

Knowledge representation for visual cognition

Total points 2/4

The respondent's email (m22cs060@iitj.ac.in) was recorded on submission of this form.

✓ Which of the followings are examples of model-based reasoning * 1/1

- ☒ Reasoning with a set of logic statements ✓
- ☒ Reasoning with a frame-based knowledge representation ✓
- ☐ k-nearest neighbour classifier
- ☐ Use of a Convolutional Neural Network



✗ Which of the following statements are true? *

0/1

- ☐ An emergent system is generally faster than a symbolic system
- ☒ Inference from an emergent system is explainable ✗
- ☒ An emergent system is more suitable than a symbolic system for perceptual data processing ✓
- ☒ Human mind emulates both symbolic and emergent systems ✓

Correct answer

- ☒ An emergent system is generally faster than a symbolic system
- ☒ An emergent system is more suitable than a symbolic system for perceptual data processing
- ☒ Human mind emulates both symbolic and emergent systems



✗ Allen relations are shown in the following figure.


*0/1

If the relations between pairs of finite events (A,B) and (B,C) are specified as

A meets B

B meets C

The following relations are possible between A and C

Captionless Image

- ☐ A before C
- ☐ A overlaps C
- ☒ A meets C
- ☐ A equals C

✗

Correct answer

- ☒ A before C



✓ In the bit-encoding scheme by Papadias, the relation "B started by A" is represented as (A is the reference event) *1/1

You may refer to the Allen's relations in the previous question.

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