

Title of the paper

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Dear Editors,

We express our gratitude for the time and effort dedicated to the reviewing of our submitted manuscript. We worked diligently to address all the concerns raised by the referees. Below we provide our detailed response to their comments. We hope that the applied revisions are to the satisfaction of the editors.

Kind regards,

Name 1, Name 2

Manuscript information

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Associate Editor

Comments to the Authors:

Hope the reviewers' comments would be useful for your research.

Response

Thank you very much. We have revised the manuscript by taking reviewers' comments and suggestions into consideration to enhance the paper quality. The revisions are marked in blue color in the revised manuscript.

Review 1

Comments to the Authors:

The paper puts forward a new methodology for XXX. The concepts are clearly described and the algorithmic flows are presented carefully. Experiments are carried out in comparison to state-of-the-art methods on a set of benchmark functions.

Response

Thank you very much for your valuable comments on our paper and work. We have revised the manuscript by taking your following comments and suggestions into consideration to enhance the paper quality. The revisions are marked in **blue** color in the revised manuscript.

Comment I

The writing is generally good but could be further improved.

Response

Thank you for your valuable comment. We have further polished up the language presentations. We hope the revised paper will be more clear and accurate on expressions.

Comment II

The process of XXX is not clear.

Response

Thank you for your valuable comment. In the revised paper, we have added some XXX. The revised description are shown in the Section XXX-X.

Comment III

There are some typos and informal notations, e.g., the decision vector is a vector and thus it should be given as \mathbf{x} .

Response

Thank you very much for pointing out this issue. We have changed the notations according to your suggestion and double-checked the manuscript to avoid similar problems.

Comment IV

The format of the references should be unified, e.g., [8] and [38].

Response

Thank you very much for pointing out this issue. We have carefully formatted all the references in the revised manuscript. The above three reference formats are presented as follows:

- 8 A. B. Kahn, “Topological sorting of large networks,” *Communications of the ACM*, vol. 5, no. 11, pp. 558–562, 1962
- 38 K. He, X. Zhang, S. Ren, *et al.*, “Deep residual learning for image recognition,” in *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition*, 2016, pp. 770–778

How to use

Basic usage

In general, this template provides several environment to identify different reviewers and editors. A simple example is as follows.

```
\begin{Editor}[Associate Editor]
  \begin{CommentSummary}
    A summary/general comment of associate editor.
  \end{CommentSummary}
  \begin{Response}
    Your response.
  \end{Response}
\end{Editor}
\begin{Reviewer}
  \begin{CommentSummary}
    A summary/general comment of reviewer.
  \end{CommentSummary}
  \begin{Response}
    Your response.
  \end{Response}
  \begin{ReviewerComment}
    A comment of the reviewer.
  \end{ReviewerComment}
  \begin{Response}
    Your response.
  \end{Response}
\end{Reviewer}
```

Reviewers are automatically numbered using Arabic numerals. Reviewer responses are numbered using Roman numerals automatically. More details, please see the .tex file.

Display of content

An introduction to topological sorting will be used to introduce the arrangement of content, such as figures, algorithms and reference.

Topological sort is an algorithm for sorting a directed acyclic graph (DAG). It arranges all the vertices v in the graph G into a linear sequence L , making the starting vertex of any edge in G is arranged before its ending vertex in L . From the perspective of discrete mathematics, the vertices of an edge can be regarded as a partial order, and then topological sorting can be defined as obtaining a total order of the set from the set of partial orders. The most typical implementation of topological sorting is the Kahn algorithm [1], which continuously removes the vertex with zero indegree in the graph G and append the vertex into the end of the current sequence L . Its pseudo code is shown in Algorithm 1, and Figure 1 is an example of this pseudo code.

Algorithm 1 KahnAlgorithm

Input: Graph $G(\mathbb{V}, \mathbb{E})$

Output: Sequence L

```
1:  $L \leftarrow$  an empty sequence
2:  $Q \leftarrow$  the vertices whose indegree is zero
3: while  $Q$  is not empty do
4:    $u \leftarrow$  remove the top node of  $Q$ 
5:   add  $u$  to  $L$ 
6:   for each node  $v$  with an edge  $e$  from  $u$  to  $v$  do
7:     remove edge  $e$  from graph  $G$ 
8:     if indegree of  $v$  is 0 then
9:       push  $v$  to  $Q$ 
10:    end if
11:  end for
12: end while
13: return  $L$ 
```

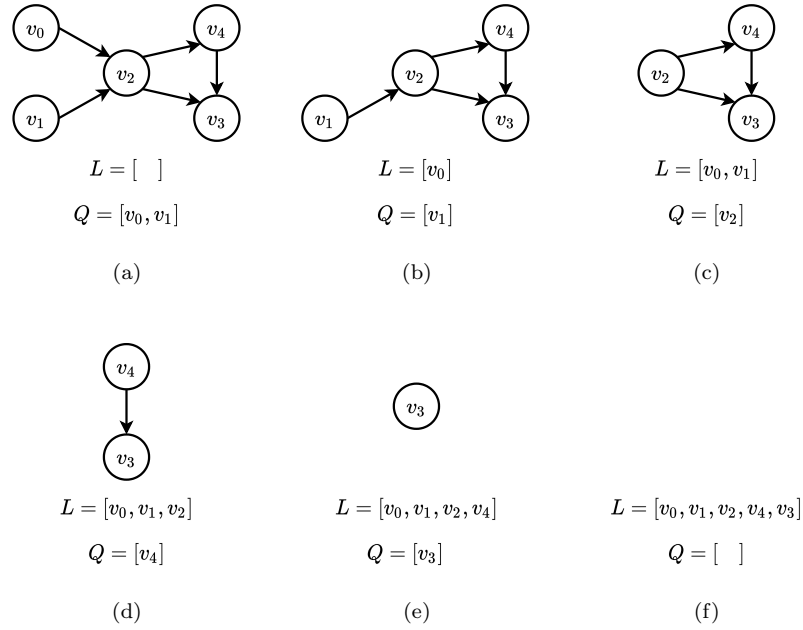


Figure 1: A example of Kaha algorithm. In **Figure 1a**, indegree of v_0 and v_1 is zero, thus, they are pushed into the Q . In **Figure 1b**, v_0 is popped out, the edge starting from it is removed, and then put v_0 into L . In **Figure 1c**, v_1 is popped out and put into L , the edge e_{12} is removed, v_2 is pushed into Q . In **Figure 1d**, v_2 is popped out and put into L , edges e_{23} and e_{24} are removed, v_4 is pushed into Q . In **Figure 1e**, v_4 is popped out and pushed into L , edge e_{43} is removed, v_3 is pushed into Q . In **Figure 1f**, v_3 is popped out and push into L .

- [1] A. B. Kahn, "Topological sorting of large networks," *Communications of the ACM*, vol. 5, no. 11, pp. 558–562, 1962.

Draft Mode

There is a draft mode in this template. The content in environment 'Draft' will only be displayed when the draft mode is turned on.

```
\begin{Draft}
  This section will only be displayed if you set `IfDraft` to `True` in the `letter.tex`.
  You can set `IfDraft` to `False` after finishing the letter.
\end{Draft}
```

Label

The Label command can be used to display the label. It can be used with draft mode like follow.

```
\begin{Response}
  Your response here.
  \begin{Draft}
    \begin{flushright}
      \textbf{Assignment:} Someone who needs to reply to it\\
      \Hard \\
    \end{flushright}
  \end{Draft}
\end{Response}
```

The effect is as follows.

Response

Your response here.

Assignment: Someone who needs to reply to it
Hard

The built-in labels are list as follows.

- **Hard**
- **Medium**
- **Easy**
- **Done**

You can customize your labels by

```
\Label{color}{text}
```