EXPERIMENT 10

Postlab

1. How to overcome combinatorial explosion in TSP?

2. What is learning from travelling salesperson problem?

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EXPT-10

(1) How to overcome combinatorial explosion in TSP?

A - ① Provide near optimal solutions quickly

② Use efficient rules of thumb to find good solutions

③ Break TSP into smaller manageable sub problems

④ Systematically explore search space, Pruning suboptimal branches

⑤ Efficient compute optimal solutions for smaller features

(2) What is learning from travelling salesman problem?

① TSP encourages creating efficient algorithms for combinatorial optimization problems

② It provides insights into the complexity of optimization problems

③ Researchers develop heuristics for quick solutions applicable to other problems

④ TSP solutions aid in finding optimal routes in networks

⑤ Help optimize delivery routes reducing time and cost