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NPTEL

Courses » Multimodal Interaction

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Unit 9 - Week 3: Multimodal Output Systems

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

● Introduction

● Icons

Assignment 3

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.   **Due on 2019-03-20, 23:59 IST.**

1) Which set of interaction modality classes of Bernsen (1999) describes *text on a screen* correctly?   *1 point*

○ Non-linguistic, graphical, static
○ Linguistic, graphical, static
○ Linguistic, graphical, dynamic
○ Non-Linguistic, acoustic, static
○ Linguistic, acoustic, dynamic

No, the answer is incorrect.
Score: 0

Accepted Answers:
Linguistic, graphical, static

2) Which set of interaction modality classes of Bernsen (1999) describes *speech-synthesis over loudspeaker* correctly?   *1 point*

○ Non-linguistic, graphical, static
○ Linguistic, graphical, static
○ Linguistic, graphical, dynamic
○ Non-Linguistic, acoustic, static
○ Linguistic, acoustic, dynamic

No, the answer is incorrect.
Score: 0

Accepted Answers:
Linguistic, acoustic, dynamic

3)

A project of

NPTEL National Programme on Technology Enhanced Learning

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1 point

4) An automatic speech recognition system is fed with the following
sentences:

Hello Anna, can you come tomorrow evening? We only need one more
confirmation and then we are ready to go. Hope to see you soon

The system recognizes the following:

Hello Anna, can can you please come tomorrow evening? We only
need one sure confirmation and then we ready to go to. Hope to see you

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Numeric) 0.24

0 points

5) Which context factors do NOT affect automatic speech recognition? *1 point*

○ Vocabulary size

○ Background noise

○ Speaker variability

○ Grapheme set

No, the answer is incorrect.
Score: 0

Accepted Answers:
Grapheme set

Based on the below diagram, Answer Question 6-10

6)   *1 point*

What is the related term/function of the module **below box A** in the
shown schema of the source-filter model?

○ Formants

○ voiced

○ Fricatives

○ Vowels

○ unvoiced

No, the answer is incorrect.
Score: 0

Accepted Answers:
Vowels

7) What is the related term/function of the module **above box B** in the *1 point*
shown schema of the source-filter model?

○ Formants

○ voiced

○ Fricatives

○ Vowels

○ unvoiced

No, the answer is incorrect.
Score: 0

Accepted Answers:
voiced

8) What is the related term/function of the module **above box C** in the *1 point* shown schema of the source-filter model?

- ⚪ Formants
- ⚪ voiced
- ⚪ Fricatives
- ⚪ Vowels
- ⚪ unvoiced

No, the answer is incorrect.
Score: 0

Accepted Answers:
unvoiced

9) What is the related term/function of the module **above box D** in the *1 point* shown schema of the source-filter model?

- ⚪ Formants
- ⚪ voiced
- ⚪ Fricatives
- ⚪ Vowels
- ⚪ unvoiced

No, the answer is incorrect.
Score: 0

Accepted Answers:
Fricatives

10) What is the related term/function of the **module above box E** in *1 point* the shown schema of the source-filter model?

- ⚪ Formants
- ⚪ voiced
- ⚪ Fricatives
- ⚪ Vowels
- ⚪ unvoiced

No, the answer is incorrect.
Score: 0

Accepted Answers:
Formants

11) *1 point*

Given the diagram above, which basic emotions can be sufficiently classified the pitch of the voice?

- ⚪ All
- ⚪ None
- ⚪ Happy
- ⚪ Sad

○ Angry

○ Dislike

○ Surprise

○ Fear

No, the answer is incorrect.
Score: 0

Accepted Answers:
None

12) Which statement is true for auditory and visual information in   *1 point*
emotion recognition?

    ○ Most basic emotions are equally strong represented in audio and video

    ○ Most basic emotions are either video-dominated or audio-dominated

No, the answer is incorrect.
Score: 0

Accepted Answers:
Most basic emotions are equally strong represented in audio and video

13) A certain multimodal system uses features from audio, video and   *1 point*
physiological signal to classify user input. How many classifiers are needed
in this system, if it uses a *decision fusion*?

    ○ 1

    ○ 2

    ○ 3

    ○ 4

No, the answer is incorrect.
Score: 0

Accepted Answers:
3

14) What is the correct definition of an icon?   *1 point*

    ○ An icon is a sign that relates to an object through its similarity

    ○ An icon is a sign that relates to an object through a direct causal relationship

    ○ An icon is a sign that relates to an object through an arbitrary or conventional
relationship

No, the answer is incorrect.
Score: 0

Accepted Answers:
An icon is a sign that relates to an object through its similarity

15)   *1 point*

     Which of the images A, B and C is related to ligations?

    ○ A

    ○ B

    ○ C

No, the answer is incorrect.
Score: 0

Accepted Answers:

B

16) Select the correct ending of the following statement.   ***1 point***
In a proportional font, all characters …

○ … have the same height

○ … have individual heights

○ … have the same width

○ … have individual widths

No, the answer is incorrect.
Score: 0

Accepted Answers:
… have the same width

17) Select the parameter of microtypography that is optimized by   ***1 point***
kerning.

○ Line spacing

○ Character spacing

○ Character height

○ Line height

○ Word spacing

○ Hyphenation

No, the answer is incorrect.
Score: 0

Accepted Answers:
Character spacing

18) The pronunciation of foreign words is covered by which step of   ***1 point***
symbolic pre-processing?

○ Text pre-processing

○ Exception handling

○ Morphological analysis

○ Word intonation

○ Grapheme-to-phoneme

○ Word categories

○ Syntactic-prosodic analysis

No, the answer is incorrect.
Score: 0

Accepted Answers:
Exception handling

19) Select the approach for speech generation that provides usually the ***1 point***
best (i.e. most natural sounding) speech.

○ Parametric synthesis

○ Concatenative synthesis (e.g. PSOLA)

○ Unit-Selection synthesis

○ HMM-based synthesis

No, the answer is incorrect.
Score: 0

Accepted Answers:
Unit-Selection synthesis

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