Can a complex movement program be inherited?	Can a complex movement program be inherited?
Only for primates	
O No	
Only for humans	
O Yes, in general	
O Tes, in general	
Question 2 1 pts	
Which one is the third industrial revolution?	Which one is the third industrial revolution?
Production using computers and internet	
Production using deep learning	
Production using artificial intelligence	
Production using conveyor belt	
//canvas.elte.hu/courses/11425/quizzes/25940/take	
Question 3 1 pts	What is false belief?
What is "false belief"?	
if arguments to explain a phenomenon are false	
if the belief about the "other mind" is false	
if our observations are thought to be known by the partner	
if the belief is not supported by facts	
Question 4 1 pts	Shallow multilayer feedforward networks
Shallow multilayer feedforward networks	
o can not approximate concave sets	
○ can not approximate non-convex sets	
are linear function approximators	
are universal approximators	
- Question o	
In the case of Hebbian learning the source of learning is "THIS IS YOUR ANSWER".	In the case of Hebbian learning the source of learning is
the activity value of the output of the neuron	Input and output of the weight multiplied
O the activity value of the input to the neuron	manaphoa
o input and output of the weight multiplied	
o input and output of the neuron multiplied	

	The size of the representation of a sparse autoencoder "THIS IS YOUR ANSWER" as/than the dimension of the input.  output  the same smaller smaller larger smaller larger	The size of the representation of a sparse auto encoder larger
,	Question 8 1 pts	What does the complexity of an optimization task depend on?
	What does the complexity of an optimization task depend on?  O the number of dependent variables of the task	the synthesis of energy systems is a complex optimization task depending on multiple time series
_	○ the wall-clock time to solve	
L	the number of independent variables of the task the number of available processors	
arrv	as <b>erre.nu</b> /courses/ 11423/quizzes/23340/take	lecture 3 - 10th slide
		lecture 3 - 10th shae
	What is the curse of dimensionality?	What is the curse of dimenstionality?
	the dimension of the search space decreases with the number of variables	
	o search space increases exponentially with the number of dimensions	
	the larger the dimension of the problem, the larger the number of dependent variables	
	$\bigcirc$ in a bounded world, the volume of a sphere of radius 1 increases with the number of dimensions	
)	Question 10 1 pts	What is missing from typical Doop Naturalis
	What is missing from typical Deep Networks that could promote explainability?	What is missing from typical Deep Networks that could promote explainability?  Answer: <b>Recognition by</b>
	o synchronous operation	components.
	recognition by components	
	○ holistic recognition	
	○ few layer recognition	
,		

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What does the Chinese Room example state?  Lookup tables can make sense of the representation Feedforward processing can make sense of the representation The homunculus can not make sense of the representation Feedforward processing can not make sense of the representation		What does the Chinese Room example state? (this picture has the wrong answer) Correct answer: Feedforward processing can not make sense of the representation
Question 12  What is the Markov assumption?	1 pts	What is the Markov assumption?
<ul> <li>The transition-probability matrix depends on state-action-state triplets</li> <li>The strategy is a probability distribution on the state-action space</li> <li>Past actions need to be included into the strategy</li> <li>The past does not influence the current optimal decision</li> </ul>		
Complexity classes are "THIS IS YOUR ANSWER"  o easy to solve, hard to solve, easy to prove, hard to prove hard to prove, easy to prove hard to verify, easy to verify hard to solve, easy to solve, hard to verify, easy to verify		https://duongquangduc.wordpress.com/2017/0 2/13/complexity-classes/  Complexity classes are
Question 14  Which feature can corrupt the Markov property?  the strategy is a function of state and action an action depends on the past an action depends on the state a state depends on the past	1 pts	Which feature can corrupt the Markov property?  A state depends on the past

	In the Necker cube illusion "THIS IS YOUR ANSWER"	In the Necker cube illusion
	one can not switch the illusions, but can stop one interpretation	
	one can switch the illusions, and can stop one interpretation	
	one can not switch the illusions, and can not stop one interpretation	"we cant control which one we see, and cant
	one can switch the illusions, but can not stop one interpretation	save one of the interpretation, cant stop
		changing either."
>	Question 16	pt
	How do you train a deep network for superresolution?	How do you train a deep network for superresolution?
	Input downscaled image, output blurred image	
	Input downscaled image, output real image	Super-resolution is the process of recovering
	Input real image, output downscaled image	a high-resolution (HR) image from a low- resolution (LR) image. Super-resolution
	Input upsampled image, output downsampled image	models are trained with LR images as input
	110 (1) Action (action (1) Action	and HR images as target.
	How can you improve the Markov property?	how can you improve the Markov property?  Answer: by including the past into decision
	by learning the transition-probability matrix	making.
	<ul> <li>by the optimization of the decisions</li> </ul>	
	by including the past into decision making	
	○ by learning the reward function	
>	Question 18	ts What is crowdsourcing?
	What is crowdsourcing?	
	o many tasks are solved simultaneously in one optimization	
	o many tasks are solved sequentially (after each other) in several optimizations	
	a company gives the task to another that gives to another and so on, forming a chain	
	o many people work for a common goal, often innovation, problem solving, or efficiency	
	Question 17 pe	
		A <u>dualist</u> might argue that the homunculus
		inside the brain is an immaterial one
What is the dualist resolution of the homunculus fallacy?		What is the shootist association of the
	The homunculus estimates the output	What is the dualist resolution of the homunculus fallacy?
Γ	The homunculus is immaterial	
L	Outputs are the results of feedforward processing	
	Measurement theory of quantum physics resolves the fallacy	
	- The state of the	

Wh	nat is the explanation of the Necker cube illusion?
0	there are delays in action processing
0	there are delays in sensory processing
0	there are delays in sensory and in action processing
0	only one interpretation is available for consciousness at a time

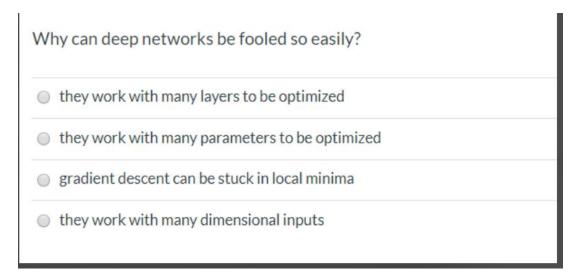
What is the explanation of the Necker cube illusion?

Answer: There are delays in sensory and in action processing

	hat is the 'reward' in Reinforcement Learning (Goal-Oriented System)?
0	a nonnegative real vector
0	a real number
0	a nonnegative real number
	a real vector

What is the reward in Reinforcement learning?

Answer: a real number



Why can deep networks be fooled so easily?

Answer: They work with many dimensional inputs

Wł	nat can be the reason for the imitation of facial expression in neonates?
0	It generates association between sensory and emotional signals
0	It helps to understand the mood of the others
0	It helps others to understand the mood
0	It helps to show facial expressions

What can be the reason for the imitation of facial expression in neonates?

Answer: It generates association between sensory and emotional signals.

There are more than one component types. One of them is Lego-like: you can put the components together and take them apart. Another is modifiable. The representation of space and the related metric belong to "THIS IS YOUR ANSWER"
both
oneither of them (a third one)
the modifiable components
<ul> <li>Lego-like components</li> </ul>

There are more than one component types. One of them is Lego like:

## Answer:both

A Deep Neural Network is a differentiable function of "THIS IS YOUR ANSWER".

Group of answer choices

two variables (parameter, input)

three variables (hyper-parameter, parameter, input)

a single variable (input)

four variables (meta-parameter, hyper-parameter, parameter, input)

General Intelligence is the capability to "THIS IS YOUR ANSWER"

Group of answer choices

maximize reward

solve arbitrary new problems

approximate a function

solve a fixed set of problems

General Intelligence is the capability to:

Answer: solve arbitrary new problems

What is ConceptNet?

Group of answer choices

set of answers for the question "what is it used for?"

collection of concepts

collection of captions of images

collection of relations between words

What is ConceptNet:

Answer: Collection of relations between words

Which of the following is NOT part of a Reinforcement Learning (Goal-Oriented System) setting?

Group of answer choices

environment

strategy

target variable

model

Which of the following is NOT part of a Reinforcement learning(Goal-Oriented System) setting? Answer: Model

A Deep Neural Network is a differentiable function of **two variables(parameter,input).** 

What can be the reason for the imitation of tongue protrusion? It should be an answer related to breastfeeding.

What is the relation between a fully convolutional network (i.e., there are no dense layers) and the weight values of the templates?

Weight values of the templates correspond to some of the weights of the CNN.

Can a complex movement program be inherited? **Yes, in general.** 

Which one is the third industrial revolution? **Production using computers and Internet.** 

Paper Folding

Fold a paper of 0.1 mm thickness 50 times. How thick will that be?

Much Larger. (Other possible answers were: 100m, Earth-Moon distance, 100km)

Communication:

What is the learning task that is worth to communicate/talk about? Hard to learn and easy to verify

Neural Response:

What can be the reason for the similar neural responses when the motion is executed by the self or by others?

It reinforces the making sense process: the muscle related neurons 'confirm' that they could execute the same action

Tongue Protrusion:

What can be the reason for tongue protrusion?

It is part if the general imitation system

Homunculus Fallacy:

What is the autoencoder-based resolution of the homunculus fallacy?

The representation makes sense of the input by reconstructing it.

What is the starting point of the homunculus fallacy?

Somebody should make sense of the representation.