

MIDTERM PREPARATION

INFO 300 Intellectual Foundations of Informatics

MIDTERM SCHEDULE

Thursday, November 14, 10:30 AM – 11:50 AM. Location: 228 Mary Gates Hall.

ONE PAGE OF NOTES

You may prepare one page (both sides of the paper) of notes to use during the exam. Please do not include material on binary numbers or Turing Machines. You will be required to turn your notes in with your exam. Your notes will not be graded.

TOPICS COVERED

1. Informatics – Definition and Scope
2. Representation
3. Manipulation
4. Classification
5. Interfaces and Interactive Design

Material from lecture, lab, projects and readings may be included on the exam.

READINGS TO FOCUS ON

Buckland, M. K. (1991). Information as thing. *Journal of the American Society for Information Science*, 42, 5, 351-360.

Meadow, C. T. and Yuan, W. (1997). Measuring the impact of information: defining the concepts. *Information Processing and Management*, 33(6) 697-714.

Marcus, A. (1992). Chapter 3: Symbolism (pp. 51-64). *Graphic Design for Electronic Documents and User Interfaces*. New York, NY: ACM Press.

Savage-Ramblough, E. S., Williams, S. L., Furuichi, T., & Kano, T. (1996). Language perceived: Paniscus branches out. In W. C. McGrew, L. F. Marchant, & T. Nishida (Eds.), *Great Ape Societies* (pp. 173-184). Cambridge: Cambridge University Press.

Decker, R., & Hirshfield, S. (1994). *The analytic engine* (pp. 172-184). (2nd edition). Boston: PWS Publishing Company.

Decker, R., & Hirshfield, S. (1994). *The analytic engine* (pp. 277-280). (2nd edition). Boston: PWS Publishing Company.

Turing, A. M. (1981). Computing machines and intelligence. In D. R. Hofstadter & D. C. Dennett, (Eds.), *The mind's I* (pp. 53-68). New York, NY: Basic Books, Inc. (Excerpted from Computing machinery and intelligence, *Mind*, 1950, 59)

Searle, J. (1981). Minds, brains and programs. In D. R. Hofstadter & D. C. Dennett, (Eds.), *The mind's I* (pp. 353-373). New York, NY: Basic Books, Inc. (Reprinted from *The Behavioral and Brain Sciences* [Vol. 3]. Cambridge University Press, 1980)

Gould, S. (1983). Chapter 28: What, if anything is a zebra? (pp. 355-365) *Hen's Teeth and Horses Toes: Further Reflections on Natural History*. New York, NY: Norton.

Dumais, S. T., & Landauer, T. K. (1984). Describing categories of objects for menu retrieval systems. *Behavior Research Methods, Instruments, & Computers*, 16, 2 242-248.

- Carlyle, A. (1999). User categorization of works: Toward improved organization of online catalogue displays. *Journal of Documentation*, 55(2), 184-208.
- Suchman, L. (1994). Do categories have politics? The language/action perspective reconsidered. *Computer Supported Cooperative Work (CSCW) Journal*, 2, 3, 177-190.
- Winograd, T. (1994). Categories, disciplines, and social coordination. *Computer Supported Cooperative Work (CSCW) Journal*, 2, 3, 191-197.
- Malone, T. W.. (1994). Commentary on Suchman article and Winograd response. *Computer Supported Cooperative Work (CSCW) Journal*, 3, 37-38.
- Nass, C., Moon, Y., Morkes, J., Kim, E., & Fogg, B. J. (1997). Computers are social actors: A review of current research. In B. Friedman (Ed.), *Human Values and the Design of Computer Technology* (pp. 137-162). Cambridge: Cambridge University Press.
- Eisenberg, A. (2000, October 20). Mars and Venus, online. *New York Times*, p. D1, D11.
- Reeves, B., & Nass, C. (2000). Perceptual bandwidth. *Communications of the ACM*, 43, 3, 65-70.
- Picard, R. W. (2000). Affective perception. *Communications of the ACM*, 43, 3, 50-51.