

Social Aspects of Computing

The commercial and private use of computers massively affect private and social life. The fluent use of information technology has become a key qualification for every person.

There are much more impacts than only security that have been investigated in the previous chapter. The ubiquitous availability of computers and the internet has dramatically changed the way we work today.

CHAPTER OBJECTIVES

- To discuss privacy issues of computing.
- Explain the potential and danger of data mining.
- Sketch the implications of ubiquitous and embedded computing
- Point out social risks of computing
- Disclose a possible ethics for computing

17.1 Privacy Issues

17.2 Data Mining

17.3 Ubiquitous Computing

17.4 Social Risks of Information Society

17.5 Ethics of Computing

17.6 Art and Computing

17.7 Myths on Information and Knowledge

17.8 Artificial Intelligence and Artificial Life

17.9 What is Difficult, What is Computable?

17.10 Summary

Exercises

17.1 xx

Bibliographical Notes

General discussions concerning security are given by Hsiao et al. [1979], Landwehr [1981], Denning [1982], Pfleeger and Pfleeger [2003], Tanenbaum 2003, and Russell and Gangemi [1991]. Also of general interest is the text by Lobel [1986]. Computer networking is discussed in Kurose and Ross [2005].