

Ethics artificial intelligence



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Rabbi Loewinvents the Golem, and artificial man made out of clay

Pascalcreated the first mechanical calculator

Wolfgang von Kempeleninvented fake chess playing machine, The Turk

The Turk... thenDeep Blue

Watson

Karel Kapekcoins the word robot

Alan TuringProposes Turing Test

(Test to see if talking to a computer or person)

Broke Nazi code

John McCarthycoins a phrase " artificial intelligence"

Joseph Weizenbaumcreates ELIZA one of the earliest chatterbots

Shakeythe robot combines movement, perception and problem solving

Herb Simon wins Nobel PrizeBrings legitimacy to Artificial Intelligence

ALVINN" autonomous land vehicle in a neural network"

precursor to google car

1997 event: Deep Blue defeats Garry Kasparov

Russian Grand Master lost in chess to deep blue

AI is generally thought to be

TWOA robot which acts, feels, and functions like a human being

A software which has human-like (although 'cold') intelligence

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Current Applications AI Learning Software

Robotics

Recognition Software

Traditional SW

Learning SW Traditional SW does what it is told

Learning SW learns new ways to do things

Recognition Software types and name Voice

Eye

Palm

Biometric Device

Negative of AI privacy and false hits

Three rules of robotics A robot shall never harm a human being

A robot shall obey a human being (if not contradictory with one)

A robot shall protect itself (if not contradictory with one or two)

Cyborgsman and machine

Superhuman (ubermensch F. Nietzsche) Over time man will evolve into a superior race

Hardest task in a robot Recognizing a face

recognizing an emotion

Who does AI Computer Science

Psych

Linguistics

Philosophy

We are moving from the age of scientific discovery to the age of Scientific

Mastering

Computer Technology powers double every 18 months

80s

90s

Now PC

www

Ubiquitous

We are moving from being creators of machine intelligence to creators

of intelligent machines

Narrow AI Programs that replace a specific human task

Cruise Control

Assembly Line

The key for the future of robots is that they display emotion

What does Asimov compare AI to? A loaded gun

What are the doctors at Cleveland Clinic doing? Deep brain stimulation

Nickname for deep brain stimulation? Brain Pacemaker

Deep Brain Stimulation is used to treat Parkinson's, Depression

In the Future

Alzeihmers

Assistive Device for deep brain stimulation Functional MRI

First country to establish robotic laws Japan

Singularity when computing power exceeds man's thinking power

Ray Kurzweil Coined Phrase singularity

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