

УДК 004.5

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ANALYSIS OF EXISTING METHODS AND TOOLS FOR DESIGNING COMPUTER SYSTEM INTERFACES

Interface design is one of the most important factors affecting the satisfaction and efficiency of users when using CS interfaces.

Currently, there are many interface design methods and tools that help provide users with a convenient and efficient interface for interacting with the system.

With the large number of design methods and tools, there is also a problem when choosing them, so it is necessary to analyze the methods and tools to understand which and when methods and tools are used in the design of the CS interface, and how they can be improved, for example, using AI, which is now very actively developing, so this topic is relevant today.

As the research has shown, there are several main methods and tools of CS interface design that designers use to design CS interfaces.

One of the approaches to designing a computer system interface is to use the concept of a ‘smart’ or ‘adaptive’ interface. This approach involves creating an interface that can adapt to the needs of users and provide a more personalized user experience.

Another popular method of interface design is the use of Google's Material Design. This approach involves the use of visual effects such as shadow and relief to create a feeling of three-dimensionality and realism. Material Design also recommends the use of animations to enhance the user experience.

Another example of an existing method is Apple Human Interface Guidelines. It is mainly used for mobile applications for IOS and MacOS operating systems.

Unfortunately, there is no single, best method and tool for designing CS interfaces, so the designer needs to be thoughtful when choosing them. When designing an interface, designers can use only one of the above methods, or use concepts from all methods at once, depending on many factors. For example, the device and OS for which the interface is being designed, and the choice of method can also be influenced by the programming language that will be used for the program or application.

Artificial intelligence, which has been developing very rapidly recently, is already being used by more and more specialists, and even very large corporations such as Google or Microsoft have already started to implement it in their products. That's why design methods are already starting to change with the help of AI.

To summarize, we can say that design methods and tools, on the one hand, exist to unify some solutions for the design of CS interfaces, but on the other hand, their choice and use form new problems that can be solved by improving methods and tools with the help of AI, which is now actively happening.