

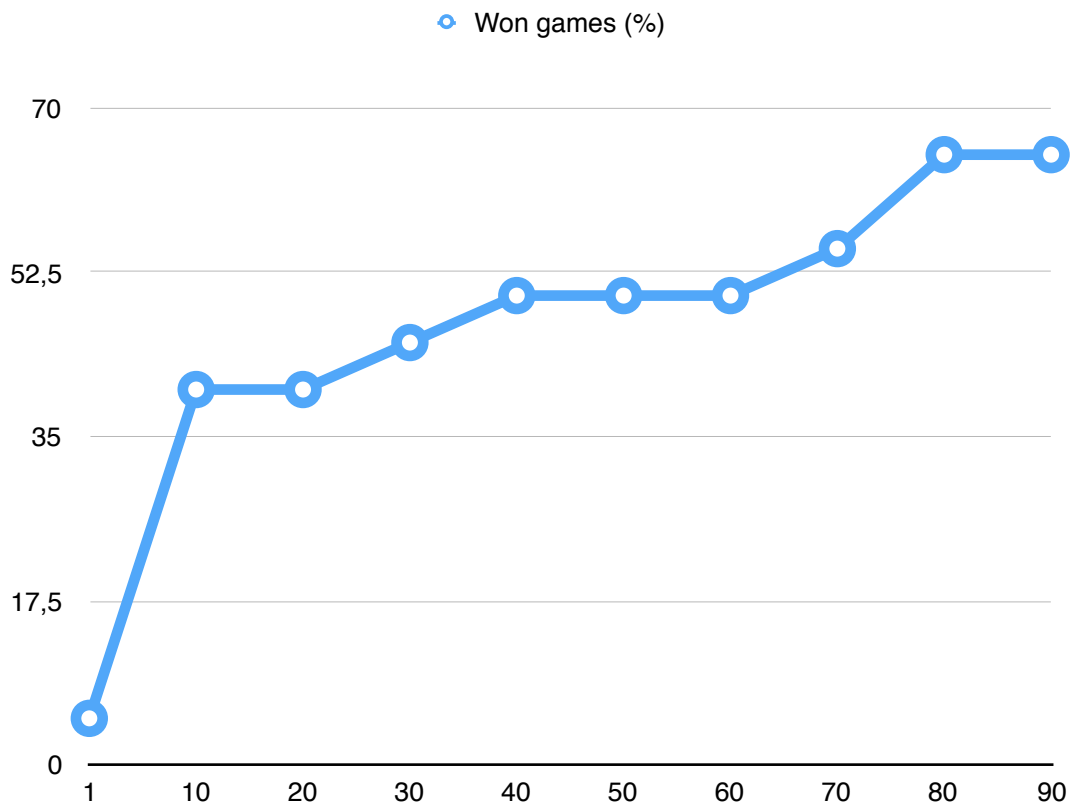
Building an Adversarial Game Playing Agent

Project Report

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Option 3 - Advanced Technique: Monte Carlo Tree Search (fair matches)

Performance baseline: Number of iterations



Comparison baseline search algorithm: Alpha beta search with iterative deepening

The alpha beta search algorithm, no matter how deep the iterations, show fairly poor results compared to the Monte Carlo Tree Search algorithm.

Explanation:

The Monte Carlo tree search focuses on the most interesting branches, so it grows asymmetrically as it concentrates on the most promising subtrees, which gives it a great advantage over methods with high branching factors.