

6 Lecture - CS408

Important Mcqs

Which cognitive framework explains how humans process information in stages, including perception, attention, memory, and decision-making?

- A. Mental Models theory
- B. Information Processing Model
- C. Theory of Visual Attention
- D. Dual-Coding Theory

Answer: B. Information Processing Model

What does the Gulf of Execution refer to in HCI?

- A. Gap between users' intentions and actions
- B. Gap between system's feedback and user's interpretation
- C. Gap between users' prior knowledge and system's behavior
- D. Gap between visual and verbal information processing

Answer: A. Gap between users' intentions and actions

What does the Theory of Visual Attention study in the context of HCI?

- A. How humans process and store visual and verbal information
- B. How users develop mental representations of system behavior
- C. How humans allocate attention to visual stimuli
- D. How users perceive and interpret system feedback

Answer: C. How humans allocate attention to visual stimuli

What does the Dual-Coding Theory explain in the context of HCI?

- A. How users develop mental representations of system behavior
- B. How humans allocate attention to visual stimuli

C. How humans process and store visual and verbal information

D. How users perceive and interpret system feedback

Answer: C. How humans process and store visual and verbal information

Which cognitive framework suggests that users develop mental representations of how a system works based on their prior knowledge and experiences?

A. Mental Models theory

B. Information Processing Model

C. Theory of Visual Attention

D. Dual-Coding Theory

Answer: A. Mental Models theory

What is the Gulf of Evaluation in HCI?

A. Gap between users' intentions and actions

B. Gap between system's feedback and user's interpretation

C. Gap between users' prior knowledge and system's behavior

D. Gap between visual and verbal information processing

Answer: B. Gap between system's feedback and user's interpretation

How can cognitive frameworks be applied in the design of user interfaces in HCI?

A. By considering factors such as perception, attention, memory, decision-making, and mental models of users

B. By aligning with users' intentions and actions

C. By optimizing the use of visual and verbal elements

D. By providing clear feedback and intuitive navigation

Answer: A. By considering factors such as perception, attention, memory, decision-making, and mental models of users

Which cognitive framework studies how humans allocate attention to different visual stimuli?

A. Mental Models theory

- B. Information Processing Model
- C. Theory of Visual Attention
- D. Dual-Coding Theory

Answer: C. Theory of Visual Attention

Why is understanding users' mental models important in HCI?

- A. To optimize the use of visual and verbal elements
- B. To minimize the Gulf of Execution
- C. To align with users' expectations and prior knowledge
- D. To provide clear feedback and intuitive navigation

Answer: C. To align with users' expectations and prior knowledge

What does the Dual-Coding Theory suggest in the context of HCI?

- A. How users develop mental representations of system behavior
- B. How humans allocate attention to visual stimuli
- C. How humans process and store visual and verbal information
- D. How users perceive and interpret system feedback

Answer: C. How humans process and store visual and verbal information