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Courses » Multimodal Interaction

Announcements

Course

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Unit 11 - Week 4: Virtual Environments

Register for Certification exam

Course outline

How to access the portal

Week 1: Multimedia and Multimodality

Week 1 : Hearing and Speech

Week 1: Vision

Week 2: Other Senses

Week 2: Multimodal Perception

Week 2: Human Multimodal Interactions (non verbal signs)

Week 3: Multimodal Input Systems

Week 3: Multimodal Output Systems

Week 4: Multimodal Interactive

Assignment 4

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2019-03-27, 23:59 IST.

1) Which statement describes the usage of a Wizard-of-Oz approach 1 point for iterative design correctly?

The wizard selects from the possible system actions one after another, until the user signalizes his satisfaction

In the beginning the wizard replaces much functionality and over several trials the system functionality is extended

The user tries to reach his goal with the (simulated) system, until he found the correct way to use the system

No, the answer is incorrect.

Score: 0

Accepted Answers:

In the beginning the wizard replaces much functionality and over several trials the system functionality is extended

2) Which system functionalities can be replaced by trained human in a **1** point Wizard-of-Oz testing of a multimodal system?

Automatic speech recognition (i.e. the wizard types in the text uttered by the user)

Distance measurement (i.e. the wizard types in the distance between the eyes of the user

Emotion recognition (the wizard selects the current basic emotion of the user on the basis of his face and voice)

The wizard copies and pastes automatically recognized text to search appropriate results in a database

No, the answer is incorrect.

Score: 0

Accepted Answers:

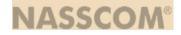
Automatic speech recognition (i.e. the wizard types in the text uttered by the user)
Emotion recognition (the wizard selects the current basic emotion of the user on the basis of his face

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Introduction to Audio for Virtual Reality	Hybrid approaches ACT-R	
Spatial Hearing	None of those	
Dummy Heads	No, the answer is incorrect.	
Individuality of HRTFs	Score: 0 Accepted Answers:	
Sterophony	None of those	
CrosstalkCancelation	4) Which is the correct order of different stages in the Reality-Virtually 1 point Continuum?	
Ambisonics	Real Environment, Augmented Reality, Augmented Virtuality, Virtua	
Sound Field Synthesis	Environment Virtual Environment, Augmented Reality, Augmented Virtuality, Real Environment	
Challenges with Projection-based Systems	Real Environment, Augmented Virtuality, Augmented Reality, Virtual Environment Augmented Virtuality, Augmented Reality, Real Environment, Virtual Environment	
Caputring of Sound Scenes	No, the answer is incorrect. Score: 0	
Closing Remarks	Accepted Answers: Real Environment, Augmented Reality, Augmented Virtuality, Virtual	
Quiz : Assignment 4	Environment	
Slides Virtual Environments	5) Based on Reality-Virtuality Continuum, select the terms that can be 1 point considered as part of Mixed Reality	
Week 4 feedback : Multimodal Interaction	Real Environment Augmented Reality Augmented Virtuality	
DOWNLOAD VIDEOS	Virtual Environment	
TRANSCRIPTION	No, the answer is incorrect. Score: 0	
	Accepted Answers: Augmented Reality Augmented Virtuality	
	6) Select the correct statement about immersion in virtual a point environments	
	Immersion can be mental and physicalImmersion can be only mental	
	Immersion can be only physical	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: Immersion can be mental and physical	
7) What is a haptic example of augmented Virtuality?		
 Inserting a real video stream (e.g., video conferencing) into a virtual environment 		
Directing the smell of coffee grounds to a user when s/he passes near a virtual coffee maker in the virtual environment		
	Turning on a fan in front of the user when s/he approaches a spot in the virtual environment that is exposed to wind	

No, the answer is incorrect. Score: 0	
Accepted Answers: Turning on a fan in front of the user when s/he approaches a spot in the virtual environ exposed to wind	nment that is
8) A sound source is left from a person. What does that mean for the interaural time difference (ITD)?	1 point
The ITD is zero	显
The ITD is greater than zero	R
The ITD is greater than zero The ITD is less than zero	(V)
No, the answer is incorrect. Score: 0	
Accepted Answers: The ITD is greater than zero	
9) Which statements about dummy heads are true?	1 point
Dummy heads mimic human anthropometry	
Dummy heads are used to measure head-related transfer functions	
One advantage of dummy heads is that the need only one microphone	
Recordings with dummy heads are can be realized with one loudspeaker	
No, the answer is incorrect. Score: 0	
Accepted Answers: Dummy heads mimic human anthropometry Dummy heads are used to measure head-related transfer functions Recordings with dummy heads are can be realized with one loudspeaker	
10)Which statement about the ventriloquist effect is true?	1 point
Appropriate visual perceptions can compensate individual deviations of head-retransfer functions	elated
The ventriloquist effect describes effects of temporally slightly different audio a signals	and video
If a sound source moves, the perceived sound depends on whether a person can source or not	see the
No, the answer is incorrect. Score: 0	
Accepted Answers: Appropriate visual perceptions can compensate individual deviations of head-related tfunctions	ransfer
11)Where can the phantom source be placed in sterophony?	1 point
Between the left and right loudspeaker	
Up to 30° left/right from the left/right loudspeaker	
Up to 30° left or right from the center between the two loudspeakers	
No, the answer is incorrect. Score: 0	
Accepted Answers: Between the left and right loudspeaker	
12Which statement about the wave field synthesis is correct?	1 point

It works for one user and one virtual sound source	
It works for multiple users and multiple virtual sound sources	
It works for multiple users and one virtual sound source	
No, the answer is incorrect. Score: 0	
Accepted Answers: It works for multiple users and multiple virtual sound sources	
13)What is the main problem with virtual environments using projection walls and loudspeaker systems?	g 1 point
Sound that is reflected by the projection walls	
The ventriloquist effect does not work At least 12 loudspeakers are necessary	
No, the answer is incorrect. Score: 0	<u> </u>
Accepted Answers: Sound that is reflected by the projection walls	
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