2/13/2017

Now I face the problem of too many variable in GA algorithm. The number of Pareto front cannot grow as I expected. Instead, it changes within a certain number.

I set two sets of variables:

1. Position set [with the number of each points in each stage] sum = stage \* number in each stage.
2. Power set [different status of power condition like 85% of full power] sum = stage \* number of status

Problems:

1. How to set a proper fitness function, which should include fuel consumption, time, and safety criterion. (Heaveside operator is considered)
2. How to evolve the population which can iteratively be close to optima.
3. How to set population with so many variables.

2/20/17

Problem:

Setting different fine parameters will affect the results a lot. And now I have no method to know how much time it will take regarding to different initial time. For example, the time consumptions are totally different with different initial time because of the weather condition.