THE ROLE OF MODERN TECHNOLOGIES IN SOCIETY

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Annotation: *Modern technology revolutionizes the combination of computing and networking, which gives users more control over advanced equipment and the ability to use it. Modern technology could enhance the productivity and efficiency by allowing people to complete their tasks quickly. It allows consumers to assist in making better decisions and minimize the number of human errors by providing access to a greater amount of information.*

Key words: *modern technology, information, productivity, operation, automation, artificial intelligence, app, software, mechanical, medical, surgical, GPS, navigation, manufacturing, innovation, challenges, The Internet, communication.*

ZAMONAVIY TEXNOLOGIYALARNING JAMIYATDAGI O'RNI

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Yangi O'zbekiston taraqqiyotida tadqiqotlarni o'rni va rivojlanish omillari

Annotatsiya: *Zamonaviy texnologiyalarni hisoblash va tarmoq birikmasini inqilob qiladi, bu esa foydalanuvchilarga ilg'or uskunalar ustidan ko'proq nazorat qilish va undan foydalanish imkoniyatlarini yaratib beradi. Zamonaviy texnologiyalar odamlarga o'z vazifalarini tezda bajarishga imkon berib, mahsuldorlik va samaradorlikni oshirishi mumkin. Bu iste'molchilarga to'g'ri qarorlarni qabul qilishda yordam berish va ko'proq ma'lumotlarga ega bo'lishni ta'minlash orqali inson xatolari sonini kamaytirish imkonini beradi.*

Kalit so'zlar: *zamonaviy texnologiya, axborot, mahsuldorlik, operatsiya, avtomatlashtirish, sun'iy intellekt, ilova, dasturiy ta'minot, mexanik, tibbiy, jarrohlik, GPS, navigatsiya, ishlab chiqarish, innovatsiyalar, muammolar, Internet, aloqa.*

РОЛЬ СОВРЕМЕННЫХ ТЕХНОЛОГИЙ В ОБЩЕСТВЕ

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Аннотация: *Современные технологии революционизируют сочетание вычислительных и сетевых возможностей, что дает пользователям больший контроль над современным оборудованием и возможность его использования. Современные технологии могут повысить производительность и эффективность, позволяя людям быстро выполнять свои задачи. Они позволяют потребителям принимать более обоснованные решения и минимизировать количество человеческих ошибок, предоставляя доступ к большему объему информации.*

Ключевые слова: *современные технологии, информация, производительность, операции, автоматизация, искусственный интеллект, приложение, программное обеспечение, механика, медицина, хирургия, GPS, навигация, производство, инновации, вызовы, Интернет, связь.*

INTRODUCTION

Modern technologies are becoming increasingly complicated and increasingly interconnected. From new technologies like virtual and enhanced reality to the computing power that allows for machine learning and artificial intelligence, the world has seen incredible progress in the last few decades. It has not only increased convenience and efficiency, but also reshaped industries, education, and communication. However, with these remarkable advancements come challenges such as ethical concerns, digital dependency, and the digital divide. This article explores the multifaceted impact of modern technology, highlighting its benefits, drawbacks, and potential for shaping our future. We live in an increasingly mobile world, where people rely on their mobile devices to stay connected. Unfortunately, these devices are highly in danger to damage from drops, liquid spills, dust, extreme temperatures, and more. Not only can this kind of damage cause to expensive repair charges or interfere with critical operations, but it can also be a substantial inconvenience.

MAIN BODY

There are numerous types of modern technology, each serving distinct purposes designed to enhance the efficiency of specific processes. By gaining a deeper understanding of these various technologies, it can be discovered how they can enhance our everyday life. This knowledge can also provide valuable guidance in the technology field.

1.**Communication**

- Television sets transmit signals we can listen to and view audio and visual content. People use television for entertainment, information and news, advertisements and marketing, and educational purposes, among other activities.

- The Internet is considered the most popular and powerful communication technology. It allows people from around the world to interact through written messages and audio and video messages in real-time.

- Cell phones are a modern improvement over the telephone, enabling the transfer of text, audio, and video content over the internet. With a cell phone, people can call other phones and converse with people worldwide.

2. **Electrical**

- Computers are vital in storing and retrieving information, performing complex mathematical and scientific calculations, and executing software. Apart from simpler tasks, they are also used in machine learning applications, big data analytics, and robotic and automation tasks.

- Artificial intelligence is a computer system designed to make decisions and perform actions autonomously. Many of our daily tasks have varying degrees of artificial intelligence sophistication. For example, online navigation apps use

artificial intelligence to analyze the best route for a traveler based on traffic, road closures and more.

- Audio and visual technology comprises items such as cameras, microphones and projectors. The systems use sensors to convert analog signals, here light and sound, to digital data. Their purpose is to capture and display audio and visual mediums to users.

3**. Energy**

- Solar panels harness sunlight to generate electricity. People use these panels to power buildings, homes, outdoor lighting systems, water heating systems and more.

- Wind turbines use the kinetic energy of the wind to generate electricity. Wind turbines are typically tall pillars located in open plains or within the ocean where winds are the strongest.

- Batteries store energy for later consumption, and people use these to power other forms of technology, such as a television remote. They range in size-from small batteries in items such as watches to larger batteries for use inside cars or large solar panel installations.

4. **Mechanical**

- Manufacturing technology aims to produce goods faster and in a more cost-effective manner. A popular example of manufacturing technology is an assembly line, which greatly improved the speed of production processes.

- Heavy engineering technology helps professionals perform tasks such as building bridges or digging tunnels and other construction activities more precisely, accurately and easily while improving safety. For example, using robotics in heavy engineering has eased tasks like bricklaying and concrete pouring.

5. **Medical**

- Diagnostic technology helps medical professionals attain more information about a patient. Examples of diagnostic technology include thermometers, MRIs, X-ray machines, electrocardiographs and stethoscopes. The tools can help medical professionals diagnose conditions, assess injuries and plan appropriate treatments without invasive procedures.

- Surgical technology allows surgeons to perform complex operations. Some recent examples include smart surgical glasses that display essential information directly within a surgeon's glasses and remote robotics, which allow surgeons to operate remotely with increased precision.

6. **Transportation**

- GPS, or a Global Positioning System, is a technology that can pinpoint locations on Earth from satellites in Earth's orbit. The satellites emit signals that are received by GPS receivers in devices on the ground. GPS can accurately determine a

device's location by triangulating signals from multiple satellites.

- Flight technology has become safer and more efficient over time due to innovations in materials, aerodynamics and engineering. We use flight technology in several ways—from the construction of planes to navigation equipment on an aircraft.

CONCLUSION

In conclusion, modern technologies have profoundly transformed our daily lives, enhancing communication, improving access to information, and driving innovation across various sectors. While they offer numerous benefits, it is essential to remain mindful of the potential challenges and ethical considerations they present. It has also had some negative consequences. Nevertheless, there is no doubt that the impact of modern technology in areas like security, agriculture, manufacturing, and innovation is mind-blowing.

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