

## M7 The World Wide Web

**World Wide Web** - system of interlinked documents that accessible on that network called the Internet

**Webpages** - documents hosted on web servers

**Hyperlinks** - webpages usually contain links to other pages

↳ located on web servers around the Internet

**Website** - webpages that's grouped together

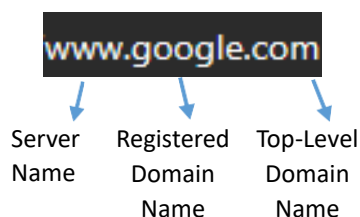
**Uniform Resource Locator (URL)** - web address that allows access to webpage

**Hypertext Transfer Protocol (HTTP)** - set of rules governing the internet

↳ dictates how webpage should be transferred across the network

↳ protocol used to request webpages from a web server and for secure web transactions, such as making purchases over the Internet

**File Transfer Protocol (FTP)** - used to transfer large files between user's computer and special type of server called an **FTP server**



**Server name** - identifies name of the server

**Domain name** - unique web address in descriptive alphanumeric form which understandable by users  
 ↳ identifies the location of a webpage  
 ↳ typical domain name consists of three labels separated by periods or dots

**Registered Domain Name** - identifies the **organization** that owns the domain name

**Top-level Domain Name** - identifies the **category** of the registered domain name

## M8 Cybercrime and Enterprise Computing

**Cybercrime** - unauthorized use, modification, destruction of data/computer system

↳ composed of broad range of criminal activities

↳ categorized by types of crimes that aim computers and networks, carried out by the use computers and networks

### Reasons behind Cybercrime

1	Money
2	Information
3	Thrill/Challenge
4	Theft of Service/Product
5	Revenge
6	Competition

**Cybercriminals** - computer literate individuals who conduct deliberate attacks on personal computers and networks

### Different Types of Cybercriminals

1	<b>Hacker</b> breaks into security system of personal computers/networks  <b>Ethical hackers</b> - assigned to penetrate organizations security system to assess its strengths and locate its weaknesses
	<b>Cracker</b> violates, destroys, vandalizes and exploits networks and personal computers ↳ commonly mistaken with hackers, underground groups that many organizations and individuals fear  <b>Software cracking</b> - modification of an application behavior ↳ can be in form of altering a program features, activating an application with fake serial key, removing software protection, or adding and removing features from the application
3	<b>Insider (Whistleblower)</b> someone who's a member of a restricted group and hold deep knowledge of the group's activities ↳ great threat to any organization or institution
4	<b>Fraudster</b> person who attempts to present falsified information or misrepresent information by means of computer to gain money, service or benefits
5	<b>Cyber stalker</b> trace and follows an individual's or a group's activities and invade their privacy online  <b>Cyber stalking</b> - can be other forms such as online harassment, threats, identity theft, email attacks or false accusations
6	<b>Cyber terrorist</b> intend to gain socio-political advantage by launching attacks on information, computers and networks in large scale institutions

**Enterprise Computing** - commonly describes a business or venture of any size

↳ use of computers in networks, such as LANs and WANs, or series of interconnected networks that encompass a variety of different operating systems

**Information System** - set of hardware, software, data, people and procedures that work together to produce information

↳ mechanism that helps people gather data, store and organize them to produce meaningful information

**Enterprise Information** - information gathered in the ongoing operations of enterprise-sized organization  
↳ begins with the day-to-day transactions that occur within a company, such as sales receipts or time-cards

## M9

## Artificial Intelligence and Information System

**Artificial Intelligence** - study of how to make computers do things what the human beings can do, the study of the computations

### Two approaches to AI

1	Attempt to use computers to emulate human mental processes
2	Involves on designing intelligent machines that are independent from how the people think This approach considers that human intelligence is just one possible kind of intelligence

**Expert System** - software program designed to emulate the decision-making process of human expert

**An expert** - person who has great amount of knowledge and skills on a particular field of study or profession

### Advantages of Expert System

1	Can reduce the number of human errors, provide expertise when experts are not available and make knowledge available to more people
2	Can also train new employees, preserve knowledge of experts after those experts leave the company and take care of routine-tasks so that the workers can concentrate on jobs that need human interaction and understanding

**Pattern Recognition** - involves identifying recurring patterns in input data with goal of categorizing or understanding that data

**Application of pattern recognition** - includes face identification, hand writing recognition and finger print identification

**Image analysis** - process of identifying shapes and objects in an image, picture, drawing or video  
↳ applied in piloting cruise missiles, and colorizing old motion pictures

**Speech Recognition Software** - allows computer to follow command through our voice

**Neural Networks** - artificial brain that emulates the actual human brain

**Robotics Technology** - computer-controlled machines that designed to perform specific and routinely manual tasks

**Management Information System (MIS)** - enables managers to decide effectively on how to manage the business by knowing the company's financial status

**Decision Support System (DSS)** - enables managers to become effective decision makers on the companies' daily operation strategies and tactics  
↳ used to access and analyze data in the company's transaction processing system

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### Disclaimer



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If you see one, tell Drew :>

Some information here could be incorrect, if you suspect one, please do double-check