

Huawei Certified Solutions Architect

1. (Judgment) Back propagation is a common method used to train artificial neural networks.

A. TRUE

B. FALSE

Answer(s): A

2. What are the processing procedures included in image digitization? (Multiple choices)

A. Binarization

B. Quantification

C. Grayscale transformation

D. Sampling

Answer(s): A B C D

3. How many brightness changes can a 4-bit image distinguish? (Single choice)

A. 8

B. 16

C. 128

D. 256

Answer(s): A

4. Modifying the H component of the HSV color space will change the image? (Single choice)

A. Hue

B. Brightness

C. Saturation

D. Contrast

Answer(s): D

5. (Judgment) The background difference method is to use the current frame in the image sequence and the background reference model for subtraction, which can realize the detection of moving objects in the image.

A. TRUE

B. FALSE

Answer(s): A

6. (Judgment) The image filter operation is also called template operation. The commonly used template operations include template convolution and template sorting.

A. TRUE

B. FALSE

Answer(s): B

7. What is the use process of ModelArts automatic learning? (Single choice)

A. Deploy online -> Model training -> Data annotation

B. Model training -> data annotation -> deployment online

C. Data annotation -> model training -> deployment online

D. Data annotation -> deployment online -> model training

Answer(s): C

8. The image target detection algorithm needs to be completed? (Multiple choice)

A. Calculation of target position

B. Judgment of target category

C. Calculation of confidence

D. Calculation of target edge

Answer(s): A B C D

9. (Judgment) Image feature extraction is a dimensionality reduction idea, which can effectively reduce the amount of image data.

A. TRUE

B. FALSE

Answer(s): A

10. Convolve a pair of three-channel color images with two 3x3 convolution kernels. How many channels does the resulting feature map have? (Single choice)

A. 1

B. 2

C. 3

D. 4

Answer(s): C

11. What are the speech synthesis methods? (Multiple Choice)

A. Formant synthesizer

B. Series formant synthesizer

C. Parallel formant synthesizer

D. PSOLA method

Answer(s): A B C D

12. (Judgment) The Gaussian model is to accurately quantify things with a Gaussian density function, and decompose a thing into several models based on Bernoulli distribution.

A. TRUE

B. FALSE

Answer(s): A

13. What algorithm engines are supported by ModelArts training assignments? (Multiple Choice)

A. PyTorch

B. MXNet

C. Spark MLlib

D. TensorFlow

Answer(s): A B C D

14. Named entity recognition refers to recognizing entities with specific meanings in the text. Which ones are mainly included? (Multiple Choice)

A. Name

B. Place name

C. Organization name

D. Time

E. Date

Answer(s): A B C D E

15. (Judgment) TF-IDF is a calculation method based on statistics, which is often used to evaluate the importance of a word in a document set to all documents.

A. TRUE

B. FALSE

Answer(s): A

16. Which of the following options is not a commonly used algorithm for keyword extraction? (Single choice)

A. TF-IDF

B. TextRank

C. SSA

D. LDA

Answer(s): C

17. How many sources does the data set in ModelArts data management have? (Multiple Choices)

- A. Upload and create local files from OBS.
- B. Import from the ModelArts market.
- C. After the data is marked, it is released into a data set.
- D. Upload and create local files from the web page.

Answer(s): A B C

18. (Judgment) In general, Huawei's artificial intelligence development strategy is based on continuous investment in basic research and AI talent training, creating a full-stack full-scenario AI solution and an open global ecology.

A. TRUE

B. FALSE

Answer(s): A

19. What are the main functions of MoXing? (Single choice)

A. Deep learning tool library developed by Huawei

B. Deep learning engine developed by Huawei

C. Package and acceleration of distributed training acceleration framework and API interface of deep learning engines such as TensorFlow

D. Simple encapsulation of API interfaces for deep learning engines such as TensorFlow

Answer(s): C

20. Which preset models does ModelArts currently support? (multiple choices)

A. Gene sequencing

B. Object detection

C. Image classification

D. Image segmentation

Answer(s): B C D
