

**Politics of Cyberspace
@ JCOGS**

Robotics

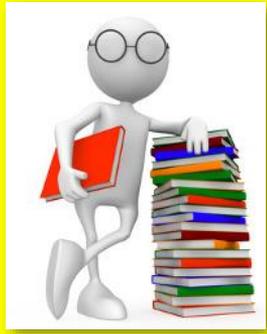
M. E. Kabay, PhD, CISSP-ISSMP
Professor of Computer Information Systems
School of Business & Management
College of Professional Schools
Norwich University

1

Copyright © 2018 M. E. Kabay. All rights reserved.

Topics

- Definitions
- Robots in Literature
- Robots in Movies
- Robots in Industry
- Robots & War
- Robots & Eldercare
- Robots & Sex
- For Further Reading



2

Copyright © 2018 M. E. Kabay. All rights reserved.

Definitions

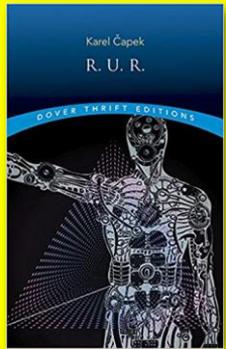
- A *robot* is defined as
 - ❑ “a device that automatically performs complicated often repetitive tasks”
 - ❑ Origin: Czech *robota*: compulsory labor
- An *android* is
 - ❑ “a machine that looks like a human being and performs various complex acts (as walking or talking) of a human being”

3

Copyright © 2018 M. E. Kabay. All rights reserved.

Robots in Literature (1)

- First published in Karel Čapek's play, “*R.U.R.: Rossum's Universal Robots*” (1921)
 - ❑ Robots start off as smart labor
 - ❑ Eventually dominate humanity



4

Copyright © 2018 M. E. Kabay. All rights reserved.

Robots in Literature (2)

- Isaac Asimov (1920-1982)
 - ❑ *I, Robot* (1950)
 - ❑ *The Rest of the Robots* (1964)
 - ❑ *The Complete Robot* (1982)
 - ❑ *Robot Dreams* (1986*)
 - ❑ *Robot Visions* (1990*)



*Posthumous

5

Copyright © 2018 M. E. Kabay. All rights reserved.

Asimov's Three Laws of Robotics

1. A robot may not injure a human being or, through inaction, allow a human being to come to harm.
2. A robot must obey the orders given it by human beings except where such orders would conflict with the First Law.
3. A robot must protect its own existence as long as such protection does not conflict with the First or Second Laws.

6

Copyright © 2018 M. E. Kabay. All rights reserved.

Robots in Movies (1)

- *Metropolis* (1927)
- <http://tinyurl.com/ycsvdybn>

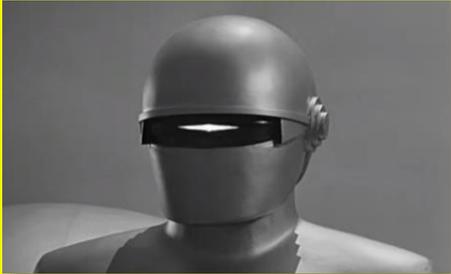


7

Copyright © 2018 M. E. Kabay. All rights reserved.

Robots in Movies (2)

- *The Day the Earth Stood Still* (1951)
- <http://tinyurl.com/y7no4rb7>



8

Copyright © 2018 M. E. Kabay. All rights reserved.

Robots in Movies (3)

- *Forbidden Planet* (1956)
- Trailer (1:33)
- <http://tinyurl.com/mqpcrla>



9

Copyright © 2018 M. E. Kabay. All rights reserved.

Robots in Movies (4)

- *Terminator* series (1984 ff)
- Robots have taken over the world by 2029
- Skynet sends back assassin androids
- Trailer from 2015 film
- <http://tinyurl.com/n92gu6o>



10

Copyright © 2018 M. E. Kabay. All rights reserved.

Robots in Movies (5)

- Commander Data from *Star Trek Next Generation* (1987)
- <http://tinyurl.com/y7q2ldpt>



11

Copyright © 2018 M. E. Kabay. All rights reserved.

Robots in Industry (1)

- *What happens inside those massive warehouses?* TEDxBoston 2011
- Abstract: We make millions of online purchases daily, but who (or what) actually puts our items into packages? In this talk, Mick Mountz weaves a fascinating, surprisingly robot-filled tale of what happens inside a warehouse.
- <http://tinyurl.com/y97x42x5>



12

Copyright © 2018 M. E. Kabay. All rights reserved.

Robots in Industry (2)

➤ Weed-picking robot takes top prize at robotic farming competition

- CBC (2018)
- <http://tinyurl.com/y8xn5ozi>



13

Copyright © 2018 M. E. Kabay. All rights reserved.

Robots in Industry (3)

➤ Are droids taking our jobs?

- TedXBoston (2012)
- Abstract: Robots and algorithms are getting good at jobs like building cars, writing articles, translating – jobs that once required a human. So what will we humans do for work? Andrew McAfee walks through recent labor data to say: We ain't seen nothing yet. But then he steps back to look at big history, and comes up with a surprising view of what comes next.



- <http://tinyurl.com/kpl2cft>

14

Copyright © 2018 M. E. Kabay. All rights reserved.

Robots & War (1)

➤ Military robots and the future of war

- TED2009
- Abstract: In this powerful talk, P.W. Singer shows how the widespread use of robots in war is changing the realities of combat. He shows us scenarios straight out of science fiction -- that now may not be so fictitious.



- <http://tinyurl.com/ydgtb2g4>

15

Copyright © 2018 M. E. Kabay. All rights reserved.

Robots & War (2)

➤ The kill decision shouldn't belong to a robot

- TEDGlobal 2013
- <http://tinyurl.com/yczlcqex>



16

Copyright © 2018 M. E. Kabay. All rights reserved.

Robots & Eldercare (1)

➤ The soft side of robots: elderly care

- Financial Times (2016)
- <http://tinyurl.com/ya7z7pow>



17

Copyright © 2018 M. E. Kabay. All rights reserved.

Robots & Eldercare (2)

➤ Can robots take care of the elderly?

- BBC (2017)
- <http://tinyurl.com/y6umcvht>



18

Copyright © 2018 M. E. Kabay. All rights reserved.

Robots & Eldercare (3)

- How robots can enhance the lives of Europe's elderly citizens
- Euronews Knowledge (2017)
- <http://tinyurl.com/y9975tvj>



19

Copyright © 2018 M. E. Kabay. All rights reserved.

Robots & Sex (1)

- Hot Robot At SXSW Says She Wants To Destroy Humans
- CNBC (2016)
- Abstract: Robotics is finally reaching the mainstream and androids – humanlike robots – are everywhere at SXSW. Experts believe humanlike robots are the key to smoothing communication between humans and computers, and realizing a dream of compassionate robots that help invent the future of life.
- <http://tinyurl.com/zrueeu8>



20

Copyright © 2018 M. E. Kabay. All rights reserved.

Robots & Sex (2)

- Stephen Colbert's Cyborgasm: Intelligent Sex Robots Edition (2018)
- <http://tinyurl.com/y87hxa8p>



21

Copyright © 2018 M. E. Kabay. All rights reserved.

Robots & Sex (3)

- Meet Harmony the Sex Robot
- VICELAND (2018)
- <http://tinyurl.com/yarv3efv>



22

Copyright © 2018 M. E. Kabay. All rights reserved.

Robots & Sex (4)

- Sex robot brothel planned for Houston and some people aren't happy
- ABC13 Houston
- <http://tinyurl.com/yb4phut7>

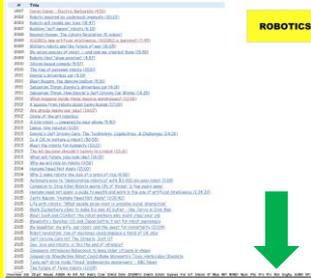


23

Copyright © 2018 M. E. Kabay. All rights reserved.

For Further Reading

- CS407 Weekly Resources – click RBT page
- <http://tinyurl.com/yc5fckud>



24

Copyright © 2018 M. E. Kabay. All rights reserved.

