

**Agenda:** wrap-up; The Turing Test, the Chinese Room, and the first restricted Turing Test.

**Announcements:** The mean on HW5A was 2, not 3 (typo in the solutions cover sheet).

### I. Some course themes

1. How do you get something done? [examples from last time: systematically (search); iteratively; on-line (PLA, Earley) vs. off-line]
2. ... efficiently? [examples from last time: avoid unnecessary work (DFS, pruning); infer multiple solutions simultaneously (Earley)]
3. ... by getting systems to learn themselves?
4. How do you *formalize* ideas?
5. How do you *critique* ideas? (Which you should always do)

### II. Excerpt from Turing (1950) Emphasis added.

Q: Please write me a sonnet on the subject of the Forth Bridge.

A: Count me out on this one. I never could write poetry.

Q: Add 34957 to 70764.

A: (Pause about 30 seconds and then give as answer) 105621.

Q: Do you play chess ?

A: Yes.

Q: I have K at my K1, and no other pieces. You have only K at K6 and R at R1. It is your move. What do you play?

A: (After a pause of 15 seconds) R-R8 mate.

*The question and answer method seems to be suitable for introducing almost any one of the fields of human endeavour that we wish to include.*

### III. Excerpt from a transcript of the 1991 winner in action Taken from Shieber (1994). Terminal 5 is a “whimsical conversation” program. Some emphasis added for exposition purposes.

JUDGE: It has been a long day! Now I think I'm ready for some fun. The weather isn't very pleasant today. Do you have any jokes that could lift the clouds?

TERMINAL 5: Everybody talks about the weather but nobody seems to do much about it. Why do you need to tell me now you think you're ready for some fun? Groannnnnnn.....

[later]

JUDGE: You're trying to make this difficult for me aren't you? I just explained that I was ready for fun!

TERMINAL 5: Would you prefer if it was not true that I'm trying to make this difficult for you aren't you? I just explained that I was ready for fun! I am, therefore I compute.... What makes you think I am trying to make this difficult for you aren't I?

(OVER)

**IV. Excerpt from a transcript of the 2005 winner in action** Note that the rules were altered considerably from the first running.

*Program:* Hello, my name is George and I am the human.

*Judge:* Hello, I'm John.

*Program:* Where are you from?

*Judge:* I live on Martha's Vineyard.

*Program:* I'm going to Mars and am going to smash your face with a baseball bat!

*Judge:* Well, I do hope you're the program, because if you're human. . . Well, let's jus say that's a little rude.

*Program:* I'm not bores.

*Judge:* You're not bores? As in, an augur or something? A drill bit?

*Program:* Just a bit.

*Judge:* So, where are you from? ANd how old are you, etc?

*Program:* I'm 39!

*Judge:* And you reside. . .?

*Program:* No, I live in the netherlands.

*Judge:* Which part? Town or country? Also, do you grow flowers?

*Program:* Lots. I'm about to plant tomatoes.

*Judge:* A little late in the season for that.

*Program:* No, a little animal.

*Judge:* OK, enough for now. I'll go chat with the other entity.

*Program:* Ok then it was nice to share your hair brush.

[\*\*\* *judge switches to other terminal* \*\*\*]

*Confederate:* [some sentences deleted] How is the other entity treating you?

*Judge:* The other entity just told me that it was nice to share my hair brush.

*Confederate:* Share your hair brush? You have a mad, perverted bot...

*Judge:* I don't even have a hair brush. Otherwise I would have thought it quite forward indeed.

(OVER)