**Turing Tests for Specific Fields of Expertise**

A domain-specific Turing Test is a method for backing up or refuting a claim that a computer system (hardware/ software combination) is “intelligent” in a specific domain or field of expertise. For example, in medicine, a Turing test might involve a panel of human doctors who pose a series of questions to the computer system and to a human doctor, and on the basis of the answers, try to determine which answers are from the computer and which from the human. If the computer gets more votes for “human” than the human, it passes the test.

1. Choose a field of expertise that interests you. It could be It could be your major, but it does not have to be. (Maybe consider subjects such as organic chemistry, electrical engineering, mathematics, classical music, etc.)

Stunts

2. Explain what a person typically does in a job within this field.

Perform dangerous scenes in movies

3. Explain what parts of this job can already be done by computer.

Instead of performing, computers can use CG to create the scene.

4. Explain what seems to be BEYOND the state of the art -- something in this field that a computer cannot yet do but might be able to do soon.

CGs look good but a person can easily identify that the scene is CG.

5. Describe how a good Turing test would be set up in this field:

a. Who should be the judges?

The audience of a movie

b. What kinds of questions would be fair game for the test?

Can you tell, if any, that a particular scene is computer generated.

c. What affordances would be particularly important in this field? (Understanding human speech? Understanding a particular notation such as chemical formulas? Machine vision? Ability to perform logical deductions? Knowledge of particular types of facts such as chemical element properties?

Ability to interpret body movement and generate authentic scenes

6. Is there any particular "must-have" feature for a computer to exhibit in your field in order to be considered "intelligent" within your field?

The computer must be able to capture body movements and make authentic predictions of the body is any other scenario.

7. What do you see as the likely progress of AI in this field in the next 10 years?

No need for stuntman, an AI can generate authentic scenes without the actor doing dangerous movements.

8. Get critiques from at least 2 classmates during breakouts...

a. First classmate’s name and email: \_\_\_\_Alan Zhou, alanzhou@uw.edu\_\_\_\_\_\_\_\_ Classmate’s own topic: \_\_Digital Painting\_\_\_\_ Classmate’s main suggestion for your test:

Instead of reviewing the entire movie, the contest should show scenes from clips of various genres.

b. Second classmate’s name and email: \_\_\_Junqi Ye, jy98@uw.edu\_\_\_\_\_\_\_\_\_\_\_\_Classmate’s own topic: \_\_\_Electrical Engineering\_\_\_ Classmate’s main suggestion for your test:

The judge should also evaluate based on the quality of the rendation along with the 3d motion