Source:

#ref #ret

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1 | Weight Agnostic Neural Networks

Or WANNN, for short.

Note's on this article

Animals can perform tasks when they are born without prior experience to the world. If the brain is pre-wired, then learning new from experience would cause a loss of the old skill. What gives?

WANNs can perform tasks regardless of the weights in its connections.

1.1 | NEAT

NeuroEvolution of Augmented Topologies

Genetic algorithm in which mutations done by changing the **structure** of the network.

1.2 | Back to WANN

Can generalize the network to work with a range of weight values?

Instead of changing connection weights, they

- add connections,
- add weight,
- change activation functions.

  Networks in which the structure enables the task to be completed, not the weights, can be developed.

Shows example of cart balancing itself, works with many different weight values.