

8 Lecture - CS408

Important Subjective

What are human input channels in HCI?

Answer: Human input channels in HCI refer to the ways through which humans communicate with computers, such as keyboards, mice, touchscreens, voice, and gestures.

What is the significance of keyboards as an input channel in HCI?

Answer: Keyboards are one of the oldest and most widely used input channels in HCI, allowing users to input text, numbers, and other characters efficiently.

What is a mouse in the context of HCI?

Answer: In HCI, a mouse is an input channel that allows users to control the movement of a cursor on a screen, enabling interaction with graphical user interfaces (GUIs) and object manipulation.

How do touchscreens function as an input channel in HCI?

Answer: Touchscreens allow users to interact with computers by directly touching the screen with their fingers or a stylus, enabling gestures like tapping, swiping, and pinching to control the interface.

What is voice input in HCI?

Answer: Voice input in HCI involves users interacting with computers by speaking commands, dictating text, or having a conversation with a virtual assistant.

How do gestures function as an input channel in HCI?

Answer: Gestures involve using body movements or hand motions to interact with computers, such as waving, using a stylus on a digital drawing tablet, or using body movements in virtual reality environments.

What are human output channels in HCI?

Answer: Human output channels in HCI refer to the ways through which computers communicate information to humans, such as displays, audio, haptic, and olfactory feedback.

What is the most common output channel used in HCI?

Answer: Displays are the most common output channels used in HCI, providing visual feedback to users in the form of text, images, videos, and graphical elements.

What is haptic feedback in HCI?

Answer: Haptic feedback in HCI involves providing tactile sensations, such as vibrations or force feedback, to users to enhance the user experience and provide a more immersive interaction with computers.

How is olfactory output used in HCI?

Answer: Olfactory output, which involves providing information to users through smell, is less common but has been explored in areas such as gaming to enhance the user experience.