

MIS, 11e

Module 4: Personal, Legal, Ethical, and Organizational Issues

Module Objectives

By the end of this module, you should be able to:

- 4.1 Discuss information privacy and methods for improving the privacy of information.
- 4.2 Explain the General Data Protection Regulation.
- 4.3 Explain the privacy issues of e-mail and data collection in a business setting.
- 4.4 Examine ethical issues and censorship in information technology.
- 4.5 Discuss the principles of intellectual property and issues related to the infringement of intellectual property.
- 4.6 Examine the impact of information technology on society: the digital divide, telecommuting, and health issues.
- 4.7 Describe green computing and the ways it can improve the quality of the environment.

Privacy Issues (1 of 3)

- Ethical issues related to social media:
 - Fake News a story or hoax to misinform or deceive people.
 - Cheap fakes
 - Misinformation
 - Disinformation
 - **Deepfakes** fake videos or audio recordings that look and sound just like the real thing.

Read the Social Networking Sites and Privacy Issues Box in the textbook.

• Information about people is stored on various databases

Discussion: Any data privacy concerns on this aspect?



Privacy Issues (2 of 3)

Three related concepts for Web and network privacy

- Acceptable use policy Set of rules specifying legal and ethical use of a system and consequences of noncompliance
- Accountability Issues involving both the user's and the organization's responsibilities and liabilities
- Nonrepudiation Method for binding all the parties to a contract

Privacy Issues (3 of 3)

Guidelines to minimize invasion of privacy

- Use Web sites with privacy policies that are easy to find, read, and understand
- Limit access to personal information
- Ensure data's reliability and take precautions to prevent misuse of the data
- Ensure data collection has a stated purpose
- Must consent to use information for other reasons
- Must verify data accuracy and only collected what is needed.
- Records must be accurate, and users are able to edit or change
- Record-keeping systems should not be secret



General Data Protection Regulation

• Laws that protect European Union (EU) citizens' personal data

What about British Columbia of Canada?

Read:

- https://www.dataguidance.com/notes/british-columbia-dataprotection-overview
- https://www.priv.gc.ca/en/privacy-topics/privacy-laws-in-canada/the-personal-information-protection-and-electronic-documents-act-pipeda/r_o_p/prov-pipeda/

E-mail

Privacy Concerns

- Spam unsolicited e-mail sent for advertising purposes
 - Sent in bulk using automated mailing software
 - -Spammers sell their address lists
- Ease of access
 - -Assume others will have access to your messages
 - Any e-mails sent on company-owned computers are the property of the organization

Data Collection on the Web (1 of 3)

- Online shopping in increasing because of convenience, choices, and lower prices.
- Some shoppers avoid online shopping because of
 - -Online hackers
 - Selling of personal information to telemarketing firms
- Users' information can be combined with other information and technologies to produce new information



Data Collection on the Web (2 of 2)

Cookies - small text files with unique ID tags that are embedded in a Web browser and saved on the user's hard drive

- Used for welcoming new and returning users
- Used to remember information for ordering
- Helps Web sites customize pages for users
- A cookie manager can disable cookies, if needed.

Watch Video: https://www.youtube.com/watch?v=rdVPflECed8

- Log files a record of a user's actions on a Web site
 - Generated by Web server software



Ethical Issues of Information Technologies

- Information technology offers opportunities for unethical behavior because its easy to collect and disseminate information
- Increase in cybercrime, cyber fraud, identity theft, and intellectual property theft
 - Nearly 15 million U.S. residents' identities stolen every year
 - -One identity stolen every two seconds; average loss of \$3,500.26
- Business identity theft: financial fraud, tax fraud, Web site defacement, and trademark ransom.



Discussion Activity 1-1

Review the following situation to determine where they fall within the ethical vs legal grid.

	Legal	Illegal
Ethical	-	II
Unethical	III	IV

- 1. You make two copies of a software package you just bought and sell one to a friend.
- 2. A supervisor fires a programmer who has intentionally spread viruses to the organization's network.

Discussion Activity 1-1 Debrief

1. You make two copies of a software package you just bought and sell one to a friend.

Answer: Quadrant IV

Explanation: It is illegal and unethical.

2. A supervisor fires a programmer who has intentionally spread viruses to the organization's network.

Answer: Quadrant I

Explanation: It is legal and ethical.

Digital citizenship – using information technology safely, ethically, and responsibly.

7 principles to good digital citizenship:

- Online etiquette
- Privacy protection
- Know how to stay safe online
- "Dos and don'ts" of information technology
- Protecting and respecting intellectual property
- Understanding one's digital footprint
- Healthy usage patterns



Censorship

Two types of information on the Web:

- Public information posted by an organization or public agency
 - Censored for public policy reasons (i.e., military secrets)
 - Censored if offensive to a political, religious, or cultural group
- Private information posted by a person
 - Not censored because of constitutional freedom of expression

Restricting access to the Web

- Some Countries restrict or forbid their citizens' access to the Web
- Parents may restrict Web access for children using software
 - Examples: CyberPatrol, CYBERSitter, Net Nanny, and SafeSurf
 - Some Web browsers have built-in features to protect children



Intellectual Property (1 of 3)

Intellectual Property – a legal umbrella covering two categories of protections:

- Industrial Property: inventions, copyrights, trademarks, logos, industrial designs, etc.
- Copyright material: literary and artistic works

• Watch Video: https://www.youtube.com/watch?v=RQOJgEA5e1k&list=PL8dPuuaLjXtMwV2btpcij8S3YohW9gUGN&index=2



Intellectual Property (2 of 3)

Copyrights - protects tangible material and

Online materials (web pages and HTML code)

Computer graphics (printed or saved on a storage device)

Trademarks – protects product names and identifying marks (i.e., logos)

Trade secrets – protects ideas, information, and innovations

Patents – protects new processes

- Generates revenue through licensing
- Attracts funding for further research and development
- Keeps competitors from entering certain market segments



Intellectual Property (3 of 3)

- Cybersquatting (aka domain squatting)
 - Registering, selling, or using a domain name to profit from someone else's trademark
- Typosquatting (aka URL hijacking)
 - Relies on typographical errors made by Web users
 - Typing goggle.com instead of google.com



Social Divisions and the Digital Divide

- Digital divide: information-rich vs the information-poor
 - Many people still cannot afford computers
 - "Red-lining" companies prioritize fiber-optic high-speed Internet within high-income communities.
 - Schools help with loaner programs providing portable computers to students

Knowledge Check Activity 4-2

Which of the following is an example of a patent?

- a. Online video promotion
- b. Nike brand
- c. McDonald's logo
- d. Bluetooth

Knowledge Check Activity 4-2: Answer

Which of the following is an example of a patent?

Answer: Bluetooth

Patents protect new processes like an invention. Bluetooth was invented in 1994 by Jaap Haartsen. Bluetooth technology connects nearby electronic devices using low-power, ultra-high-frequency waves.



The Impact of Information Technology in the Workplace

- Increased consumers' purchasing power
 - Results in a stronger economy by reducing production costs
- Information technologies directly affect the nature of jobs
 - -Telecommuting (or virtual work) allows people to work from home
 - "Job deskilling" skilled labor is eliminated with high technology
 - "Job upgrading" i.e., clerical work use word processing software
 - -One skilled person can now do multiple jobs
 - Any other examples?

Read the Employee Monitoring box. How do you feel about it?



Information Technology and Health Issues (1 of 4)

- Increasing popularity of touchscreens
 - May result in stress-related injuries of the hands, arms, back, and eyes
 - Text neck: neck pain and damage caused from looking down frequently
- Major negative impacts:
 - Teen tendinitis
 - Stress
 - -Sleep loss
 - Accidents

- Increased anxiety
- Cyberbullying
- Risk of cancer

Information Technology and Health Issues (2 of 4)

- Health problems related to computer equipment
 - Vision problems
 - Musculoskeletal problems
 - Skin problems
 - Reproductive problems
 - Stress-related problems (headaches, depression)



Information Technology and Health Issues (3 of 4)

- Health/emotional well-being of children
 - Feel "hidden sadness" when parents spend too much time on smartphones
 - Children do not receive time or attention
- Five types of Internet addiction:
 - Cybersexual
 - Web compulsions
 - Cyber-relationships

- -Gaming
- -Information seeking

Information Technology and Health Issues (4 of 4)

- Distracted walking walking while using a smartphone
 - -11,000 injuries a year in U.S. alone
 - -259 selfie deaths in a six-year period
- Recommendations to overcoming these technology addictions:
 - -Admit there is a problem
 - -Limit / schedule your usage
 - -Socialize more
 - Change communication patterns

Green Computing

Green Computing – involves the design, manufacture, use, and disposal of information technology devices

- Promotes a sustainable environment; help to combat global warming
- Requires the cooperation of private and public sectors

Implementation approaches:

- -Green design
- -Green manufacturing

- -Green use
- -Green disposal



Ways to achieve green computing:

- Design products that last longer and are modular in design
- Design search engines and computing routines that are fast and energy-efficient
- Replace underutilized small servers with one large server; virtualization
- Use devices that consume less energy and are biodegradable
- Allow certain employees to work from home
- Conduct meetings over computer networks
- Use video conferencing and electronic meeting systems.
- Use a virtual world
- Use cloud computing
- Turn off idle PCs; recycle computer materials



Green Computing (3 of 3)

Ways to achieve green computing (continued):



Self Assessment

How much personal information do you feel is publicly available as a result of your Internet presence? Is it good or bad?

In what ways can you help improve your personal health as you use or work with information technology?

How can you personally contribute to the effort of green computing in your everyday life?



Summary

Now that the lesson has ended, you should be able to:

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