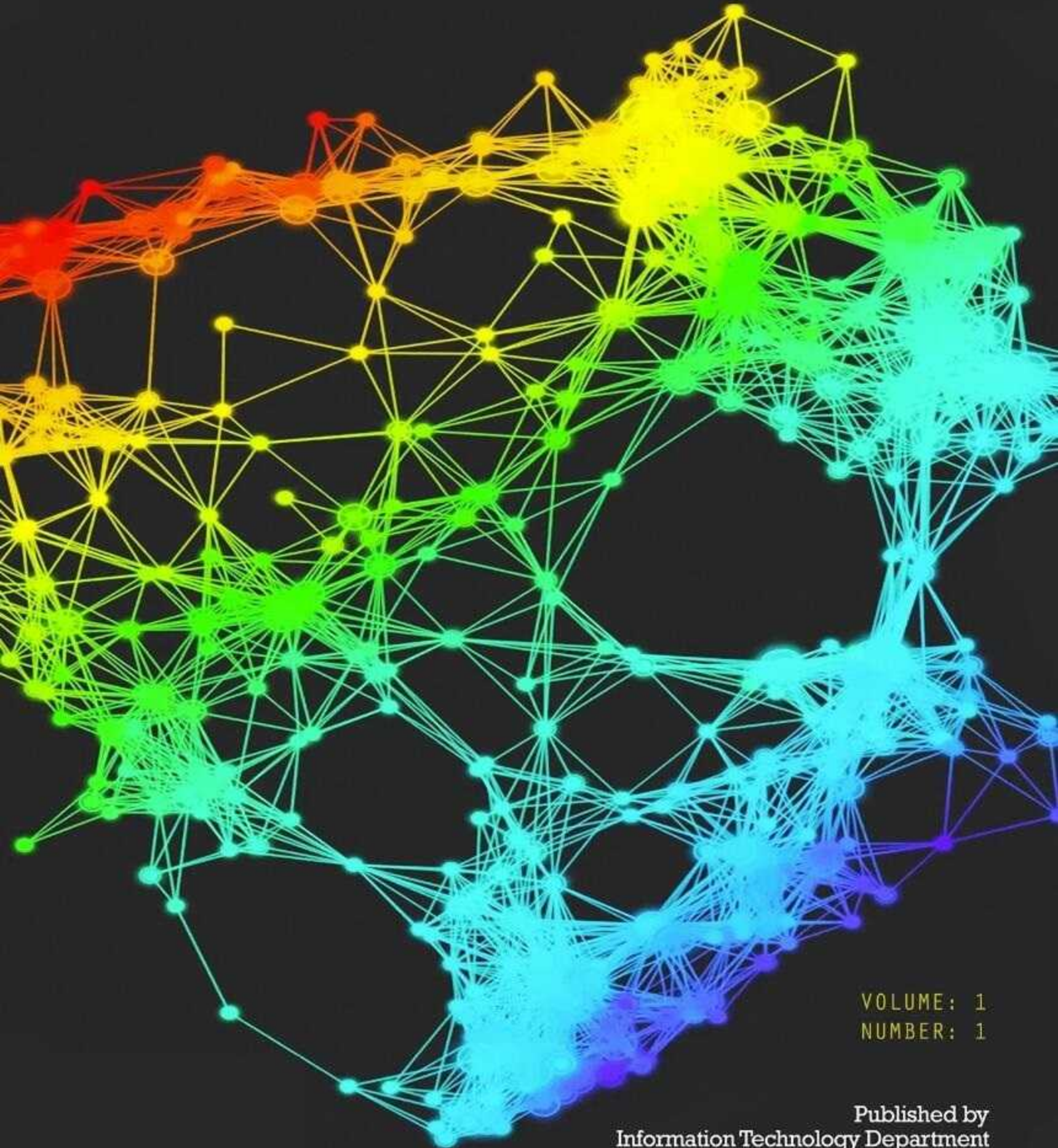


Korespondensi Publikasi

Judul	Image Prediction of Exact Science and Social Science Learning Content with Convolutional Neural Network
URI Jurnal	https://joiv.org/index.php/joiv/index
Authors	Mambang, Finki Dona Marleny

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INTERNATIONAL JOURNAL ON INFORMATICS VISUALIZATION



VOLUME: 1
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#923 Summary

[SUMMARY](#) [REVIEW](#) [EDITING](#)

Submission

Authors	- Mambang, Finki Dona Marleny
Title	Image Prediction of Exact Science and Social Science Learning Content with Convolutional Neural Network
Original file	923-1937-1-SM.DOC 2022-05-28
Supp. files	None
Submitter	Mambang Mambang 
Date submitted	May 28, 2022 - 05:04 PM
Section	Articles
Editor	Alde Alanda 
Abstract Views	0

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Status

Status	Published Vol 6, No 4 (2022)
Initiated	2023-01-03
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Submission Metadata

Authors

Name	- Mambang 
Affiliation	Sari Mulia University, Banjarmasin, Indonesia
Country	Indonesia
Bio Statement	—
Principal contact for editorial correspondence.	

Name	Finki Dona Marleny 
Affiliation	University of Muhammadiyah Banjarmasin, Indonesia
Country	Indonesia
Bio Statement	—

Title and Abstract

Title Image Prediction of Exact Science and Social Science Learning Content with Convolutional Neural Network

Abstract Learning content can be identified through text, images, and videos. This study aims to predict the learning content contained on YouTube. The images used are images contained in the learning content of the exact sciences, such as mathematics, and social science fields, such as culture. Prediction of images on learning content is done by creating a model on CNN. The collection of datasets carried out on learning content is found on YouTube. The first assessment was performed with an RMSProp optimizer with a learning rate of 0.001, which is used for all optimizers. Several other optimizers were used in this experiment, such as Adam, Nadam, SGD, Adamax, Adadelta, Adagrad, and Ftrl. The CNN model used in the dataset training process tested the image with multiple optimizers and obtained high accuracy results on RMSprop, Adam, and Adamax. There are still many shortcomings in the experiments we conducted in this study, such as not using the momentum component. The momentum component is carried out to improve the speed and quality of neural networks. We can develop a CNN model using the momentum component to obtain good training results and accuracy in later studies. All optimizers contained in Keras and TensorFlow can be used as a comparison. This study concluded that images of learning content on YouTube could be modeled and classified. Further research can add image variables and a momentum component in the testing of CNN models.

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- » **SCOPUS (ACCEPTED)**
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 - » Submission Accepted: **July 30, 2020**
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- » **WoS / Web of Science**
 - » Latest submission: September 16, 2018

Indexing

Keywords Image; exact and non-exact; learning content; CNN; deep learning.
Language en

Supporting Agencies

Agencies Information Technology Department at Sari Mulia University ; Informatics Department at the Muhammadiyah University of Banjarmasin

References

- References
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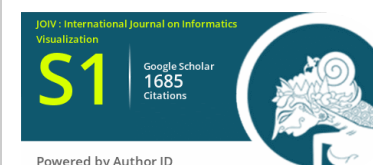
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M. P. Islam, K. Hatou, T. Aihara, S. Seno, S. Kirino, and S. Okamoto, "Performance prediction of tomato leaf disease by a series of parallel convolutional neural networks," *Smart Agric. Technol.*, vol. 2, no. March, p. 100054, 2022.

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#923 Review

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Submission

Authors	- Mambang, Finki Dona Marleny 
Title	Image Prediction of Exact Science and Social Science Learning Content with Convolutional Neural Network
Section	Articles
Editor	Alde Alanda 

Peer Review

Round 1

Review Version	923-1938-1-RV.DOC 2022-05-28
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Initiated	2022-06-26
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Editor Version	None
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» Latest submission:
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Decision Accept Submission 2022-07-16
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Editor Version None
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#923 Editing


[SUMMARY](#) [REVIEW](#) **EDITING**

Submission

Authors - Mambang, Finki Dona Marleny 

Title Image Prediction of Exact Science and Social Science Learning Content with Convolutional Neural Network

Section Articles

Editor Alde Alanda 

Copyediting

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File: None

2. Author Copyedit

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Proofreading

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Mambang Mambang:

We have reached a decision regarding your submission to JOIV : International Journal on Informatics Visualization, "Image Prediction of Exact and Non-Exact Learning Content with Convolutional Neural Network".

Our decision is: Revisions Required

initial review--

similarity score is high.. please revised your article with lower score

Alde Alanda
(Scopus ID: 57203718850); Politeknik Negeri Padang, Sumatera Barat
Phone 81267775707
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aldealanda@gmail.com

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Alde Alanda
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aldealanda@gmail.com

Alde Alanda

Reviewer A:

We have reached a decision regarding your submission to International Journal on Informatics Visualization. Our decision is: revision is required.

We recommend that you follow the JOIV template faithfully:

- As from template: Author name must be in 11 pt Regular font. Author affiliation must be in 10 pt Italic. Email address must be in 9 pt Courier Regular font. Check the pt size.
- The sentence in the abstract seems not correct: "Artificial intelligence in the learning environment allows users to accelerate adopting the latest technologies." Please, review the abstract some sentences are not completely clear.
- In the abstract and into the introduction could be explained better the scope of the work.
- There is a space at the end of page 2 that should be avoided.
- In the introduction there are many repetitions, i.e. check the period: "The Convolutional Neural Network used provides higher precision and shorter reconstruction times. Simone et al. [13] make predictions using Convolutional Neural Networks to predict pedestrian trajectories. The research they conducted aimed to predict the trajectory of pedestrians in crowds to autonomous drivers. The Convolutional Neural Network method was proposed for pedestrian trajectory prediction, introducing a new 2D convolution model."
- In material and methods explain better: "Images are stamped both on exact and non-exact learning content from these learning content."
- In material and methods typo error for the reference in the sentence: 'CNN is very effectively used in processing image datasets [18.]'
- Check the order and the reference: there is the [19] before [18]
- Check Fig. 3 the words in the picture could be not viewable in the paper format.
- Missing reference to pictures, should be inserted into the text.
- Explain better the sentences: 'The first input x is an argument, while the argument was the second is kernel or filter. Hyperparameters function in determining the output volume of each layer. Hyperparameters to make calculations of the number of activation neurons on the output we can show in the equation below:'
- Check the title "Proposed Model"
- Please explain better: "Furthermore, the initial image shape process consists of (545,1099,3) to see the image information"
- Fig. 4 could be too small on paper version.
- Should be specified how are divided training set and validation set.
- Check for RMPprop typo error.
- In conclusion review the sentence: 'The experiments we worked on in this study provide innovations in finding and finding learning content by making image predictions on the sampled learning content.'

The article is interesting, but some additional details could be helpful to understand the problem and the results obtained.

Please attach an additional file with the changes made to the paper, as well as the final version of the paper.

Thank you for your cooperation

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Author
2022-06-26 02:29 PM

Subject: Image Prediction of Exact and Non-Exact Learning Content with Convolutional Neural Network [DELETE](#)

Dear editors:

The following is a revision of the completed manuscript. The following is our response to the results from reviewers:

1.Reviewer Comments:

As from template: Author name must be in 11 pt Regular font. Author affiliation must be in 10 pt Italic. Email address must be in 9 pt Courier Regular font. Check the pt size.

Response:

The description on the template explains: Title must be Times New Roman at 18 points in size. Author name must be Times New Roman at 12 points in size. Author affiliation must be Times New Roman at 9 points in size and italic. Corresponding email address must be Times New Roman at 9 points in size. All title and author (s) affiliation must be in single-column format and must be centered.

2. Reviewer Comments:

The sentence in the abstract seems not correct: "Artificial intelligence in the learning environment allows users to accelerate adopting the latest technologies." Please, review the abstract some sentences are not completely clear.

Response:

The use of the latest technologies in many areas accelerates the adaptation of technology for users.

3. Reviewer Comments:

In the abstract and into the introduction could be explained better the scope of the work.

Response:

Learning content can be identified through text, images, and videos. This study aims to predict the learning content contained on YouTube. The images used are images contained in the learning content of the exact sciences such as mathematics and social science fields such as culture. Prediction of images on learning content is done by creating a model on CNN. The collection of datasets carried out on learning content is found in YouTube. The first assessment

was performed with an RMSProp optimizer with a learning rate of 0.001, which is used for all optimizers. Several other optimizers were used in this experiment, such as Adam, Nadam, SGD, Adamax, Adadelta, Adagrad, and Ftrl. The CNN model used in the dataset training process tested the image with multiple optimizers and obtained high accuracy results on RMSprop, Adam, and Adamax. There are still many shortcomings in the experiments we conducted in this study, such as not using the momentum component. The momentum component is carried out to improve the speed and quality of neural networks. We can develop a CNN model using the momentum component to obtain good training results and accuracy in later studies. All optimizers contained in Keras and TensorFlow can be used as a comparison. This study concluded that images on learning content on YouTube can be modeled and classified. For further research can add image variables and add a momentum component in the testing of cnn models.

4. Reviewer Comments:

There is a space at the end of page 2 that should be avoided.

Response:

The page with the space has been repaired

5. Reviewer Comments:

In the introduction there are many repetitions, i.e. check the period: "The Convolutional Neural Network used provides higher precision and shorter reconstruction times. Simone et al. [13] make predictions using Convolutional Neural Networks to predict pedestrian trajectories. The research they conducted aimed to predict the trajectory of pedestrians in crowds to autonomous drivers. The Convolutional Neural Network method was proposed for pedestrian trajectory prediction, introducing a new 2D convolution model."

Response:

Wei et al. [12] use Convolutional Neural Networks to reconstruct hyperspectral image tomography and the CNN used provides higher precision and shorter reconstruction times. Simone et al. [13] make predictions using CNN to predict the trajectory of pedestrians. The proposed CNN method introduces a new 2D convolution model.

6. Reviewer Comments:

In material and methods explain better: "Images are stamped both on exact and non-exact learning content from these learning content."

Response:

The learning content is then used in both exact sciences and social sciences learning content.

7. Reviewer Comments:

In material and methods typo error for the reference in the sentence: 'CNN is very effectively used in processing image datasets [18.]'

Response:

CNN is very effectively used in processing image datasets[18]

8. Reviewer Comments:

Check the order and the reference: there is the [19] before [18]

Response:

CNN is very effectively used in processing image datasets[18]. In Convolutional Neural Networks, there is a maximum mean that serves to reduce the features that are extracted [19].

9. Reviewer Comments:

Check Fig. 3 the words in the picture could be not viewable in the paper format.

Response:

The image has been replaced with a new image

10. Reviewer Comments:

Missing reference to pictures, should be inserted into the text.

Response:

References to images have been included in the text

11. Reviewer Comments:

Explain better the sentences: 'The first input x is an argument, while the argument was the second is kernel or filter. Hyperparameters function in determining the output volume of each layer. Hyperparameters to make calculations of the number of activation neurons on the output we can show in the equation below:'

Response:

The first input x is an argument while the argument w as the second is a kernel or filter. Hyperparameters function in determining the output volume of each layer. Hyperparameters to make calculations of the number of activation neurons on the output we can show in the equation below:

(w argument text is missing in previous text)

12. Reviewer Comments:

Check the title "Proposed Model"

Response:

CNN model used in research

13. Reviewer Comments:

Please explain better: "Furthermore, the initial image shape process consists of (545,1099,3) to see the image information"

Response:

Furthermore, to see the image information, the shape process is carried out using the cv2 library and the initial image information consists of (545,1099,3). 545 is the width value, 1099 is the height and 3 is the number of channels.

14. Reviewer Comments:

Fig. 4 could be too small on paper version.

Response:

Figure 4 has been repaired

15. Reviewer Comments:

Should be specified how are divided training set and validation set.

Response:

The dataset is divided into 80% for training, 20% for validation.

16. Reviewer Comments:

Check for RMPprop typo error.

Response:

used in the RMSprop optimizer (RMPprop typo has all been fixed to RMSprop)

17. Reviewer Comments:

In conclusion review the sentence: 'The experiments we worked on in this study provide innovations in finding and finding learning content by making image predictions on the sampled learning content.'

Response:

The experiments we worked on in this study showed that images of learning content contained on YouTube can be predicted using the CNN model.

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Mambang Mambang:

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Our decision is: Revisions Required

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- 4) Writtens in Fig. 4 is not readable, try to increase fonts or use two columns
Please attach an additional file with the changes made to the paper, as well as the final version of the paper.
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