

A Short Review on the History of Computer

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Abstract

After surveying the current state of the literature in the history of computing, this paper discusses some of the major issues addressed by recent work in the history of technology. It suggests aspects of the development of computing which are pertinent to those issues and hence for which that recent work could provide models of historical analysis. As a new scientific technology with unique features, computing in turn can provide new perspectives on the history of technology.

Keywords:-History of computer, computer, computer research, Computing education, Virtual Machine and computer science.

INTRODUCTION

The computer is a type of device that collects information and is used for a variety of purposes ranging from browsing the web, writing documents, editing videos, creating applications, playing video games, etc. In a word, it makes our work easier, and we can make distant work easier. So we can say that the computer is the most important device in the digital world. Five basic elements of the computer system: input, output, data path, control,

and memory. Finally, we can say that a computer is a programmable electronic device that performs our calculations and logical activities; especially it can process, store and recover a large amount of data quickly.

What is a Computer?

The word computer is derived from the Latin word 'computer', meaning calculating or programmable machine. A computer is an electronic device that

manipulates information or data. It can store, retrieve and process data. A computer can do nothing without a program. Charles Babbage is called the "Grand Father" of computers. The first computer was invented by Charles Babbage in 1837. The first mechanical computer designed by Charles Babbage was called the Analytical Engine. It uses read-only memory in the form of punch cards. A computer is a machine or device that processes calculates and performs operations based on instructions given by a software or hardware program. Computers can be used to type documents, send emails, play games, browse the web, make presentations and even edit or create videos.



Figure no.1 Basic notes of computer

What are the Different Types of Computers?

Nowadays it is impossible to imagine life without computers. When most people hear the word computer, they think of a personal computer such as a desktop or laptop. Most people think of a computer as

a device that accepts input from a user via a mouse or keyboard, processes it in some fashion, and displays the result on a screen. However, computers come in many shapes and sizes and they perform many different functions in our daily lives.

Desktop Computer



Figure no.2 desktop computer

Most people use desktop computers for work, home, school, and gaming. Because desktop computers can handle higher workloads. However, desktop computers face problems in moving from one place to another. So it is designed to be placed on a desk and they usually consist of several different parts including the computer case, monitor, keyboard, and mouse. Desktop computers are divided into parts.

Laptop Computer



Figure no.3 Laptop computer

Laptop computer is the second type of computer; laptop computer is more advanced and more standard than desktop computer. Most people prefer that laptops are battery-powered computers that are more portable than desktops, allowing you to use them almost anywhere, and laptop computers look a lot nicer.

Tablet Computer



Figure no.4 tablet computer

Tablet computers are more portable than laptops. Because it looks and size is much smaller than a laptop. Instead of having a keyboard and mouse, tablets use a touch-sensitive screen for typing and navigation. Tablet computers can always be carried. And it is possible to do all kinds of work like desktop or laptop.

Server Computer



Figure no.5 server computer

Server computers are computers that serve information to computers over a network. Servers usually have powerful processors, lots of memory, and large hard drives. Small and large companies rely on servers to deliver information, process orders, track shipping data, crunch scientific formulas, and more. Like regular PCs, servers contain common computer components. They have a motherboard, RAM, video card, power supply, and enough network connection for any need.

Why Computer is Important?

The importance of computer in this modern world is immense. Computers in this modern world are immense. Because the use of Computers make our lives easier and simpler, and the importance of computers in our work makes work easier. These days' computers are the tools for not only engineers and scientists but also they are being used by millions of people around the world. Computers today help us in many ways, such as helping us to calculate and giving us accurate answers. Computers help us to do many things in a short time. Computers make it easier for us to communicate.

Helps us to send information from one country to another. Through the computer, we can send it in a matter of seconds.

Moreover, it can store a huge amount of data. We also get information on various topics using the internet on our computer. In this day and age, living without a computer has become unimaginable.

Computers have become very important in daily life. Computers have become a necessity for people of all ages. Everyone is using computers to meet different needs. Every sector of the world is enjoying many benefits of using computers. We can never underestimate the benefits of computers. In the middle of the nineteenth century, computers were used only by the government and government forces because using computers at that time was a difficult and complex task. When microprocessors were introduced, computers became smaller in size, but DOS and UNIX made it much easier for people to use computers. Computers play a major role in almost every aspect of our technical education, health, communication, shopping, and daily life.

Computers make our daily lives easier. So that we can do things very easily in a short time. So we can say that the computer is a very necessary device for every human being. This article mentions 10 important tasks of the computer in the modern world

that the computer constantly helps to get the job done.

1. Quick and easy learning.
2. Increase productivity.
3. Fast and cashless bank transactions.
4. Assistance to the disabled.
5. Easy exchange of information and communication.
6. Data processing, organization and presentation.
7. Diagnosis and monitoring.
8. Studies.
9. Entertainment.
10. Ads and online purchases.

History of Computer



Figure no.6 history of computer

The record of computers starts about 2000 years ago in Babylonia (Mesopotamia), the word computer is derived from the Latin word ‘computer’, was meaning “accounting”. In the 1640s, the Computer term was first used, In 1897, the term changed and got a new computer meaning “Calculating Machine“.

The invention of the computer was preceded by the invention of the calculator, which mathematicians used as a calculating instrument. The calculator helped to add, subtract, multiply, and divide.

Blaise Pascal was a French mathematician, physicist, religious philosopher, and master of prose. He laid the foundations of the modern theory of probability, Gottfried Wilhelm (von) Leibniz was a German polymath who was active as a mathematician, philosopher, scientist, and diplomat. He is a prominent figure in both the history of philosophy and the history of mathematics.

In contrast to Pascal, Leibniz (1646-1716) successfully introduced a calculator on the market. This is it designed in 1673 but took a long time to complete in 1694. The calculator helps to add, subtract, and multiply.

Charles Babbage, a famous English mechanical engineer, and polymath came up with the idea of a programmable computer. Considered the "father of computers," Charles Babbage invented the first mechanical computer in the early 19th century.

We think that the invention of the computer is the best in the history of our world. Because we can't imagine our modern life without a computer. And we know that without the invention of the computer, we would never have got the modern age, so we can say, the computer has become a part of our lives.

We know that computers are usually six types, the most notable of which is

1. Analog computer
2. Digital computer
3. Mainframe computer
4. Supercomputer
5. Minicomputer
6. Microcomputer.

Analog Computer



Figure no.7 analog computer

Analog computers use uninterrupted physical dimensions to present information. At first, they represented quantities with mechanical components. Analog computers used voltage after World War II; Digital computers largely

replaced them in the 1960s. Works such as aircraft and spaceflight simulations continued until the 1960s.

Digital Computer



Figure no.8 digital computer

Unlike analog computers, digital computers represent information in isolated forms; the modern age of digital computers began in the United States, Britain, and Germany in the late 1930s and early 1940s.

Main-Frame Computer



Figure no.9 main-frame computer

In the 1950s and '60s, Unisys (the maker of UNIVAC computers), the International Business Machine Corporation (IBM), and other companies made these expensive

computers. These computers were used by government research laboratories.

Super Computer



Figure no.10 super computer

The most powerful computers are usually called supercomputers. They have historically been very expensive and their use has been limited to government-sponsored research work and limited to high-priority calculations, such as nuclear simulation and weather modeling.

Mini-Computer



Figure no.11 mini-computer

Minicomputers arrived in the early 1950s but were introduced in the mid-1960s. Minicomputers are relatively small and inexpensive; minicomputers were typically

used in a single department of an organization and for a job. Minicomputers generally had limited computing capabilities.

Micro-Computer



Figure no.12 micro-computer

A microcomputer is a microprocessor integrated circuit that can be called a small computer. Early minicomputers replaced vacuum tubes with separate transistors, and microcomputers (and later minicomputers) used microprocessors that integrated thousands or millions of transistors into a single chip.

Application of Computer

The value of the computer in our daily life is immense. Computers play a big role in every aspect of our lives. Without computers, we cannot imagine our modern life. Our computer has become a very significant thing in daily life. With computers, we can do many things in a

very short time, such as home, business, educational institutions, research institutes, medical field, government office, entertainment, online bill payment, watching movies or shows at home, home tutoring, social media access, games, internet usage, etc. Moreover, long-distance conversation can be done through electronic mail. Moreover, computers allow corporate laborers to work from home. Computers have become a much-required tool for us to help the student community get online educational support and so on.

Education



Figure no.13 application of education

Computers are used in education for online classes, online exams, referral e-books, online tutoring, and assorted note collection. Moreover, the use of audio-visual materials in the field of education helps in the growth of computers.

In Medical Cases



Figure no.14 application of medical cases

Computers are used in hospitals or clinics to maintain a patient's physical condition, diagnosis, X-rays, various test data, or databases of patients. Surgeons nowadays can perform critical operations using robotic surgical devices and perform surgeries remotely. Computer virtual reality technology is also used for training purposes. The computer helps to know the news about the mother's womb.

Business

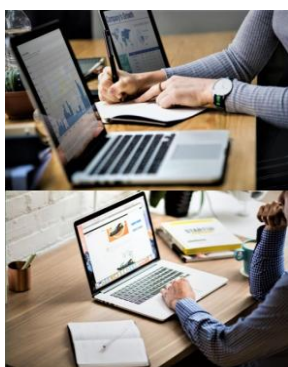


Figure no.15 application of business

Today, computers are used completely in business. We know that the main purpose of business is selling processing, which

involves selling with suppliers, employees, or customers. Computers make this transaction easy. Humans can easily analyze investments, sales, investments, markets, and other aspects of business using computers. We can never modernize business without computers.

Government



Figure no.16 application of government

The importance of computer use in this modern age in various departments of the public sector is immense. Because the work of data processing is completed using the computer, a database of citizens of the country can be stored and various information of paperless citizens can be stored. Computers have become a very useful tool in maintaining the databases of the powerful defense forces of the country and in the development of their missiles.

Banking



Figure no.17 application of banking

The role of computers in our banking sector is no less. This is because computers are used to store customer addresses and details and to use ATMs to withdraw and deposit money and manage their transactions. Banks have greatly reduced various errors and financial costs through computers.

Science and Engineering

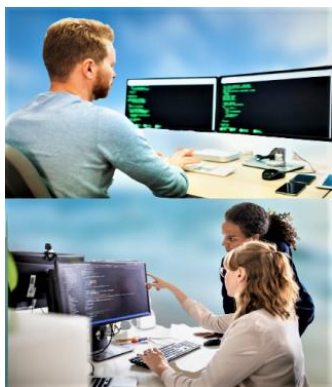


Figure no.18 application of science and engineering

The use of our computer is no less in the field of science and engineering work. Computers are used to maintain dynamic

processes in high and high-efficiency computer science and engineering. Using computers, scientists use computers to analyze data plots to better understand topographic images and earthquakes.

Entertainment



Figure no.19 Application of Entertainment

Computers play an important role in entertainment. Because online games can be played on a computer with the help of the internet. Computers work as virtual entertainers for listening to music, watching live news, and sharing information in a very short time. Computer music helps to record recorded videos. Using a computer, it is possible to watch videos on a full screen like a television. With the help of photo editors, it is possible to create excellent pictures through the computer.

CONCLUSION

The computer is an exciting technology that has many benefits and applications. A computer consists of two components, hardware, and software, without each other, the computer would have no function. Computers are an essential part of our lives, and the use of computers in education has increased dramatically in the last 10 years. The computer is a very flexible and powerful tool and it is a tool that, files and documents, especially those in open standard formats, can be manipulated using different software tools, not just part of specific software. Computer. What started as a giant calculator can now communicate with people around the world. By using a computer we can talk to parents and grandparents and relatives. Today computer technology is present in almost everything. So it can be said that the role of the computer in our modern world is immense.

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