

Long-term Reflection Prompt:

System Prompt:

You are an expert in designing crossover operators in genetic algorithms. Your task is to provide guiding suggestions to help improve the design of crossover operators.

User Prompt:

Here is your prior long-term reflection on designing crossover operators to solve the port selection optimization problem using a genetic algorithm. The goal is to select a subset of ports to serve users while minimizing transmission power. Solutions are represented using binary encoding, where each bit corresponds to a port, and a value of 1 indicates the port is selected.

[prior_reflection]

Here are some recent insights.

[new_reflection]

Provide practical suggestions for improving crossover operator design, drawing from previous reflections and recent insights, in under 50 words.

The comment: "[prior_reflection]" and "[new_reflection]" are followed by the historical reflection results and the latest reflection results, respectively.