



DL Lecture Quiz 10 (2021)

1 play · 40 players

 A private kahoot

Questions (7)

1 - Quiz

NAS differs from HPO in that ...

30 sec



NAS also optimizes architectural hyperparameters



NAS can be solved using gradient descent (e.g., DARTS)



NAS only optimizes architectural hyperparameters



HPO is a simpler variant of NAS



2 - Quiz

In the evaluation pictured below, which of the following architectures is/are Pareto Optimal?

60 sec



ResNet-50



Inception-v4



VGG-19



AlexNet



3 - Quiz

Which of the following is historically the first NAS approach?

20 sec



Neuroevolution



Reinforcement Learning



Bayesian Optimization



Differentiable Architecture Search



4 - Quiz

Which of these performs best at Black Box NAS currently?

20 sec



Reinforcement Learning



Bayesian Optimization



Evolutionary Algorithms



Random Search



5 - Quiz

In the Regularized Evolution approach [Real et al, 2019],

30 sec



Architectures are evolved



Model weights are learned using gradient descent



Architectures are learned using gradient decent



Model weights are evolved



6 - Quiz

Which of the following are true for general exact network morphisms?

30 sec



Leave output of network unchanged



Always increase network capacity



Always decrease network capacity



Always improve performance



7 - Quiz

Which of the following is a failure-mode/issue of DARTS (relative to Black Box NAS methods)?

20 sec



High memory requirements



High sensitivity to its hyper-parameters



High compute time requirements



High complexity of the learned architectures

