

The Response to **the** reviewer's comments

Describe how you respond the reviewer's comments, here...

1. The 1st comment:

The contribution is not clearly stated. It is not clear why TA is better than the others. Detailed comparison must be made.

Response:

On this paper, the research is concerned in the application of a new algorithm on the power system, it is not focused on the comparison to other methods, but this theme is being working for evaluating performances and the superior of Thunderstorm Algorithm. So on this paper, the comparison is not discussed yet.

2. The 2nd comment:

1. Acronyms and abbreviations should be given in the beginning of the paper for better understanding to reader.

Response: Acronyms or abbreviations have been moved on the first position explanation.

Modification:

On Abstract:

Thunderstorm Algorithm (TA), for searching the optimal solution of the integrated economic and emission dispatch (IEED) problem as the

On main:

- an economic load dispatch (ELD), on page 3
 - an emission dispatch (ED), on page 3
 - such as genetic algorithm (GA) and harvest season artificial bee colony (HSABC), on page 4
 - entitled Thunderstorm Algorithm (TA), which is applied to carry out the optimal solution of the integrated economic and emission dispatch (IEED), on page 4
2. Proper explanation is needed i.e. implementation of proposed approach (TA) for the problem is need to be describing in more detail.
Response: This aspect is detailed in the method section.
Modification:
On method:
In detail, the cloud phase covers create the clouds; evaluate the clouds; and define the pilot leader. One other, the streamer phase is started by a prior streamer selection followed by productions of striking directions. After that, it is continued to evaluate the path and define the streaming track. The final step is the avalanche phase prepared for the channel evaluation and streaming track replacement.
 3. To test the effectiveness of proposed approach comparison with other technique is required.
Response:
On this paper, the research is concerned in the application of a new algorithm on the power system, it is not focused on the comparison to other methods, but this theme is being working for evaluating performances and the superior of Thunderstorm Algorithm. So on this paper, the comparison is not discussed yet.
 4. In the introduction, you need to connect the state of the art to your paper goals.

Response:

The introduction is completed by additional sentences for integrating the state of the art for the paper.

Modification:

On introduction

Many previous studies have been developed in various aspects for increasing its performances associated with its applications to solve optimization problems in the ELD [2], [3], [6], [7]. Many evolutionary methods have been proposed as intelligent computations based on certain natural processes, such as genetic algorithm (GA) and harvest season artificial bee colony (HSABC). One of important points in evolutionary techniques is the inspiration, which is adopted from natural behaviors or phenomena for mimicking natural mechanisms, for examples, GA is associated with genetic mechanisms and HSABC is related to bees and flowers. Furthermore, this paper introduces a new intelligent computation entitled Thunderstorm Algorithm (TA), which is applied to carry out the optimal solution of the integrated economic and emission dispatch (IEED) based on ELD and ED problems using a standard model of the IEEE-62 bus system with various constraints.

Note:

I have added the 2nd author.

Batu, Oct 5th 2016

Assc. Prof. A.N. Afandi