Source:			
#ref #ret			

1 | Weight Agnostic Neural Networks

Or WANNN, for short.

Note's on this article, and also 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 by operating off of a pre-made structure.

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.

1.3 | **So?**

WANNs make models more interpretable, as their solutions or logic is encoded directly into their structure.

More general, and deals better with varying inputs.

Also allows us to encode 'intellegence' from the creation of of the network

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