

COMS 493

AI, ROBOTS & COMMUNICATION

Agenda

- ▶ Final Examination
- ▶ How to Survive the Robot Apocalypse
- ▶ Course Evaluation

Final Examination



Final Examination

▶ Purpose of the Exam

- ▶ “The examination does not require pointless memorization and/or regurgitation. Rather, it is designed to assess your knowledge of and facility with communication technology. ”
- ▶ Consequently, the final is not about intellectual hazing. It is an assessment tool by which to test whether and to what extent you have accomplished the objectives established for the course.

Final Examination

- ▶ No surprises!
 - ▶ Everything on the exam you have encountered in readings and/or discussed in class meetings
 - ▶ All questions on the exam will be derived from the on-line study guide
 - ▶ If you have read the material and participated in class meetings (i.e. taken notes and discussed material with presenters), then you can do the study guide and by extension complete the exam without any problem.

Final Examination

- ▶ Format (4 Sections)
 - ▶ Talk the Talk
 - ▶ It's Who You Know
 - ▶ Short Answer
 - ▶ Essay

Final Examination

COMS 465: Computer-Mediated Communication
Mid-Term Examination
20 February 2002

Name: _____

The exam is divided into four sections. Follow the directions for each section and read all questions carefully. Responses to the first three sections (Talk the Talk, It's Who You Know, and Short Answers) should be recorded on this paper. The response to the last section (Essay) should be written on the computer. Remember, if you do not know the answer to a question, skip it and come back to it later. All questions have been derived from course material and discussions. The questions in the first three sections have been directly extracted from the study guide.

I. TALK THE TALK (1 point each)

Define the following technical terms and extract its elements. Example: FTP = File Transfer Protocol

1. ASCII

2. Packet Switching

3. TCP/IP

4. Latency

5. FAT

6. Bit

7. MIME

8. Protocol

9. DNS

10. Multitasking

Talk the Talk

- 10 questions x 1 point per question = 10 pts.
- Define technical terms and acronyms
- Evaluation
 - There are right answers
 - No partial credit

Final Examination

II. IT'S WHO YOU KNOW (2 points each)

Briefly identify each person(s) listed below by indicating the contribution(s) she has made to the development of or debate concerning computer mediated communication.

1. J.C.R. Licklider

2. RAND

3. Linus Torvalds

4. Roy Tomlinson

5. Augusta Ada Byron

6. Ted Hoff

7. InterNIC

8. Grace Hopper

9. Howard Rheingold

10. Charles Babbage

It's Who You Know

- 10 questions x 2 points per question = 20pts.
- Identify major figures (people, organizations, objects).
- Evaluation
 - There are right answers
 - Partial credit is available

Final Examination

III. SHORT ANSWER (8 points each)

Provide short responses (4-8 sentences) to the following questions:

1. The control unit of the computer's CPU manages four separate operations, called the machine cycle or processing-cycle. What are the four operations of the processing-cycle and what happens at each stage?

2. The evolution of computer technology and what...

1

3. James Carey argues that there are two different ways by which one can perceive the process of communication. He calls them the "transportation view" and the "ritual or cultural view." What are these two views, and how do they differ from each other?

Short Answer

- 5 questions x 8 points per question = 40 pts.
- Provide short responses (4-6 sentences).
- Evaluation
 - There are right answers
 - Partial credit is available

Final Examination

C/OMS 465: Computer-Mediated Communication
Final Examination/Evaluation
6 May 2002
Prof. David Gunkel

IV. ESSAY (30 points)

Answer ONE of the following questions
support to prove your thesis, and a con

1. Hypertext and hypermedia provide
however, that this technology is more
Mark Amerika suggest that hypertext
producers and consumers of media.
Does it provide an innovative way to
extends current forms of information
of hypertext and hypermedia by emp
reading and writing hypertext.

2. Amy Brudman argues that gender
the network is in the process of chang
impact our identities? How does it a
cross-dressing illustrate this fundam
ary, are the dangers and complicatio

3. Virtual reality promises to provide
generated, artificial environment. Re
for example, suggests that the technolog
Jaron Lanier and Sergio Siskind's
communication and the role technolo
consequences of virtual reality? Doe
threaten established practices and ou

4. In a MCI television advertisement
race. There are no genders. There is
Internet is presented as the great cub
human beings. Is this proposition tr
individuals communicate without the
technology or any technology provid

Essay

- 1 question x 30 points per question = 30 pts.
- Choose 1 of 4 options; write on one question
- Evaluation
 - There are not right or wrong answers to these questions; there are only well reasoned arguments.
 - You will be evaluated for your ability to construct and to substantiate your position.
 - Hints: Have a compelling thesis, evidence or arguments to support your thesis, and a conclusive ending.
 - You may use computer tools (spell check), Internet books, and notes to complete the essay.

Final Examination

▶ Procedure

- ▶ Answer sections 1-3 on the examination sheet
- ▶ Turn in your responses to sections 1-3 & pick-up section 4, which will be on a separate sheet
- ▶ Go to a computer and type your response to the essay. Print out and hand-in

Final Examination

▶ Study Guide

Course Conclusion

2 May - Robot Apocalypse

- Maker Exercise #3 - How To Survive t
- Course Evaluation
- **Final Exam Study Guide**

9 May (6pm)

- Final Examination



COMS 493 – AI, Robots & Communication

Dr. David J. Gunkel

Final Examination Study Guide

The final examination is scheduled for 90 minutes and will consist of four parts.

I. TALK THE TALK (10 x 1 point each)

Define the following acronyms and technical terms. For the acronyms, you can either explain what they mean or spell-out their elements. (i.e. NSF = "A national organization that funds scientific research and education" or "National Science Foundation").

- AI, AGI, CMC, SDS, MT, NLP, AIML, ASR, TTS, ECA, GOFAI, AMA, RUR, SMT, ALICE, ECA
- AI Winter, Machine Ethics, Chatterbot, Big Data, Synaptic, Loebner Prize, Tower of Babel, Computational Creativity, Socialbot, Technological Unemployment, Sociable Robot, Algorithm, Luddite Movement, Superintelligence, Lights-Out Factories, Symbolic Reasoning, Narrow AI, Back Propagation, Singularity, Machine Learning, Anthropomorphism, Deep Learning, Cleverbot, Dartmouth Conference, Imitation Game, Neural Network, Speech Recognition

II. IT'S WHO YOU KNOW (10 x 2 points each)

Briefly identify each person(s) listed below by indicating the contribution(s) s/he has made to the development of or debate concerning communication technology.

Terry Winograd, ELIZA, John McCarthy, Maartje de Graaf, Arthur Samuel, David Cope, Cynthia Breazeal, Jibo, Sophia, Rodney Brooks, Peter-Paul Verbeek, Tay.ai, Heather Knight, John Searle, Deborah Johnson, Alan Turing, Joseph Weizenbaum, AlphaGo, Karl Capek, Mohammed ibn-Musa al-Khwarizmi, Eugene Goostman, Warren Weaver, Robert Epstein, Shimon, John Maynard Keynes, Andrew McAfee, PARRY, Shakey, Pandorabots, Watson, Christopher Steiner, Hiroshi Ishiguro, Taryn Southern, David Hanson, Kate Crawford

III. SHORT ANSWER (5 x 8 point each)

Provide short responses (4-6 sentences) to the following questions:

1. What is "the instrumental theory of technology"? Define the theory and give an example.
2. Social interactions involve at least two components: an agent and a patient. What do we mean by the terms "moral agent" and "moral patient"?
3. Define what is meant by the phrase "responsibility gap" and give two examples that illustrate "responsibility gaps" with emerging technology.
4. Briefly describe the Chinese Room thought experiment? Who came up with this concept? And what is it supposed to illustrate?
5. What is the "other minds problem"? And why is it a problem for deciding who or what is intelligent?
6. Describe the basic structure and significance of Alan Turing's game of imitation or the Turing test.
7. What is the main operational difference between rule-based machine translation, statistical machine translation, and machine learning machine translation?
8. What is the trolley problem? What is it designed to illustrate?
9. Operational definitions of "artificial intelligence" and "robot" often deploy an explanation that utilizes three related capabilities. List and briefly describe these three capabilities.

Final Examination

- ▶ Preparation
 - ▶ Complete the study guide
 - ▶ Use texts and notes
 - ▶ Start early

How to Survive the Robot Apocalypse



Course Evaluation



Course Evaluation

Purpose

The goal of the University is to recognize effective teaching as an important criterion in the evaluation of faculty members for matters of salary, promotion, and tenure. Your assessment of teaching effectiveness is an important part of that process; evaluations go to the personnel committee as well as to the faculty member after the semester has ended. Be fair and objective in rating your professor.

Course Evaluation

▶ Procedure

- ▶ Questionnaire & Scantron sheet
- ▶ Use #2 pencil on Scantron
- ▶ Anonymity – Instructors will not see results of the evaluation until after final grades are recorded
- ▶ Moderator
 - ▶ Collect questionnaire and scantron sheets
 - ▶ Return to WH 209

Course Evaluation

▶ Comments

- ▶ You may provide written comments on the back of the questionnaire sheet
- ▶ These are more instructive for me
 - ▶ Tell me what you liked. What experiences were particularly effective
 - ▶ Suggest improvements
 - ▶ I will look to your feedback to help improve the course for next semester

