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Genetic Algorithm

The simple genetic algorithm is modeled by Nix and Vose as Markov Chain, where the states of Markov chain represent the possible solutions (or population). Their approach depends on (fixed-length binary string representation, one-point crossover, proportional selection). They study the limiting behavior of genetic algorithm as the population size goes to infinity, whereas David considers the asymptotic of steady state as Mutation rate Decrease. But what about if there is no mutation and what is the time of convergence for no-mutation genetic algorithm?