Comments for axioms-2640387

# Reviewer 2

## 1. Comment

I find the response satisfactory and recommend the manuscript for publication.

## Response

Thank you for your comments and your effort reviewing this manuscript.

# Reviewer 3

## 1. Comment

The algorithms presented in the article are described in such a way that they cannot be implemented due to errors in their description. For example, (1 - p\_s) N\_c is a non-integer in the general case, but the authors treat it as an integer (lines 119, 129).

## Response

We have denoted as N\_b the integer part of the value (1 - p\_s) N\_c in order to be more precise.

## 2. Comment

N\_c should be instead of N\_C (lines 108, 134).

## Response

Corrected.

## 3. Comment

The notation g\_ij (line 135) is not described or there is a typo.

## Response

The second index has been removed.

## 4. Comment

Another remark from the previous review: “Genetic Algorithm does not indicate the distribution law for random variables a\_i and r.” The distribution law has not yet been specified. Apparently it should be uniform.

## Response

Yes you are corrected. We have clarify it in the revised manuscript.

## 5. Comment

Algorithm 1 uses x\_i and N\_m (Section 2.1), but they are described only in Section 2.3. In this algorithm, the centers at the first iteration are completely incomprehensible. Definition of initial centers is missing.

## Response

We have added the following phrase in Algorithm 1:

*“**The input of the algorithm is the N\_m initial points x\_i ,i=1, … , N\_m . For the current algorithm x i are randomly selected samples in S . ”*

## 6. Comment

Step 2.(b).i must use argmin instead of min, otherwise this step is meaningless.

## Response

Corrected.