



Social, Security, and Privacy Implications of Computing

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Cyber Ethics



“Relativity applies to physics, not ethics” - Albert Einstein





Cyber Ethics

Definition

- Work Ethics
 - Define the principles of an organization
 - Tries to promote integrity and transactional transparency
- Need for Cyber Ethics
 - Cyber Ethics can be defined as the field of inquiry dealing with ethical problems aggravated, transformed or created by computer and network technology.

Definition from Maner, W. (1978). *Starter Kit in Computer Ethics*.



Cyber Ethics

Technology Benefits

- Increased productivity
- Communication speed
- Automated tasks
- Widespread information dissemination
- Information processing

Cyber Ethics

Technology Limitations

- Health impacts
 - e.g. Carpal Tunnel
- Social impacts
- Adjustment
- Anonymity
- Ease of performing illegal activities



Cyber Ethics

Ten Commandments



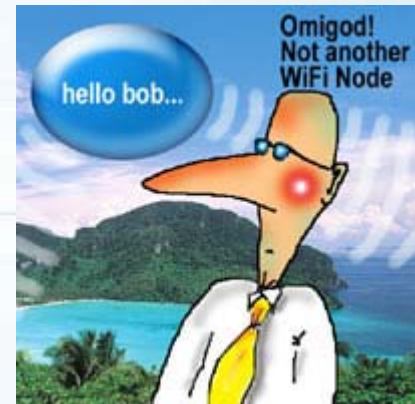
1. Thou shalt not use a computer to harm others.
2. Thou shalt not interfere with others' computer work.
3. Thou shalt not snoop around in others' computer files.
4. Thou shalt not use a computer to steal.
5. Thou shalt not use a computer to bear false witness.
6. Thou shalt not copy or use proprietary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

Adapted from: Barquin, R.C. (1992). In Pursuit of a 'Ten Commandments' for Computer Ethics. *Computer Ethics Institute*.

Cyber Ethics

CyberEthical Surfivor Scenario #1

- You have just realized that your next-door neighbor has an insecure wireless access point and your computer connects automatically to it. Should you use this wireless access point?



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CyberEthical Surfivor Question



- Just because you CAN does it mean that you SHOULD?

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CyberEthical Surfivor Scenario #2

- You have just gotten robbed and your entire CD collection has been stolen. You know that there are programs that you can download music for free. Should you be able to download the music from your original CD's?



Cyber Ethics

CyberEthical Surfivor Notes



- Something that is **ILLEGAL** may be different than something that is **UNETHICAL**.

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CyberEthical Surfivor Scenario #3

- You have a 9-5 job and your company provides you with a blackberry and cell phone so that you will be accessible 24 hours a day with no overtime pay. Considering this, you are very busy with a spouse and three kids. Should you be able to use company time for personal activities?



Cyber Ethics

CyberEthical Surfivor Scenario #3, Cont'd.



- What about
 - Paying bills?
 - Online gambling?
 - Setting up day care arrangements?
 - Music file-sharing?
 - Pornography?
 - Looking at the summary for the last episode of “Lost”, “Desperate Housewives”, or “CSI”?



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CyberEthical Surfivor Scenario #4

- You will be split into two groups to come up with a conclusion based on the upcoming scenario.
- After about 5 minutes you will be asked to reconvene and discuss what you would choose.

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CyberEthical Surfivor Scenario #4



- You receive an anonymous email which includes all technical and business details of a key competitor's project. Your company is behind and if you use the information, you will likely beat your competitor- and be a hero. If you don't use the information, your company will lose a great deal of money and you will likely be the scapegoat. If you use the information, no one – except you – will ever know. What do you do?



Cyber Ethics

CyberEthical Surfivor Scenario #4 in Defcon

- Situation
 - Two separate groups
 - Unanimous decisions in both groups
 - “Business is War”
 - “Immoral” and even “Illegal”
 - Split judging among peers
- Results
 - Leadership is important



“Ethics is not definable, is not implementable, because it is not conscious; it involves not only our thinking, but also our feeling.”

-Valdemar W. Setzer



Cyber Ethics

Six Steps Towards Making Ethical Decisions

1. Identify the ethical issue or problem.
2. List the facts that have the most bearing on the decision.
3. Identify anyone who might be affected by your decision and how.
4. Explain what each affected person would want you to do about the issue.
5. List three alternative actions and identify the best and worst case scenario for each alternative, anyone who would be harmed by this choice (and how), any values that would be compromised by selecting this alternative, and any automatic reasons why this alternative should not be selected (legal issues, rules, etc.).
6. Determine a course of action.

Source: <http://lessonplans.btskinner.com/ethics1.html>

Cyber Ethics

Final Thoughts



- How do you know what the right thing to do is?
 - Enron and your mom



Cyber Safety against Online Predators



“As the father of four young adult children, I know that kids know much more than their parents about the Internet.”

-Mark Kennedy



Pop Quiz:

Name three websites that your child (or any child you know) visits regularly on the Internet.

Cyber Safety

Online Environment

- New virtual “playground”, e.g.
 - Instant Messengers
 - Chat rooms
 - Discussion Boards and Forums
 - Social Networks
 - Blogs
 - Online RPG Games



Cyber Safety

Technophilia

- Detective James McLaughlin, Keene County Police Department states that technophilia is:
 - “Persons using the computer to engage in sexual deviance”.



Cyber Safety

Statistics

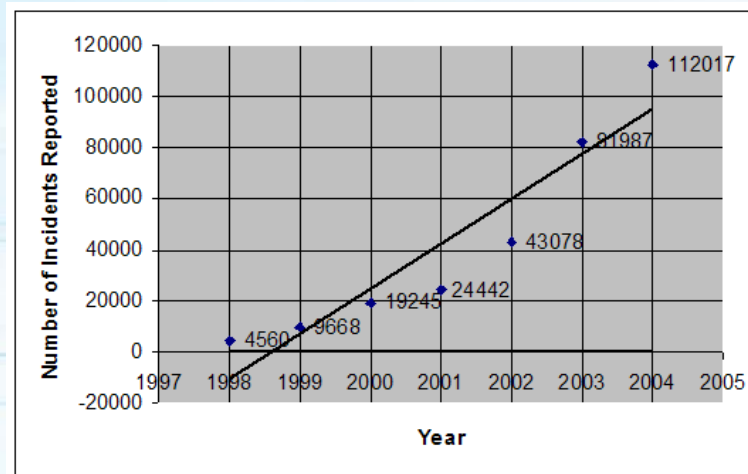
- 1 in 5 children are sexually solicited online in a year
 - 2000 Report from the National Center for Missing and Exploited Children
- 20% of violent offenders serving time in state prisons reported to having victimized a child
 - U.S. Department of Justice





Cyber Safety

CyberTipline: Annual Report Totals



- The incidents being calculated include:
 - Child pornography, child prostitution, child sex tourism, child sexual molestation, online enticement of children for sexual acts, unsolicited obscene material sent to a child.

Cyber Safety

Not everything is what it seems

- Predators are able to “pretend” to be someone who would appeal to a victim
 - Untrue statements regarding age or body type
 - Photo editing





Cyber Safety

Who's NOT the Cyber Predator?

This guy
should be
familiar 😊

He's NOT
a cyber
predator!



- Cyber predators come from all walks of life
 - In “To Catch A Predator III” on Dateline NBC, a team managed to lure about 50 predators
 - The age range was 19-65 yrs. old.
 - Jobs held included a high school teacher and a Department of Homeland Security employee.

Cyber Safety

Near Albany, NY

- Kevin Gilman a Wyantskill resident was sentenced to 10 years in prison for possession and trading of over 1,000 child pornography images on the Internet through a Yahoo! group.
- He was also arrested in August on felony charges for allegedly molesting a 6-year-old Albany boy two months earlier.

Source: Cristo, R. (January 20, 2006). Child pornography possession land man in jail. The Record.



Cyber Safety

Real Sample IM Conversation



- A/L/S
- Pictures
- Experience
- Home Life

Source: Internet Safety for Kids



Cyber Safety

Warning Signs that Something is Wrong

- If your child is:
 - Online late at night
 - Spending a lot of time online (not school or homework-related time)
 - Left alone during most of his/her online sessions
 - Spending most of their online time in chat rooms
 - Reluctant to talk about or evasive in describing his/her online experiences
 - Minimizing the screen when you walk by
 - Hiding programs in the task bar when you go past

Cyber Safety

What to Do

- Try to find your child's information online (<http://www.htcia.org>) and teach them not to release personal information
- Learn about your child's online activities and friends
- Put child's computer in public room
- Create home policies and restrictions
- Understand the policies in other Internet-enabled areas (schools and libraries)
- Let children know that there are no repercussions for telling you about online solicitations.



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Filters

- Use filters, but don't only rely on them
 - Content Protect (www.contentwatch.com)
 - NetNanny (www.netnanny.com)
 - CYBERSitter (www.cybersitter.com)
 - CyberPatrol (www.cyberpatrol.com)
 - Cyber Sentinel (www.securitysoft.com)
 - FilterPak (www.surfguardian.com)
 - Cyber Snoop (www.perlsw.com)





Cyber Safety

Online Resources

- NetSmartz Workshop
 - <http://www.netsmartz.org>
- National Center for Missing and Exploited Children
 - <http://www.missingkids.com>
- Perverted Justice
 - <http://www.perverted-justice.com>
- NYS Sex Offender Registry
 - <http://criminaljustice.state.ny.us/nsor/>