

Neural network based attention models

Total points 5/5

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

✓ Which of the following are the outputs from the decoder in an Attention-Based Neural Network (AB-RNN)? *1/1

- ☒ Next location to be attended to ✓
- ☐ The location of the salient object in the scene
- ☒ An action, like navigating a car ✓
- ☐ The parameters for the encoder network



✓ "Hard attention" means *

1/1

- ☐ Cases where saliency is hard to decide
- ☒ Allocation of binary saliency value to any image location ✓
- ☐ Algorithms for attention computations, which are NP-hard
- ☐ Allocation of highest saliency values to hard (rigid) objects in a scene

✓ In NN-based attention models, multi-scale analysis is done to *

1/1

- ☐ To improve computational efficiency
- ☒ To capture context as well as finer details (contrasts) ✓
- ☐ Accomodate objects of different sizes



✓ Why is a CNN pre-trained for object recognition used for implementing NN-based attention models? *1/1

- ☒ Saliency is determined by objects in the scene ✓
- ☒ The pre-trained networks are trained with millions of training samples ✓
- ☐ The pre-trained networks have been developed by eminent scientists
- ☒ Large training databases for saliency models do not exist ✓

✓ In the representation of "Glimpse" * 1/1

- ☐ There is no relation between the representation of the central and the outermost areas
- ☐ Less number of bytes are used to represent central area than the outermost area
- ☒ Equal number of bytes are used to represent central area than the outermost area ✓
- ☐ More number of bytes are used to represent central area than the outermost area

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