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**EN.605.647.83.SP21 Neural Networks** 

Course Modules ... Lectures and Quizzes

BRIAN LOUGHRAN Take Test: Quiz 8.2

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Take Test: Quiz 8.2

	nation		
escription	This quiz is designed to assess your understanding of the concepts presented in 8.4.	n recorded	l lectures 8.3 and
structions	You should complete this quiz after viewing recorded lectures 8.3 and 8.4.		
ultiple ttempts	This test allows 2 attempts. This is attempt number 1.		
orce ompletion	This test can be saved and resumed later.		
Question Com	pletion Status:		
QUEST	ION 1 2	points	Save Answer
In Honfield	I networks, a state of a node is either 1 or -1.	-	
☐ True	Thetworks, a state of a flode is either 1 of -1.		
O			
○ False			
	ION 2	points	Save Answer
QUEST			
	I networks, inhibition is embodied in the network because		
In Hopfield		·	
In Hopfield	I networks, inhibition is embodied in the network because	,	
In Hopfield the dia	I networks, inhibition is embodied in the network because agonal elements are all 1's.		
In Hopfield  the dia  the sta	I networks, inhibition is embodied in the network because agonal elements are all 1's. ates variables are either -1 or 1. tate variables can have the value of -1.		
In Hopfield  the dia	I networks, inhibition is embodied in the network because agonal elements are all 1's. ates variables are either -1 or 1. tate variables can have the value of -1.	points	Save Answer
In Hopfield  the did  the sta  The s	Inetworks, inhibition is embodied in the network because agonal elements are all 1's.  ates variables are either -1 or 1.  tate variables can have the value of -1.  ION 3  Z function (the function that zeros out the diagonal elements) is applied to a trix of a Hopfield network, the diagonal elements of that weight matrix are all	points	Save Answer

Save :

QUESTION 4	2 points	Save Answer
After a matrix-vector multiplication and application of the hard-limiting activation function in a Hopfield network using bi-polar state variables, the state vector can never have an element equal to zero.	n	
○ True		
○ False		
QUESTION 5	3 points	Save Answer
Asynchronous updating essentially involves		
updating a single state variable by taking the inner product of a row in the weight matrix and the state column vector and then applying the hard-limiting function.		
performing the matrix-vector multiplication and zeroing out the entries that do not correspond to the undated node		
estion Completion Status:		
vector.		
QUESTION 6	2 points	Save Answer
The value of the Hecht-Nielsen function always decreases with each iteration.		
○ True		
○ False		

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

Save All Answers

Save