

The 8-Queen Puzzle Problem

Use the Genetic Algorithm to solve this problem.

Problem statement:

8 queens is a classic computer science problem. To find possible arrangements of 8 queens on a standard 8 x 8 chessboard such that no queens ever end up in an attacking configuration. Now, if one knows the basics of chess, one can say that a queen can travel either horizontally, vertically, or diagonally. Hence, for 2 or more queens to be in an attacking state, they have to lie either horizontally or vertically or diagonally in-line with the other queen.

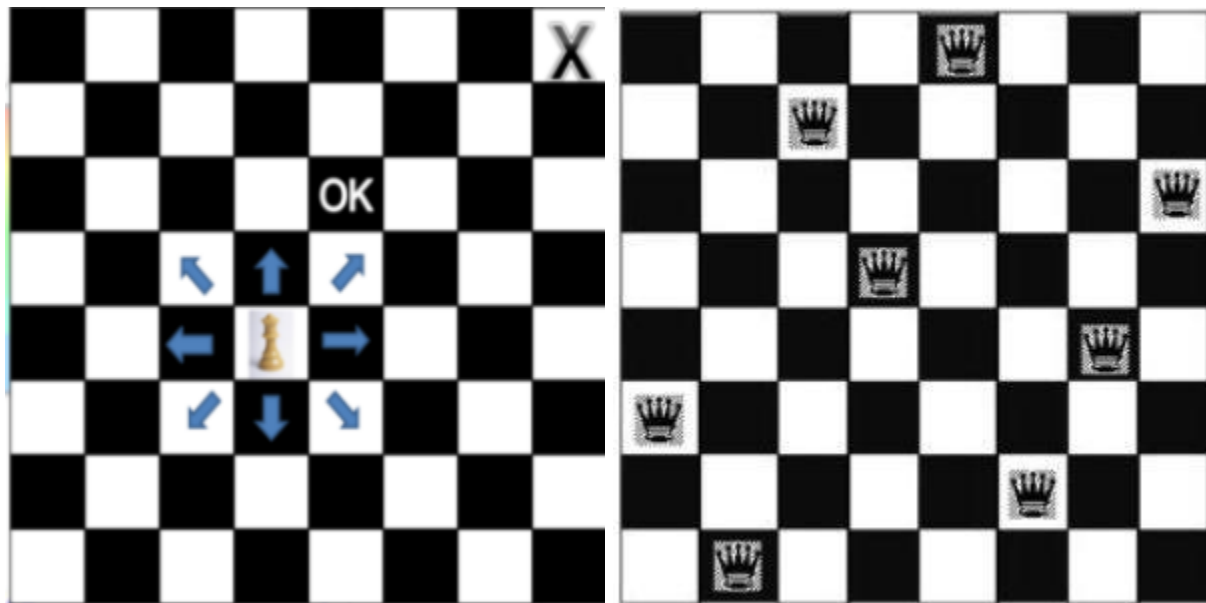


Figure (Left picture describes Queen configuration while the right is the desired position for 8 queens).