

a mathematical formulation and algorithm formulation. It is just writing it on microsoft word (math editor).

And please writing the formulation of the algorithm that I should do with the underlying mathematics using Ant Colony Optimization.

The problem:

There are 200 hundreds data of things, each of them has three variables (A, B, C).

N= 200

Variables= A, B, and C

I want to classify them to three classes with ACO heuristic classification.

The objective function is searching the 200 data

Where the goal function of A, $f(A) \leq 5000$

B, $f(B) \geq 4$

C, $f(C) \geq 9000$

After searching I classify them to the three importance level (using fuzzification) of the things, the lowest, moderate and highest importance. fuzzy sets B, CHello, can you provide me a mathematical formulation. It is just writing it on microsoft word (math editor).

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Example of data.

No. name of things variable A variable B variable C

1. thing1 6000 5 10000

2. thing2 4000 4 8000

3. thing3 5000 3 9000.

The output is three classes, that accepting the goal function and classify them using triangular fuzzification.

I only need the representation of the problems and solution to the solution with mathematical formulation.

Complete mathematical formulation is important to give understanding the exact problem and how to solve it