

Code No: 58016

Set No. 1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

IV B.Tech. II Sem., II Mid-Term Examinations, April-2014

ARTIFICIAL NEURAL NETWORKS

Objective Exam

Name: _____ Hall Ticket No.

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

I. Choose the correct alternative:

1. In network pruning, we start with _____ multilayer perceptron. []
a) small b) large c) very large d) complex
2. _____ of the Hessian matrix provides a basis for pruning []
a) rank b) order c) inverse d) range
3. In order to produce a significant improvement in the convergence performance of a multilayer perceptron, we have to use _____ order information in the training process []
a) lower b) very lower c) higher d) medium
4. In kohonen feature mapping model the output neurons are arranged in a dimensional lattice []
a) two b) three c) one d) four
5. SOM algorithms is _____ algorithm []
a) scalar quantization b) vector quantization c) weight quantization d) learning quantization
6. The motion of the space of states with in itself is called _____ of a dynamical system []
a) state motion b) space motion c) space protract d) Flow
7. Which of the following is not a characteristic of the neurodynamic system . []
a) linearly b) nonlinearly c) dissipative d) noise
8. Neural networks with one or more feedback loops are referred to as _____ network []
a) Recursive b) redundant c) recurrent d) real
9. n leaving one out method with N labelled examples, the experimented is repeated for a total no. of _____ times, each time leaving out a different example for validation []
a) N b) N-1 c) 0 d) N-2
10. A nonlinear dynamical systems for which the vector function $F(x(t))$ does not depend explicitly on time t is said to be []
a) Non-autonomous b) Autonomus c) strict d) Anotomy

Cont.....2

II Fill in the Blanks:

11. _____ model is useful as a content addressable memory.
12. _____ of the Hessian matrix provides a basis for pruning
13. _____ is basis to the formulation of second - order optimization methods as an alternative to back-propagation learning.
14. Quasi-Network method use _____ order (curvature) information about the error surface without actually requiring knowledge of the Hessian matrix H.
15. In network growing, we start with _____ multilayer perceptron.
16. _____ of Hessian matrix have a profound influence on the dynamics of back- propagation learning.
17. _____ is an application of a statistical method known as stochastic approximation.
18. _____ is a technique that exploits the underlying structure of input vector for the purpose of data compression.
19. Neurodynamics need a _____ for describing the dynamics of a nonlinear system.
20. In which step of the SOM algorithm, a sample is drawn from the input space with a certain probability_____

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Set No. 2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

IV B.Tech. II Sem., II Mid-Term Examinations, April-2014

ARTIFICIAL NEURAL NETWORKS

Objective Exam

Name: _____ Hall Ticket No.

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

I. Choose the correct alternative:

1. In kohonen feature mapping model the output neurons are arranged in a dimensional lattice []
a) two b) three c) one d) four
2. SOM algorithms is _ _ _ algorithm []
a) scalar quantization b) vector quantization c) weight quantization d) learning quantization
3. The motion of the space of states with in itself is called _____ of a dynamical system []
a) state motion b) space motion c) space protract d) Flow
4. Which of the following is not a characteristic of the neurodynamic system . []
a) linearly b) nonlinearly c) dissipative d) noise
5. Neural networks with one or more feedback loops are referred to as _____ network []
a) Recursive b) redundant c) recurrent d) real
6. n leaving one out method with N labelled examples, the experimented is repeated for a total no. of _____ times, each time leaving out a different example for validation []
a) N b) N-1 c) 0 d) N-2
7. A nonlinear dynamical systems for which the vector function $F(x(t))$ does not depend explicitly on time t is said to be []
a) Non-autonomous b) Autonomus c) strict d) Anotomy
8. In network pruning, we start with _____ multilayer perceptron. []
a) small b) large c) very large d) complex
9. _____ of the Hessian matrix provides a basis for pruning []
a) rank b) order c) inverse d)range
10. In order to produce a significant improvement in the convergence performance of a multilayer perceptron, we have to use _____ order information in the training process []
a) lower b) very lower c) higher d) medium

Cont.....2

II Fill in the Blanks:

11. Quasi-Newton method use _____ order (curvature) information about the error surface without actually requiring knowledge of the Hessian matrix H .
12. In network growing, we start with _____ multilayer perceptron.
13. _____ of Hessian matrix have a profound influence on the dynamics of back-propagation learning.
14. _____ is an application of a statistical method known as stochastic approximation.
15. _____ is a technique that exploits the underlying structure of input vector for the purpose of data compression.
16. Neurodynamics need a _____ for describing the dynamics of a nonlinear system.
17. In which step of the SOM algorithm, a sample is drawn from the input space with a certain probability _____
18. _____ model is useful as a content addressable memory.
19. _____ of the Hessian matrix provides a basis for pruning
20. _____ is basis to the formulation of second - order optimization methods as an alternative to back-propagation learning.

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Set No. 3

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

IV B.Tech. II Sem., II Mid-Term Examinations, April-2014

ARTIFICIAL NEURAL NETWORKS

Objective Exam

Name: _____ Hall Ticket No.

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

I. Choose the correct alternative:

1. The motion of the space of states with in itself is called _____ of a dynamical system []
a) state motion b) space motion c) space protract d) Flow
2. Which of the following is not a characteristic of the neurodynamic system . []
a) linearly b) nonlinearly c) dissipative d) noise
3. Neural networks with one or more feedback loops are referred to as _____ network []
a) Recursive b) redundant c) recurrent d) real
4. n leaving one out method with N labelled examples, the experimented is repeated for a total no. of _____ times, each time leaving out a different example for validation []
a) N b) N-1 c) 0 d) N-2
5. A nonlinear dynamical systems for which the vector function $F(x(t))$ does not depend explicitly on time t is said to be []
a) Non-autonomous b) Autonomus c) strict d) Anotomy
6. In network pruning, we start with _____ multilayer perceptron. []
a) small b) large c) very large d) complex
7. _____ of the Hessian matrix provides a basis for pruning []
a) rank b) order c) inverse d)range
8. In order to produce a significant improvement in the convergence performance of a multilayer perceptron, we have to use _____ order information in the training process []
a) lower b) very lower c) higher d) medium
9. In kohonen feature mapping model the output neurons are arranged in a dimentional lattice []
a) two b) three c) one d) four
10. SOM algorithms is _ _ _ algorithm []
a) scalar quantization b) vector quantization c) weight quantization d) learning quantization

Cont.....2

II Fill in the Blanks:

11. _____ of Hessian matrix have a profound influence on the dynamics of back- propagation learning.
12. _____ is an application of a statistical method known as stochastic approximation.
13. _____ is a technique that exploits the underlying structure of input vector for the purpose of data compression.
14. Neurodynamics need a _____ for describing the dynamics of a nonlinear system.
15. In which step of the SOM algorithm, a sample is drawn from the input space with a certain probability_____
16. _____ model is useful as a content addressable memory.
17. _____ of the Hessian matrix provides a basis for pruning
18. _____is basis to the formulation of second - order optimization methods as an alternative to back-propagation learning.
19. Quasi-Network method use _____ order (curvature) information about the error surface without actually requiring knowledge of the Hessian matrix H.
20. In network growing, we start with _____multilayer perceptron.

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Set No. 4

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ARTIFICIAL NEURAL NETWORKS

Objective Exam

Name: _____ Hall Ticket No.

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

I. Choose the correct alternative:

1. Neural networks with one or more feedback loops are referred to as _____ network []
a) Recursive b) redundant c) recurrent d) real
2. n leaving one out method with N labelled examples, the experimented is repeated for a total no. of _____ times, each time leaving out a different example for validation []
a) N b) N-1 c) 0 d) N-2
3. A nonlinear dynamical systems for which the vector function $F(x(t))$ does not depend explicitly on time t is said to be []
a) Non-autonomous b) Autonomus c) strict d) Anotomy
4. In network pruning, we start with _____ multilayer perceptron. []
a) small b) large c) very large d) complex
5. _____ of the Hessian matrix provides a basis for pruning []
a) rank b) order c) inverse d)range
6. In order to produce a significant improvement in the convergence performance of a multilayer perceptron, we have to use _____ order information in the training process []
a) lower b) very lower c) higher d) medium
7. In kohonen feature mapping model the output neurons are arranged in a dimentional lattice []
a) two b) three c) one d) four
8. SOM algorithms is _ _ _ algorithm []
a) scalar quantization b) vector quantization c) weight quantization d) learning quantization
9. The motion of the space of states with in itself is called _____ of a dynamical system []
a) state motion b) space motion c) space protract d) Flow
10. Which of the following is not a characteristic of the neurodynamic system . []
a) linearly b) nonlinearly c) dissipative d) noise

Cont.....2

II Fill in the Blanks:

11. _____ is a technique that exploits the underlying structure of input vector for the purpose of data compression.
12. Neurodynamics need a _____ for describing the dynamics of a nonlinear system.
13. In which step of the SOM algorithm, a sample is drawn from the input space with a certain probability _____
14. _____ model is useful as a content addressable memory.
15. _____ of the Hessian matrix provides a basis for pruning
16. _____ is basis to the formulation of second - order optimization methods as an alternative to back-propagation learning.
17. Quasi-Network method use _____ order (curvature) information about the error surface without actually requiring knowledge of the Hessian matrix H.
18. In network growing, we start with _____ multilayer perceptron.
19. _____ of Hessian matrix have a profound influence on the dynamics of back- propagation learning.
20. _____ is an application of a statistical method known as stochastic approximation.

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