

- Computer Ethics
 - Definition
 - Information Ethics
 - Areas of Ethical Problems
 - Computer Ethics Issues
 - Computer Ethics: Academic Discipline
 - History of Computer Ethics as a field of study
 - Computer Ethics: Standards of Conduct
 - Ten Commandments of Computer Ethics
 - Netiquette

















Objectives

- Define computer ethics and information ethics
- Identify areas of ethical problems and issues
- Discuss computer ethics as an academic discipline.
- Determine the computer ethics standards of conduct.



- A branch of philosophy that deals with computing-related moral dilemmas
 - defines ethical principles for computer professionals
 - professionals must try to avoid unethical behavior whether it is illegal or legal









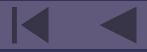








- Today there are numerous illegal and unethical actions that can arise through computer usage
 - Plagiarism and copyright infringement
 - Software Piracy
 - Computer crimes, unauthorized computer access















- As a professional you should
 - Safeguarding secure information
 - Use Email and the Internet responsibly













Applied Computer Ethics

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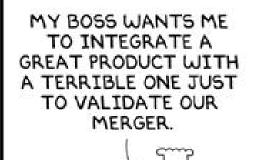








How Does This Apply to Me?



IS IT ETHICAL FOR ME TO STALL FOR A MONTH UNTIL HE FORGETS WHAT HE ASKED FOR?



SURE. YOU
CAN EVEN
HIT HIM
WITH A
ROCK TO
SPEED UP
THE FOR—
GETTING.

MAYBE I'M ASKING THE WRONG ETHICIST.



Scott Adams, Inc./Dist. by UFS, Inc.

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(Scott Adams, http://www.dilbert.com, 1/19/06)

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Information Ethics

- Applying this to:
 - Direct interaction
 - Personal correspondence
 - Telephone
 - Print media
 - Radio and television

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Information Ethics

How it might differ when using a computer:

- Scope
- Speed
- "It seems different with a computer"



















Areas of Ethical Problems

- Personal intrusion
- Privacy
- Morality
- Deception
- Security
- Resources
- Intellectual property
- Inappropriate use
- Technology and social responsibility

Computer Ethics Issues: Examples

- Computers in the Workplace
- Computer Crime
- Privacy and Anonymity
- Intellectual Property
- Professional Responsibility
- Globalization

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General Comments on Ethics

- The world of ethics is gray
- Ethical conflict is characterized by
 - Intense feelings
 - Rapid development

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Computer Ethics: Standards of Conduct

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The Top Ten Rules of Computer Ethics Thou shalt not use a computer to harm other people.

- 1.
- Thou shalt not interfere with other people's computer 2. work.
- Thou shalt not snoop around in other people's 3. computer files.
- Thou shalt not use a computer to steal. 4.
- Thou shalt not use a computer to bear false witness. **5**.
- Thou shalt not copy or use proprietary software for 6. which you have not paid.
- Thou shalt not use other people's computer resources 7. without authorization or proper compensation.
- Thou shalt not appropriate other people's intellectual 8. output.
- 9. Thou shalt think about the social consequences of the program you are writing or the system you are designing.
- 10. Thou shalt always use a computer in ways that insure consideration and respect for your fellow humans.

From the Computer **Ethics** Institute)



Netiquette - Network etiquette

- The conventions of politeness recognized on Usenet, in mailing lists and email.
- The most important rule of netiquette is "Think before you post".
- Re-read and edit your email carefully before you send. Check the spelling and grammar.
- When responding to a newsgroup posting, quote the minimum necessary to give some context to your reply and be careful to attribute the quote to the right person.
- Only send email to the necessary recipients.
- Email is permanent and can be saved forever!

Computer Ethics: Academic Discipline

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- 1940s-1950s Norbert Wiener (MIT)
 - Notes the social/ethical implications of computer technology

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"...we were here in the presence of another social potentiality of unheard-of importance for good and for evil."

(Cybernetics: or control and communication in the animal and the Introduction machiner,բրթ.s27-28, 1948)

History of Computer Ethics as a Field of Study

- 1960s Donn Parker (SRI International)
 - Unethical and illegal uses of computers
 - 1968: Led Code of Professional Conduct for the Association for Computing Machinery (ACM).
 Adopted by ACM in 1973.
- 1970s Walter Maner (ODU)
 - Coined "computer ethics"

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History of Computer Ethics as a Field of Study

- 1980s Computer ethics becomes an academic discipline
 - Public issues:
 - Computer-enabled crime
 - Disasters caused by computer failure
 - Privacy invasion via databases
 - Law suits over software ownership

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History of Computer Ethics as a Field of Study

- 1990s Lots of research …
 - Health HIPAA
 - Wealth
 - Opportunity
 - Freedom
 - Democracy
 - Knowledge
 - Privacy
 - Security

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Notion of (computer) professional ethics

Computer professional == "anyone involved in the design and development of computer artifacts"





Sources and Other Information

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- Ethics in Computing: <u>http://ethics.csc.ncsu.edu/</u>
- Computer Ethics Institute http://www.brook.edu/its/cei/cei hp.htm

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- Netiquette:
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 - Netiquette Home Page http://www.albion.com/netiquette/
 - Online Netiquette Home Page http://www.onlinenetiquette.com/