

【Research Review】 Mastering the game of Go with deep neural networks and tree search(AlphaGo)

[Paper link](#)

A brief summary of the paper's goals or techniques introduced.

Goal summary

Goal in this paper is to master Go with artificial intelligence.

techniques introduced summary

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For that purpose, this paper proposes two deep neural networks.(value networks/policy network)

These networks are trained by a novel combination of supervised learning from human expert games, and reinforcement learning from games of self-play.

And introduced combines Monte Carlo simulation with value and policy networks.

A brief summary of the paper's results.

Using this search algorithm, our program AlphaGo achieved a 99.8% winning rate against other Go programs, and defeated the human European Go champion by 5 games to 0. This is the first time that a computer program has defeated a human professional player in the full-sized game of Go, a feat previously thought to be at least a decade away.