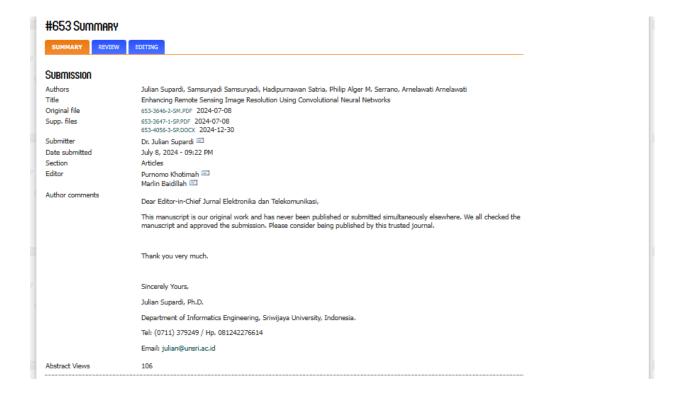Bukti Correspondence:

Judul Artikel: Enhancing Remote Sensing Image Resolution Using Convolutional Neural Networks

Authors: Julian Supardi, Samsuryadi Samsuryadi, Hadipurnawan Satria, Philip Alger M. Serrano, Arnelawati Arnelawati

Correspondence Author: Julian Supardi, email: julian@unsri.ac.id

#653 Summary

SUMMARY REVIEW EDITING

SUBMISSION

Authors	Julian Supardi, Samsuryadi Samsuryadi, Hadipurnawan Satria, Philip Alger M. Serrano, Arnelawati Arnelawati
Title	Enhancing Remote Sensing Image Resolution Using Convolutional Neural Networks
Original file	653-3646-2-SM.PDF 2024-07-08
Supp. files	653-3647-1-SP.PDF 2024-07-08
	653-4056-3-SP.DOCX 2024-12-30
Submitter	Dr. Julian Supardi ✉
Date submitted	July 8, 2024 - 09:22 PM
Section	Articles
Editor	Purnomo Khotimah ✉
	Marlin Baidillah ✉
Author comments	Dear Editor-in-Chief Jurnal Elektronika dan Telekomunikasi,
	This manuscript is our original work and has never been published or submitted simultaneously elsewhere. We all checked the manuscript and approved the submission. Please consider being published by this trusted journal.
	Thank you very much.
	Sincerely Yours,
	Julian Supardi, Ph.D.
	Department of Informatics Engineering, Sriwijaya University, Indonesia.
	Tel: (0711) 379249 / Hp. 081242276614
	Email: julian@unsri.ac.id
Abstract Views	106

Editor/Author Correspondence

Section
Editor

Subject: [JET] Editor Decision

2024-09-
02 09:32
AM

The following message is being delivered on behalf of Jurnal Elektronika dan Telekomunikasi.

Dr. Julian Supardi:

We have reached a decision regarding your submission to Jurnal Elektronika dan Telekomunikasi, "Enhancing Remote Sensing Image Resolution Using Convolutional Neural Networks".

Our decision is: Revisions Required

The author has to submit the revised manuscript along with a point-by-point response to the reviewer's comments. Please fill-up the form from the link below to explain your revisions and respond to the reviewers' and editor's comments.
For comments those you choose not to implement, please include a detailed reason why you think a change is inappropriate. Submit this form, along with your revised version of your manuscript once it finished. You can submit this form by click on ADD A SUPPLEMENTARY FILE on Summary Page.

Please submit your revision version through tab "REVIEW" > "editor decision"> "upload author version". We would appreciate a revision by {$reviewDueDate}.

here are some notes before uploaded revision manuscript:
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3. All authors are recommended to use Mendeley Desktop as a tool for reference management and formatting. Installation guidelines of JET reference style can be downloaded at https://www.jurnalet.com/public/JETMendeley.pdf
All authors also should provide all references as a single BibTex file, then upload them as a supplementary file.

I look forward to receiving your revision.

Marlin Ramadhan Baidillah
National Research and Innovation Agency (BRIN)
marlin.ramadhan.baidillah@brin.go.id

Reviewer A:

Presentation and organization
 (Title, Abstract, Introduction, Method, Results and Discussion, Conclusion, Language)
• Is the paper well written enough for evaluation of technical content?
• Does the title reflect the contents of the paper?
• Does the abstract describe the essential information in the work?
• Does the introductory section adequately explain the framework and problems of the research?
• Are the importance and usefulness of this research work clear?
• Were the methods adequately described and was the method appropriate to answer the question posed?
• Are the results presented clearly and discussed satisfactorily?
• Are conclusions logically derived from the data presented? Are the figures and tables easily readable, correct and informative?
• Are sufficient references cited for providing a background to the research?
Please provide your detailed comments to the Author(s) on the following.
:
This study explains how to improve the resolution of satellite-based data using the CNN algorithm. The writing is generally reasonable. However, this scientific paper has several things that need to be improved, such as the following points:
1. The abstract does not show concrete research results, such as the percentage of success of the method or the results of the evaluation matrix carried out
2. In the initial part of the explanation of the proposed method, it would be better to explain the methods carried out previously as another perspective of the proposed method.
3. Can you elaborate on what is meant by SSIM and PSNR to clarify the readers of this article

Originality, scientific sound of the paper and its contribution to the field
• How original and creative are the idea and approach?
• Does the paper contain major or significant contribution adequate to justify publication?
• Have any parts of the paper already been published or considered for other publication?
• Is the paper scientifically sound and not misleading?
• Does it provide sufficient information and in-depth discussion?
Please provide your detailed comments to the Author(s) on the following.:
This article proposes a method for improving the resolution of data derived from satellite imagery. The proposed method is commendable because it provides enough information for readers to discuss in depth. The article is scientifically sound and not misleading.

Originality, scientific sound of the paper and its contribution to the field
• How original and creative are the idea and approach?
• Does the paper contain major or significant contribution adequate to justify publication?
• Have any parts of the paper already been published or considered for other publication?
• Is the paper scientifically sound and not misleading?
• Does it provide sufficient information and in-depth discussion?
Please provide your detailed comments to the Author(s) on the following.:
Upscaling techniques have been extensively explored, particularly in the field of super-resolution. However, there is always room for improvement in terms of performance. The paper surely offers a contribution to the field, however, the extent of its contribution to the field is somewhat limited (from reviewer point of view). With clearer explanations of the methodology, the paper has the potential to be scientifically sound. While the paper is lack of in-depth discussion of the results (which would enhance the paper's impact if its there), the sufficient information is presented.

Reviewer C:

Presentation and organization
 (Title, Abstract, Introduction, Method, Results and Discussion, Conclusion, Language)
• Is the paper well written enough for evaluation of technical content?
• Does the title reflect the contents of the paper?
• Does the abstract describe the essential information in the work?
• Does the introductory section adequately explain the framework and problems of the research?
• Are the importance and usefulness of this research work clear?
• Were the methods adequately described and was the method appropriate to answer the question posed?
• Are the results presented clearly and discussed satisfactorily?
• Are conclusions logically derived from the data presented? Are the figures and tables easily readable, correct and informative?
• Are sufficient references cited for providing a background to the research?
Please provide your detailed comments to the Author(s) on the following.
:
First of all, the paper demonstrates potential but requires significant improvement in several areas.

Title: The title is really represent the manuscript, the concept idea can be easily grasp from it.
Abstract: The abstract is insufficiently detailed. It should clearly state the problem, provide a concise overview of the proposed method (beyond simply mentioning CNN), and include quantitative results (PSNR/SSIM values).
Introduction: While the introduction is well-written, it underemphasizes the importance of high PSNR/SSIM values. A stronger justification for pursuing these metrics is necessary.
Method: The method section is unclear and lacks essential details. Data preparation is not described, and the network architecture is inconsistent. The illustration should include all layers, and the role of the bicubic connection should be explained. Additionally, the concatenation block with only one input and the unconnected block require clarification. A flowchart would improve the overall understanding of the workflow.
Results: The presentation of both quantitative and qualitative results is effective.
Conclusion: The conclusion is well-supported by the results. Figures and data visualizations are clear and easy to interpret.
References: The reference list is adequate.

Reviewer D:

Presentation and organization
(Title, Abstract, Introduction, Method, Results and Discussion, Conclusion, Language)
• Is the paper well written enough for evaluation of technical content?
• Does the title reflect the contents of the paper?
• Does the abstract describe the essential information in the work?
• Does the introductory section adequately explain the framework and problems of the research?
• Are the importance and usefulness of this research work clear?
• Were the methods adequately described and was the method appropriate to answer the question posed?
• Are the results presented clearly and discussed satisfactorily?
• Are conclusions logically derived from the data presented? Are the figures and tables easily readable, correct and informative?
• Are sufficient references cited for providing a background to the research?
Please provide your detailed comments to the Author(s) on the following.
:
1. Regarding Figure 1, you don't need to put the image in the introduction section
2. Still related to the introduction too, you mention a lot of concepts without being based on citations, please pay attention and correct them.
3. You don't explain what kind of research gap you want to solve. Please fix it

Originality, scientific sound of the paper and its contribution to the field
• How original and creative are the idea and approach?
• Does the paper contain major or significant contribution adequate to justify publication?
• Have any parts of the paper already been published or considered for other publication?
• Is the paper scientifically sound and not misleading?
• Does it provide sufficient information and in-depth discussion?
Please provide your detailed comments to the Author(s) on the following.:
This paper has a good contribution to satellite image data processing.

Section Editor	Subject: [JET] Editor Decision	DELETE

The following message is being delivered on behalf of Jurnal Elektronika dan Telekomunikasi.

Dr. Julian Supardi:

Regarding our prior decision, which is "Revision Required", towards your submission to Jurnal Elektronika dan Telekomunikasi, "Enhancing Remote Sensing Image Resolution Using Convolutional Neural Networks"; we would like to inform you that we would appreciate a revision by 4 October 2024.

We look forward to receiving your revision.

Dr. Purnomo Husnul Khotimah
National Research and Innovation Agency
purn005@brin.go.id

Jurnal Elektronika dan Telekomunikasi
http://www.jurnalet.com

Author	Subject: Enhancing Remote Sensing Image Resolution Using Convolutional Neural Networks	DELETE

The following message is being delivered on behalf of Jurnal Elektronika dan Telekomunikasi.

Dear Dr. Purnomo Husnul Khotimah and Dr. Marlin Ramadhan Baidillah,
We have completed the revision of the manuscript based on the point-to-point reviewer's comments. we hope that the responses given are in accordance with those suggested or asked by the reviewer.

Thank you very much for your help.

Best Regards

Julian Supardi, Ph.D

Jurnal Elektronika dan Telekomunikasi
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Subject: [JET] Editor Decision (Revision required)

The following message is being delivered on behalf of Jurnal Elektronika dan Telekomunikasi.

Dr. Julian Supardi:

We have reached a decision regarding your submission to Jurnal Elektronika dan Telekomunikasi, "Enhancing Remote Sensing Image Resolution Using Convolutional Neural Networks".

Our decision is: Revisions Required (Minor revision at Round 2)

The author has to submit the revised manuscript along with a point-by-point response to the reviewer's comments. Please fill-up the form from the link below to explain your revisions and respond to the reviewers' and editor's comments.
For comments those you choose not to implement, please include a detailed reason why you think a change is inappropriate. Submit this form, along with your revised version of your manuscript once it finished. You can submit this form by click on ADD A SUPPLEMENTARY FILE on Summary Page.

Please submit your revision version through tab "REVIEW" > "editor decision"> "upload author version". We would appreciate a revision by 22 November 2024.

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All authors also should provide all references as a single BibTex file, then upload them as a supplementary file.

I look forward to receiving your revision.

Marlin Ramadhan Baidillah
National Research and Innovation Agency (BRIN)

Review comments from Section Editor:
1. In figure 3 and 4, define clearly each variable. Also, the bias symbol is not consistence, I found it is as "b" in other parts it is as "B". please check the consistency of all variables.

2. Usually variables in bold type is for vector. use consistency the font type of all variables.

3. The figure size of figure 5 is not proportional. make it more better.

4. The discussion part should consider the different or comparison accuracy results between this study and the published studies.

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The following message is being delivered on behalf of Jurnal Elektronika dan Telekomunikasi.

Dr. Julian Supardi:

We have reached a decision regarding your submission to Jurnal Elektronika dan Telekomunikasi, "Enhancing Remote Sensing Image Resolution Using Convolutional Neural Networks".

Our decision is to: Accept Submission

here are some notes before uploaded revision manuscript:
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Marlin Ramadhan Baidillah
National Research and Innovation Agency (BRIN)
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