

Constructing Features for Prediction

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Practice Assignment • 28 min



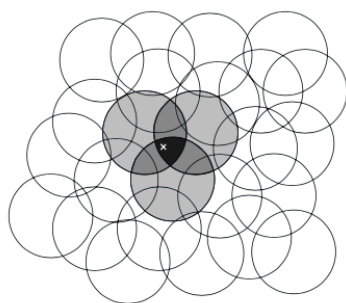
1. Which of the following is TRUE about coarse coding? (Select all that apply)

1 point

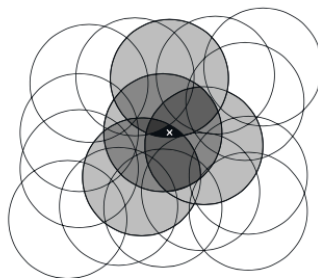
- ☒ In coarse coding, generalization occurs between states that have features with overlapping receptive fields.
- ☒ In coarse coding, generalization between states depend on the size and shape of the receptive fields.
- ☐ When using features with large receptive fields, the function approximator cannot make discriminations that are finer than the width of the receptive fields.
- ☐ When training at one state, the learned value function will be updated over all states within the intersection of the receptive fields.

2. Consider a continuous two-dimensional state space. Assuming linear function approximation with the coarse-codings in either A, B or C, which of the following is TRUE? (Select all that apply)

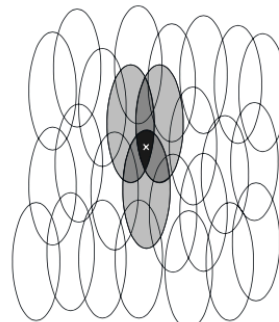
1 point



A



B



C

- ☐ Generalization is broader in case A as compared to case B.
- ☒ In case B, when updating the state marked by an 'x', the value function will be affected for a larger number of states as compared to case A.
- ☒ In case C, each update results in more generalization along the vertical dimension, as compared to horizontal dimension.
- ☐ In case C, each update results in more generalization along the horizontal