

Reviewer Feedback Form

Date August 3, 2022

International Journal of Advanced Computer Science and Applications (IJACSA)

Paper Title The performance evaluation of transfer learning VGG16 algorithm on various chest X-ray imaging datasets for COVID-19 detection

Reviewer Recommendation

Reviewer Ratings

The authors contribution to the paper	Fair
Potential interest to research community	Fair
Originality of the work	Fair
Use of examples and illustrations	Fair
Quality of questions or problems raised by the Author	Fair
Reader's confidence in Author's knowledge	Fair
Formatting and Presentation	Good
Awareness of related work	Fair
Scientific Impact or Practical Utility	Good
Citations and References	Fair
Paper Organization	Good

Detailed Comments:

The authors proposed a framework that detects COVID-19 from chest X-ray images. The authors used VGG-16 as baseline framework. Overall, the paper is well written and organized, however, i have following comments the authors need to consider:

1. Please highlight the contribution of your work with reference to previous work
2. Please remove the word "detection" from the title, as this work focuses on the classification of x-ray images. Please correct me if i am wrong.
3. The proposed framework used VGG-16 as black box without exploiting the multi-scale information that exists in multiple layers of the network. A framework that exploits multi-scale information is proposed in the following reference. Please discuss what will be the effect of using the following framework on the final performance.
 - a. "A deep-fusion network for crowd counting in high-density crowded scenes." International Journal of Computational Intelligence Systems 14, no. 1 (2021): 1-12.

Grammar, punctuation, or spelling errors:

There are grammatical mistakes. The authors need to thoroughly review and rectify the grammatical errors

Reviewer Feedback Form

Date August 5, 2022

International Journal of Advanced Computer Science and Applications (IJACSA)

Paper Title

The Performance Evaluation of Transfer Learning VGG16 Algorithm on Various Chest X-ray Imaging Datasets for COVID-19 Detection

Reviewer Recommendation

Neutral

Reviewer Ratings

The authors contribution to the paper	Fair
Potential interest to research community	Poor
Originality of the work	Fair
Use of examples and illustrations	Poor
Quality of questions or problems raised by the Author	Fair
Reader's confidence in Author's knowledge	Fair
Formatting and Presentation	Fair
Awareness of related work	Fair
Scientific Impact or Practical Utility	Poor
Citations and References	Fair
Paper Organization	Fair

Detailed Comments:

The aim of this study was to assess the performance of the VGG16 algorithm on different datasets. The study also confirmed the robustness of the VGG16 architecture when applied to datasets with various image numbers, classes, and class ratios on chest X-rays.

- Why the different comparative results on the different datasets? Are the proposed algorithms better suited to some types of data?
- The motivation of the practical use of the theoretic results obtained should be clearly addressed.
- The authors should have first listed the reasons for choosing proposed method which makes it appropriate for addressing such kind of problems. Additionally, which limitations of existing method are not suitable for the problem in hand should be pointed out.
- The author has drafted the paper nicely with proper diagrams and illustrations. Author must have added the future scope in this paper i.e. What will be the future work of the author by taking this particular paper as the base.

A round of proof reading is strongly recommended.

Grammar, punctuation, or spelling errors:



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IJACSA Acceptance Notification - Volume 13 No 8 August 2022

1 message

Editor IJACSA <editorijacsa@thesai.org>

Thu, Aug 11, 2022 at 7:48 PM

To: andi@amikom.ac.id, yoga.pristyanto@amikom.ac.id, arief_s@amikom.ac.id, fkarfaj@imamu.edu.sa, nyalmusallam@imamu.edu.sa, محمد عبدالرحمن محمد الرشودي <mo.alreshoodi@qu.edu.sa>

Dear Author(s),

Congratulations, your submitted paper titled "The Performance Evaluation of Transfer Learning VGG16 Algorithm on Various Chest X-ray Imaging Datasets for COVID-19 Detection" has been reviewed and accepted for publication in the [International Journal of Advanced Computer Science and Applications \(IJACSA\) - Volume 13 No 8 August 2022](#).

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Reviewer Feedback

All submitted manuscripts were subject to a double-blind peer review process. The Editorial Board has decided that the reviewers' feedback will be emailed to the author(s) after registration.

Wishing you all the best and hope to hear from you soon,

Regards,
Editor
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The Science and Information (SAI) Organization