Abstract

This paper, explains a solution to find the 92 solution of n-Queen problem based on GA (Genetic Algorithm). The n-Queen problem becomes a widespread platform for AI researchers to implement their intelligence algorithms and try them. The Genetic algorithm used to solve the problem and each chromosome is a solution for the problem and depends on the steps of the GA. The 92 solutions, all possible solutions for the 8 Queen problem are founded. The representation of each chromosome has been by using one dimension array with size equal 8 containing only the queens which represent a single solution and the empty location are aborted to reduce the searching time.

References


Božiković, Marko, G. "paralleling genetic algorithm", Faculty of Electrical Engineering and Computing, Zagreb, 22. 05. 2006.


Kelly D. Crawford, "Solving n Queen problem using genetic algorithms", Tulsa University.

Eric Cantú-Paz, "A summary of research on parallel genetic algorithms", Computer Science Department and The Illinois Genetic Algorithms (IlliGAL), University of Illinois at Urbana-Champaign, cantupaz@uiuc.edu

Eric Cantú-Paz, "A survey of parallel genetic algorithms, Computer Science Department and The Illinois Genetic Algorithms Laboratory", University of Illinois at Urbana-Champaign, cantupaz@illigal.ge.uiuc.edu.

Index Terms

Computer Science  Algorithms

Keywords

N-Queen Problem  8-Queen Problem  Heuristic Techniques  Genetic Algorithm  Swarm Intelligence (SI).