GENETIC ALGORITHM AND APPLICATION TO SOLVING THE TSP PROBLEM

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Abstract: In the field of computer science, finding optimal solutions to problems is a topic of great interest to computer scientists. The main goal of solution search algorithms is to find the most optimal solution to a problem in the shortest possible time. Algorithms such as uninformed search, brute-force search (searching on lists, trees, or graphs) use the simplest and most intuitive methods, or informed search algorithms that use heuristics to apply knowledge about the structure of the search space to reduce the time required for searching. These are widely used but only effective for small search spaces and are inefficient when searching in large spaces.

Keywords: GENETIC ALGORITHM, APPLICATION TO SOLVING THE TSP PROBLEM, TSP

References

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