

	Week 11 > Week 11 Quiz > Week 11 Quiz
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Learning Course:	Multiple Choice
Getting Started	1/1 point (graded) In a hidden Markov model, the "hidden" portion corresponds to the
▶ Week 1	
▶ Week 2	observation sequence
▶ Week 3	● state transition sequence ✔
▶ Week 4	timestamp sequence
▶ Week 5	location sequence
▶ Week 6	
▶ Week 7	Submit You have used 1 of 1 attempt
▶ Week 8	Multiple Choice
▶ Week 9	1/1 point (graded) When we say "discrete HMM" the word "discrete" is referring to
▶ Week 10	a sequence indexed by a discrete set of time points.
▼ Week 11	 ■ a sequence of discrete valued observations.
Lecture 21 Hidden Markov Models	a sequence over a discrete set of hidden states.
Lecture 22 Continuous State- space Models	
Week 11 Quiz Quiz due Apr 11, 2017 07:30 MYT	Submit You have used 1 of 1 attempt

Week 11
Discussion
Questions

Multiple Choice

1/1 point (graded)

True or False: A continuous hidden Markov model can be thought of as a Gaussian mixture model with a Markovian transition property between clusters.

● TRUE ✓● FALSESubmit You have used 1 of 1 attempt

Multiple Choice

1/1 point (graded)

The forward-backward algorithm used for state (1), while the Viterbi algorithm is used for state (2).

ullet (1) estimation, (2) sequence learning ullet

(1) sequence learning, (2) estimation

Submit You have used 1 of 1 attempt

Multiple Choice

1/1 point (graded)

In using the EM algorithm to estimate the HMM, we are integrating out

the initial state distribution

the Markov transition matrix

the emission distribution parameters

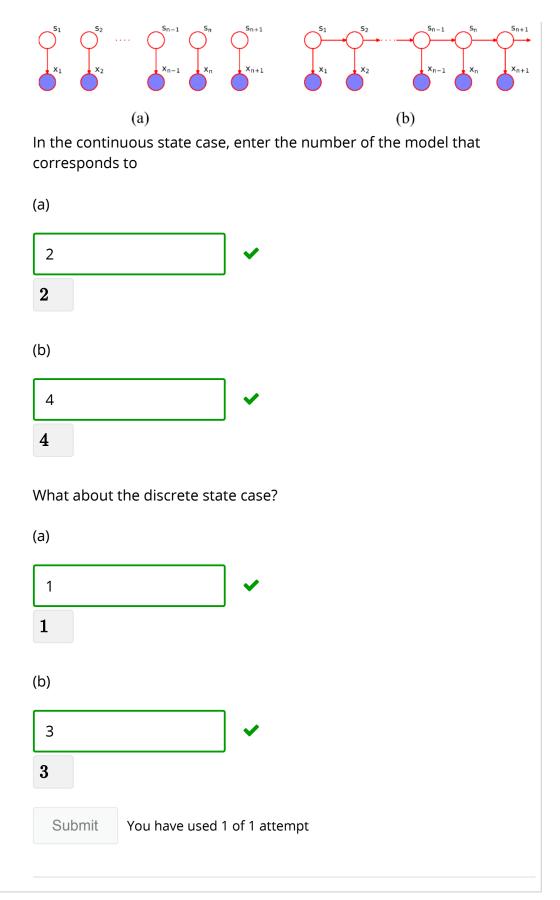
the state transition sequence Submit You have used 1 of 1 attempt Checkboxes 1/1 point (graded) As discussed in class, in a continuous state Markov model, which of the following are not learned? the state transition distribution the observation distribution the hidden state sequence ✓ the initial state location Submit You have used 1 of 1 attempt

Text Input

4.0/4.0 points (graded)

Looking at the figure below, consider the following four models we discussed in the lectures:

- 1. Gaussian mixture model
- 2. Probabilistic PCA
- 3. Continuous HMMs
- 4. Linear Gaussian Markov models



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