



Some of the big questions of AI philosophy...

What is AI, really?

- What does an intelligent system look like?Does an AI need—and can it have—emotions,
- consciousness, empathy, love?

Can we ever achieve AI, even in principle?

How will we know if we've done it?

If we can do it, should we?



Strong AI hypothesis:

Machines can be created that will actually think (rather than simulate thinking)

Weak AI: Turing Test

Alan Turing, 1950: (http://www.loebner.net/Prizef/TuringArticle.html)

"I propose to consider the question, 'Can machines think?'"



Weak AI: Turing Test

Turing predicted: by 2000, a computer could be programmed to pass the Turing Test (for a 5 minute test) 30% of the time



Jabberwacky

Uses real user conversation to learn responses.

http://www.jabberwacky.com/



That our computers have seduced us has long been a truism. Now, thanks to the everinventive internet mafia, it is becoming a literal truth. Russian cyber-crooks have reportedly unleashed a software robot, or bot, that poses as a would-be paramour in sex chatrooms. It entices randy gentlemen to reveal personal information, such as their address or birthday, or even to submit photographs of themselves. The information can then be used to break into bank accounts or carry out other forms of fraud.

It was probably inevitable. As one of Tony Soprano's sidekicks observed in a classic episode of the TV series, the two most resilient sectors of the economy are organised crime and "criatin aspects of showbusiness". The aspects, that is, known as the world's oldest profession - now mixing it with the world's newest technologies.

CyberLover, as the dirty-mouthed bot is called, is quite a sophisticated piece of software. It can take on a number of different guises depending on the prodivities of its target, according to security experts at the software company PC Tools. It can play the role of a romantic lover, for instance, or masquerade as a sexual predator.

http://www.guardian.co.uk/technology/2007/dec/13/internet.crime

Can we ever achieve AI?

Can we ever achieve AI? Magnent of disability: "hey, there are lots of things that computer can't do." "Be kind, resourceful, beautiful, friendly, have initiative, have as something really new."

Some successes What are some human-oriented tasks that computers can do better than people? Play chess, checkers and other game Inspect parts on assembly lines Check the speeling of text Steer cars and helicopters Diagnose diseases

Do hundreds of other tasks as well as or better than humans
Computers have made small but significant discoveries in astronomy, math, chemistry, mineralogy, biology, computer science, and other fields





Strong Al

Can machines really think?

What does it mean to think?

Do we have to have a brain to have a mind? to think?



Could you tell the difference?



"brain in a vat" experiment

Moravec (robotics researcher/functionalist) is convinced that his consciousness would remain unaffected

Searle (philosopher and biological naturalist) is equally convinced his consciousness would vanish











http://www.smbc-comics.com/index.php?db=comics&id=1879





Creative

Having the ability or power to create: Human beings are creative animals.

Productive; creating.

Characterized by originality and expressiveness; imaginative: creative writing.

How do people write stories?



Say Anything

Corpus based story telling

http://sayanything.ict.usc.edu/SayAnything/

http://people.ict.usc.edu/~gordon/publications/ICIDS09.PDF

Can Computers Understand and Express Emotion?



HCI

Cliff Nass

Example human-human situation

- . Someone tries to give you help and their timing is bad,
- · you try ignoring then frowning or glaring,
- an intelligent person picks up on that feedback, interprets what it means, and acts accordingly (backs off)

Analogous human computer situation

- So if a computer tries to give you help at a bad time (aka clippy),
 - · you try to ignore it and then frown or glare
 - An intelligent systems would receive that signal, interpret that signal, and react appropriately



- Detect it?
- Express it?













