/technology/robotica-cheaper-robots-fewer-workers.html?_r=0

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TECHNOLOGY | ROBOTICA EPISODE 1

Cheaper Robots, Fewer Workers

By THE NEW YORK TIMES 4/25/15 4:00 PM

VIDEO: THE WORK FORCE

VIDEO: THE FIGHTER

VIDEO: THE CUBING

VIDEO: THE LOVER

VIDEO: THE COURTSHIP

VIDEO: THE EMPLOYER

China faces rising labor costs and a shortage of workers. But a government project called "replacing humans with robots" is trying to change the face of the work force in Guangdong Province. by Jason M. Kendall and Tang Jieming on April 24, 2015. Photo by Jason M. Kendall/The New York Times.

This is the first episode in a *BBC* video series, called *Robotica*, examining how robots are poised to change the way we do business and conduct our daily lives.

Faced with an acute and worsening shortage of blue-collar workers, China is making to develop and deploy a wide variety of robots for use in thousands of factories.

Waves of migrant workers from the countryside filled China's factories for the last three decades and helped make the nation the world's largest

Microsoft Cloud

Cheaper Robots, Fewer Workers

By THE NEW YORK TIMES APRIL 24, 2015



■ NOW PLAYING
The Work Force



■ COMING MAY 6
The War Fighter



■ COMING MAY 20
The Cyborg



■ COMING MAY 27
The Lone*



■ COMING JUNE 3
The Confidant



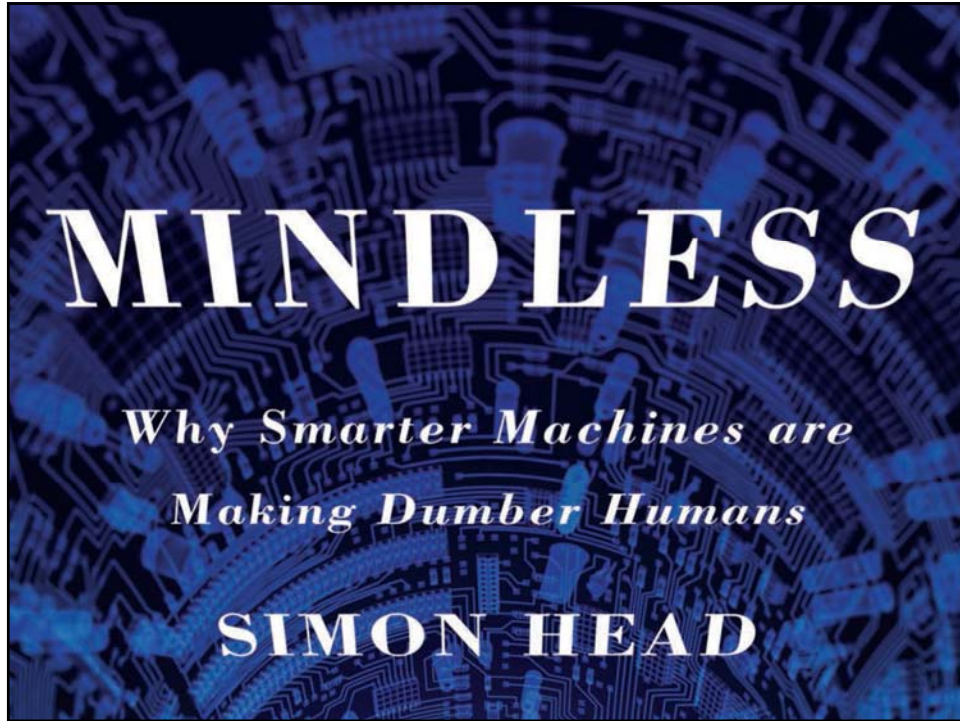
■ COMING JUNE 17
The Enforcer



China faces rising labor costs and a shortage of workers. But a government project called "replacing humans with robots" is trying to change the face of the work force in Guangdong Province. By Jonah M. Kessel and Taiga Jensen on April 24, 2015. Photo by Jonah M. Kessel/The New York Times.

Current migrant workers born in the 1980's or 1990's, their endurance and hard working spirits are inferior to the older generations.

are inferior to the older generations.





Over the Mountains
Of the Moon,
Down the Valley of the Shadow,
Ride, boldly ride,"
The shade replied--
"If you seek for Eldorado!



