Discussion

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shengtatng v

★ Course / UNIT 2 / Lecture 5 - Stochastic Thinking

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()



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Exercise 1

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Lecture Sequence due Dec 15, 2022 07:30 +08 Completed

Exercise 1-1

6/6 points (graded)

99 times

For the following explanations of different types of programmatic models, fill in the blank with the appropriate model the definition describes.

	determined by pa	one whose behavior is entirely predictable. Every set of variable states is uniquely arameters in the model and by sets of previous states of these variables. Therefore, these the same way for a given set of initial conditions, and it is possible to predict precisely.
	deterministic	▼
		is one in which randomness is present, and variable states are not described by unique r by probability distributions. The behavior of this model cannot be entirely predicted.
	stochastic	▼ ▼
		does not account for the element of time. In this type of model, a simulation will give us a agle point in time.
	static	▽ ▽
	A model on that change over	does account for the element of time. This type of model often contains state variables time.
	dynamic	▼
		does not take into account the function of time. The state variables change only at a er of points in time, abruptly from one state to another.
	discrete	▼
	changes reflecte number of states	oes take into account the function of time, typically by modelling a function f(t) and the d over time intervals. The state variables change in an unbroken way through an infinite s.
	continuous	
Sub	mit	
Exerc	cise 1-2	
If you a	nts (graded) are using differen uous model?	tial equations to model a simulation, are you more likely to be doing a discrete or
	Discrete	
	Continuous	
~		
	ay you run a stoc same result?	hastic simulation 100 times. How many times do you need to run the simulation again to
	I time	

■ Calculator





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