

14 Lecture - CS408

Important Subjective

What is interaction in the context of Human-Computer Interaction (HCI)?

Answer: Interaction in HCI refers to the exchange of information and actions between users and computer systems, facilitated by various input and output channels.

Why is usability an important aspect of interaction in HCI?

Answer: Usability is important in HCI because it determines how effectively and efficiently users can interact with a system to achieve their goals, ultimately influencing the overall user experience and satisfaction.

What are some examples of input devices used in HCI?

Answer: Examples of input devices used in HCI include keyboards, mice, touchscreens, voice recognition, and gesture recognition.

What role does feedback play in interaction design?

Answer: Feedback provides users with information about the system's state and response to their actions, helping them understand the consequences of their actions and make informed decisions.

What is context awareness and why is it important in interaction design?

Answer: Context awareness is the ability of a system to adapt its behavior based on the user's context, such as the user's location, task, and environment. It is important in interaction design as it enables tailored interactions that are more relevant and meaningful to users.

What are modalities in HCI?

Answer: Modalities in HCI refer to the different ways in which users can interact with a system, such as touch, voice, gesture, or eye gaze.

Why is task analysis important in designing interactions?

Answer: Task analysis helps designers understand the tasks that users need to perform with a system, enabling them to design interactions that support those tasks and streamline the task completion process.

What is user-centered design and why is it significant in HCI?

Answer: User-centered design is an approach that prioritizes the needs, abilities, and preferences of users in the design and development of interactive systems. It is significant in HCI as it ensures that interactions are designed with the users' perspective in mind, resulting in more usable and effective systems.

What are some strategies for error prevention and recovery in interaction design?

Answer: Strategies for error prevention and recovery in interaction design include providing clear instructions, using error messages, and offering undo/redo functionalities.

How do aesthetics and affective computing play a role in interaction design?

Answer: Aesthetics and affective computing involve designing interactions that evoke emotional responses from users, enhancing user satisfaction and enjoyment, and ultimately influencing their overall experience with the system.