Санкт-Петербургский Национальный Исследовательский Университет ИТМО

**РЕЦЕНЗИЯ**

«Документальный фильм об информатике и компьютерах»

Поток: ИНТ 2.1

Преподаватель: Белоусов Александр Сергеевич

Выполнил студент: Фам Данг Чунг Нгиа

Учебная группа: P3121

Курс: 1

Санкт- Петербург

2023

In this electronic universe, where excellence meets existence, computers play an important role as a bridge that brings us to the creators and rich sources of knowledge in the modern age. Faced with a massive flow of information, we clearly see the value and power of information, which many consider a valuable resource of this era. Our history sees constant innovation in communication and information processing. From ancient counting devices, to the arrival of high-speed computers in the 20th century, we have witnessed a revolution in the ability to process and transmit information. Computers, from giant ones that occupy the room to modern thin and powerful ones, have reshaped the way we interact with the world around us.

The culmination of the development is perhaps the creation of a processor on thin silicon crystals, which opens up the ability to process a multitude of elements and perform the basic functionality of the computer. The flexibility and speed of computers have transformed many aspects of everyday life, from booking air tickets to a convenient and efficient learning process. Not only are computers tools, but they are also a source of encouragement for advancement in science and technology. It not only opens up new opportunities in automated production and numerical control, but also challenges us with personal ideas and creations. So, computers are not only a technological tool, but also a source of inspiration and power. It helps us build space with endless exchanges, discover knowledge and create a potential electronic universe, waiting for discovery and innovation.

The process of collecting, storing, processing, and transmitting information has undergone great transformation since the need for information became widespread in everyday life. The printing of books not only became faster, but also simplified, allowing easy text adjustment before reprinting. The library, which represents the treasure of knowledge, can now be stored in virtual memory, ready to cater to all needs. One can see the opposition between the convenience of electronic communication and the loyalty to traditional printed books. Despite the prediction of a world that no longer needs paperwork, many remain firmly connected to books, promoting innovation in architecture and artistic language. Architecture is not only about independent buildings, but also about the artistic feel of the entire city. Words and computational models share a deep meaning with the size and connection of different components. Designers believe that the development of computers comes primarily from more advanced architectural solutions and a combination of structural models in virtual machines.

The keyboard plays an important role as an input device, emphasizing the relationship between humans and computer systems. At the same time, output devices such as monitors and printers use various input media. Computers not only process information, but also make it efficient to store and transmit information. Three types of storage devices reflect the specific purpose of storing information, from information that changes frequently to information that needs to be kept intact. Processors and memory are important components, connected to each other through the bus. Finally, the existence of computers depends primarily on computer programs. This helps the computer perform basic tasks and change information at will. Binary values, digit sequences and basic elements of the computer trigger indicate that information can effectively represent and process in a numerical environment.

The algorithm, derived from the name of the mathematician Al-Khwarizmi, who laid the foundations for four basic arithmetic operations, has become a powerful concept in denoting the sequences of actions that lead to problem solving. Used not only in the field of mathematics but also in various contexts of everyday life, algorithms can be interpreted as a specific sequence of steps to achieve a specific goal. To outline an algorithm, it is common to use special language with keywords and logical expressions. Algorithmic languages such as Algol and Pascal have become popular, often used in software research and development. This requires not only solid knowledge of algorithms, but also a deep understanding of programming languages and mathematical models. A specific example of the process of using the algorithm is when we want to solve the problem of transportation, for example, the optimal decision on the way or time. Before building a simple algorithm of the flight path of a balloon, it is necessary to understand the physical nature of the process and develop a mathematical model. Then the algorithm program enters the model and offers a solution to the problem laid out.

Computer programs not only help process information, but also open up many new applications and opportunities. The first computer creators could not predict the impact that computers would bring to life, from expanding the horizon of knowledge to promoting creativity and utility in various fields. Analyzing computer applications from the study of nuclear decay celestial bodies to the creation of three-dimensional images of the human body shows the computer's flexibility in processing information and expanding its application. Diversity in software is the determining factor in this flexibility, as computers are able to adapt to many areas and expand human creativity in the process of performing complex tasks.

The paragraph uses rich and specific descriptive language to describe the development of computers from different aspects: from history to modern applications and the impact of computers in many areas. Specific examples, such as the process of printing books and architecture, are used to illustrate ideas. Paragraphs are organized in different sections, each focusing on a specific aspect of the computer. This structure helps shape the main message and makes the content easy to track. Although the paragraph provides a lot of information and detailed descriptions, there may be a lack of dialogue about the opposing views or challenges of computers in society. The text may lack the introduction of critical views or opposite opinions, creating a positive and optimistic view of computers without mentioning challenges or controversies.

The compelling use of descriptive language, along with the clear Organization of the content, creates a full picture of the progress of the computer. The integration of images helps to illustrate and support special aspects of the computer. More visual or illustrative diversity may be needed to enhance understanding, and adding dialogue about different perspectives will make the passage richer. Every part of the paragraph is closely related to the general topic of computer development, creating a linking thread. Paragraphs can be displayed as live lectures, presentations, or can be converted into videos to attract attention. Using online platforms, like websites, blogs, or YouTube channels to share content with an extensive reader. You can encourage viewers to discuss related topics and share their views.

The paragraph contains a lot of useful and interesting information about the development of the computer, therefore, it makes sense to encourage the reader to consider. Clear and valuable content, no need to delete. More variety of images and charts may be needed to make the information more attractive. The Video can be enriched by adding dialogue snippets of different opinions about the computer and its influence. The topic of computer development is a broad and important topic, it provides an understanding of the influence of technology on everyday life and society. The Video communicates information about the development of computers, helps people understand this process and its influence in society. Videos can encourage viewers to learn more and even propose new creative ideas in the tech sector.

In conclusion, the journey through the evolution of computers unveils a fascinating narrative that spans from ancient counting devices to the cutting-edge processors of today. The paragraph has intricately detailed the transformative impact of computers on various facets of our lives, emphasizing their role as not just tools but as sources of inspiration and power. While celebrating the achievements and applications of computers, it is essential to recognize that this technological progress has not been without challenges and controversies. As we navigate this electronic universe, the paragraph prompts us to reflect on the coexistence of traditional values, like the loyalty to printed books, alongside the convenience of electronic communication. The juxtaposition of these elements highlights the nuanced relationship between the past and the future, inviting us to contemplate the role of computers in shaping our cultural landscape. Moreover, the mention of algorithms, programming languages, and the diverse applications of computer programs underscores the versatility and adaptability of computers. However, it is crucial to acknowledge that with such power comes responsibility. The paragraph, while conveying optimism, leaves room for further discussions about the ethical considerations and potential drawbacks associated with the widespread integration of computers into our daily lives. In essence, the development of computers has not only revolutionized the way we process information but has also sparked innovation, creativity, and connectivity. The narrative presented encourages viewers to delve deeper into the multifaceted realm of computer science, fostering a curiosity that may lead to new and groundbreaking ideas in technology. As we move forward, it is essential to approach the integration of computers into society with a balanced perspective, acknowledging both their merits and the challenges they may pose. Through this holistic understanding, we can navigate the electronic universe with informed enthusiasm, embracing the potential for discovery and innovation that lies ahead.