MIT850 Reading list for lecture 1

You can obtain these papers using the UP Library electronic journal facility or from the web:

A. Historical perspective of Software Engineering

Read these papers in chronological order.

1. Boehm, B.W. (1988) A spiral model of software development and enhancement, *IEEE Computer,* vol. 21, no. 5, pp. 61-72, May 1988.

2. Brooks, F. P. (1987) No silver bullet: essence and accidents of software engineering, *Computer*, vol. 20, no. 4, pp. 10-19, April 1987.

3. Brooks, F.P. (1995) *The Mythical man-month: Essays on Software Engineering*, 20th Anniversary Edition, MA: Addison-Wesley.

4. Royce, W.W. (1970 & 1987) Managing the development of large scale software systems: concepts and techniques, *Proceedings of Wescon*, August, 1970. Also available in *Proceedings of ICSE 9, Computer Society Press*, 1987.

B. Challenges in Software Engineering

1. Charette, R.N. (2005) Why software fails, *IEEE Spectrum,* Vol. 42, Issue 9, Sept. 2005, pp. 42-49.

2. Dalcher, D. (1999) Disaster in London: The LAS Case study, *Proceedings of the IEEE Conference and Workshop on Engineering of Computer-Based Systems* (*ECBS*) 1999.