Nije još odgovoreno

Broj bodova od 1,00

P Označi pitanje

We use the genetic algorithm to maximize f(x). Which of the following we can use as the fitness function?

$$\bigcirc$$
 1 – $f(x)$

$$0 \quad 1 - f(x)$$

$$0 \quad 1 + f(x)$$

$$0 \quad -f(x)/2$$

$$0 \quad -f(x)$$

$$-f(x)/2$$

$$-f(x)$$

Preostalo vrijeme 0:05:19

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Označi pitanje

Let w_{ij} denote the weight between the output of neuron i and the input to neuron j in an artificial network. When backpropagating the error, the weight w_{ij} will get updated. What is this weight update proportional to?

- the product between the error of neuron i and the error of neuron j
- \bigcirc the sum of the errors of neurons i and j
- the product between the output of neuron i and the error of neuron j
 - the weighted sum of the output of neuron j and the error of neuron i

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Označi pitanje

Which one of the following problems is not solvable by a single TLU perceptron?

- AND
- NOT
- O OR



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P Označi pitanje

In an Ant System algorithm, the evaporation of the pheromone trail between nodes i and j is modeled as:

$$\circ$$
 $\tau_{ij} \leftarrow \tau_{ij}(1+\rho)$

$$\bigcirc \quad \tau_{ij} \leftarrow \tau_{ij}(1-\eta)$$

$$\bigcirc \quad \tau_{ij} \leftarrow \tau_{ij} - \rho$$

Preostalo vrijeme 0:05:3/

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♥ Označi pitanje

Two chromosomes have been selected for crossover: K1=001100 and K2=010100.

Assume there is no mutation. Crossover point is after the first third (from the left). What is the result of crossover?

- 010101
- 000100
- 010100



Obriši moj odabir

Pitanje **3**

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Broj bodova od 1,00

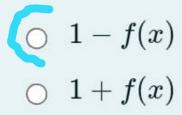
P Označi pitanje

What activation function is used in the TLU perceptron?

What activation function is used in the TLU perceptron? step function linear sigmoidal exponential Obriši moj odabir Pitanje 4 Nije još odgovoreno Broj bodova od 1,00 P Označi pitanje In an ACO algorithm, what does τ denote? the probability of selection the probability of mutation the value of the heuristic function the strength of the pheromone trail

Preustalo viljeme 0.04.5 i

We use the genetic algorithm to minimize f(x). Which of the following we can use as the fitness function?



- f(x)/2 f(x)

Pitanje 6

Nije još odgovoreno

Broj bodova od 1,00

P Označi pitanje

The factor γ in reinforcement learning serves for:

- finding a maximum-value solution
- discounting future rewards
- controlling the learning rate
- forced exploration

Nije još odgovoreno

Broj bodova od 1,00

Označi pitanje

Let w_{ij} denote the weight between the output of neuron i and the input to neuron j in an artificial network. When backpropagating the error, the weight w_{ij} will get updated. What is this weight update proportional to?

- igcup the sum of the errors of neurons i and j
- igcup the weighted sum of the output of neuron <math>j and the error of neuron i
- the product between the output of neuron i and the error of neuron j
- \bigcirc the product between the error of neuron i and the error of neuron j

w(i+1) = V Preostalo vrijeme 0:03:42

$$\bigcirc \ w(i+1) = w(i) + \eta(t-o)x(i)$$

Pitanje 6

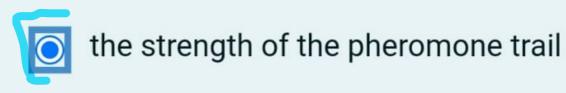
Nije još odgovoreno

Broj bodova od 1,00

Označi pitanje

In an ACO algorithm, what does au denote?

- the probability of selection
- the probability of mutation
- the value of the heuristic function



Nije još odgovoreno

Broj bodova od 1,00

Označi pitanje

In an ACO algorithm, what does τ denote?

- the probability of selection
- the probability of mutation
- the value of the heuristic function



the strength of the pheromone trail



forced explora Preostalo vrijeme 0:03:39

finding a maximum-value solution

Obriši moj odabir

Pitanje 5

Nije još odgovoreno

Broj bodova od 1,00

P Označi pitanje

The Rosenblatt's perceptron update rule is as follows (t -- target value, o -- output value):

$$w(i+1) = w(i) - \eta(t+o)x(i)$$

$$\bigcirc w(i+1) = w(i) + \eta(t+o)x(i)$$

$$w(i+1) = w(i) - \eta(t-o)x(i)$$

$$\bigcirc \ w(i+1) = w(i) + \eta(t-o)x(i)$$



Preostalo vrijeme 0:03:35

Pitanje 4

Nije još odgovoreno

Broj bodova od 1,00

P Označi pitanje

The factor γ in reinforcement learning serves for:



discounting future rewards

- controlling the learning rate
- forced exploration
- finding a maximum-value solution

Obriši moj odabir

Pitanje 5

Nije još odgovoreno

Broj bodova od 1,00

P Označi pitanje

Obriši moj oda

Preostalo vrijeme 0:03:51

Pitanje **7**

Nije još odgovoreno

Broj bodova od 1,00

P Označi pitanje

Let w_{ij} denote the weight between the output of neuron i and the input to neuron j in an artificial network. When backpropagating the error, the weight w_{ij} will get updated. What is this weight update proportional to?



the product between the output of neuron i and the error of neuron j

- \bigcirc the product between the error of neuron i and the error of neuron j
- \bigcirc the sum of the errors of neurons i and j
- On the weighted sum of the output of neuron j and the error of neuron i

Nije još odgovoreno

Broj bodova od 1,00

Označi pitanje

Two chromosomes have been selected for crossover: K1=001100 and K2=010100.
Assume there is no mutation. Crossover point is after the first third (from the left). What is the result of crossover?



000100

- 010100
- 001100
- 010101

Nije još odgovoreno

Broj bodova od 1,00

P Označi pitanje

We use the genetic algorithm to minimize f(x). Which of the following we can use as the fitness function?

$$\bigcirc 1 + f(x)$$

$$\bigcirc$$
 1 + $f(x)$
 \bigcirc $f(x)/2$
 \bigcirc 1 - $f(x)$
 \bigcirc 2 $f(x)$

$$\bigcirc$$
 2 $f(x)$

Nije još odgovoreno

Broj bodova od 1,00

Označi pitanje

The factor γ in reinforcement learning serves for:

- discounting future rewards
- controlling the learning rate
- forced exploration
- finding a maximum-value solution

Nije još odgovoreno

Broj bodova od 1,00

P Označi pitanje

Two chromosomes have been selected for crossover: K1=001100 and K2=010100.

Assume there is no mutation. Crossover point is after the first third (from the left). What is the result of crossover?



001100

- 010100
- 000100
- 010101