

Here are the questions from [8.3 Sequential Importance Sampling (SIS) - Quiz]

1. Try to find answer the question before you continue with the lecture!

Optional Answers:

2. Why does the weight update only depend on old weight and the likelihood of the particle, if we choose the motion model as our proposal density?

Optional Answers:

1. The motion model in the nominator of the weight update gets canceled out and only the likelihood remains!
2. We will no longer have any prediction uncertainty, The only uncertainty remaining is from the measurement.
3. None of the above!

3. Pause the video and try to find a particle trajectory that matches the true state trajectory!

Optional Answers:

Thank You