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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
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Judul Jurnal Ilmiah (Artikel)	:	Android skin cancer detection and classification based on MobileNet v2 model		
Jumlah Penulis	:	Tiga (**Adi Wibowo**, Cahyo Adhy Hartanto, Panji Wisnu Wirawan)		
Status Pengusul	:	penulis ke 1 (Satu) / Korespondensi		
Identitas Jurnal Ilmiah	:	a. Nama Jurnal	:	International Journal of Advances in Intelligent Informatics
		b. Nomor ISSN	:	2442-6571
		c. Vol, No., Bln Thn	:	Volume 6, No.2, 2020
		d. Penerbit	:	Universitas Ahmad Dahlan
		e. DOI artikel (jika ada)	:	https://doi.org/10.26555/ijain.v6i2.492
		f. Alamat web jurnal	:	https://ijain.org/index.php/IJAIN/article/view/492
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   Dalam paper ini, membahas tentang pengembangan aplikasi diagnosis kanker kulit berbasis smartphone yang memungkinkan deteksi risiko dan diagnosis melanoma secara portabel. Trade-off (masalah kompleksitas waktu dan tingkat kesalahan) dalam menggunakan smartphone untuk menjalankan algoritma pembelajaran mesin untuk analisis gambar menyebabkan sebagian besar aplikasi diagnosis kanker kulit mengeksekusi analisis gambar di server.
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NIP : 197203111998021001
Unit Kerja: Fakultas Sains dan Matematika

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   Dalam makalah ini dibahas mengenai pengembangan aplikasi diagnosis kanker kulit berbasis smartphone yang memungkinkan deteksi risiko dan diagnosis melanoma dengan cara yang mudah dan portabel. Meskipun penggunaan smartphone untuk menjalankan algoritma pembelajaran mesin untuk analisis gambar sangat kompleks dan berisiko tinggi terjadi kesalahan, namun kebanyakan aplikasi diagnosis kanker kulit menggunakan server untuk menerapkan algoritma tersebut demi menghindari masalah tersebut.
3. **Kecukupan dan kemutakhiran data/informasi dan metodologi:**
   Dalam studi tersebut, telah diperoleh sekumpulan informasi yang didukung oleh metodologi yang tepat dan didukung oleh referensi yang terbaru, yaitu kurang dari 5 tahun yang lalu, dengan total sebanyak 22.
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Android skin cancer detection and classification based on mobilenet v2 model

Wibowo, Adi ; Hartanto, Cahyo Adhi ; Wirawan, Panji Wisnu

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Abstract

The latest developments in the smartphone-based skin cancer diagnosis application allow simple ways for portable melanoma risk assessment and diagnosis for early skin cancer detection. Due to the trade-off problem (time complexity and error rate) on using a smartphone to run a machine learning algorithm for image analysis, most of the skin cancer diagnosis apps execute the image analysis on the server. In this study, we investigate the performance of skin cancer images detection and classification on Android devices using the MobileNet v2 deep learning model. We compare the performance of several aspects; object detection and classification method, computer and Android based image analysis, image acquisition method, and setting parameter. Skin cancer actinic Keratosis and Melanoma are used to test the performance of the proposed method. Accuracy, sensitivity, specificity, and running time of the testing methods are used for the measurement. Based on the experiment results, the best parameter for the MobileNet v2 model on Android using images from the smartphone camera produces 95% accuracy for object detection and 70% accuracy for classification. The performance of the

Android app for object detection and classification model was feasible for the skin cancer analysis. Android-based image analysis remains within the threshold of computing time that denotes convenience for the user and has the same performance accuracy with the computer for the high-quality images. These findings motivated the development of disease detection processing on Android using a smartphone camera, which aims to achieve real-time detection and classification with high accuracy.

Author keywords

Android; Deep learning; MobileNet v2; Skin cancer

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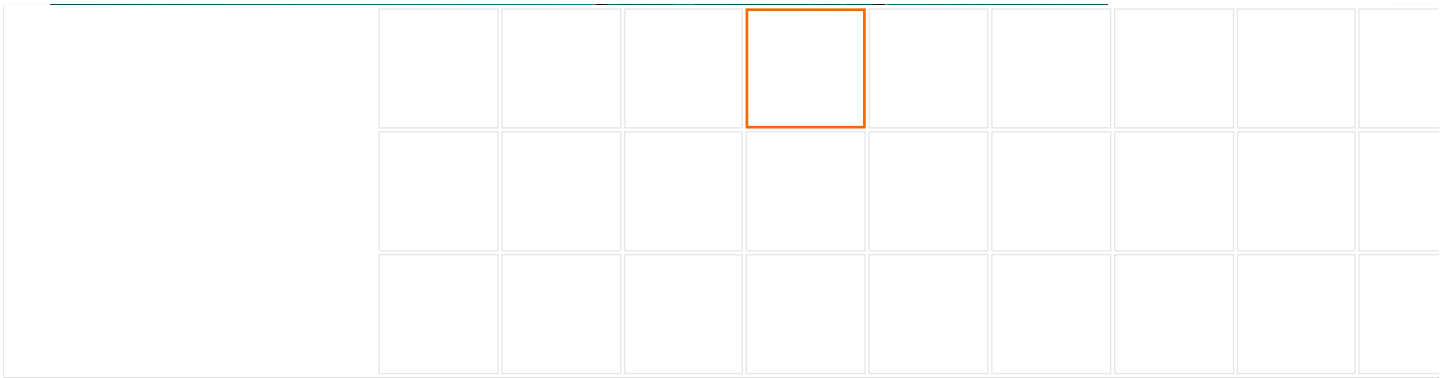

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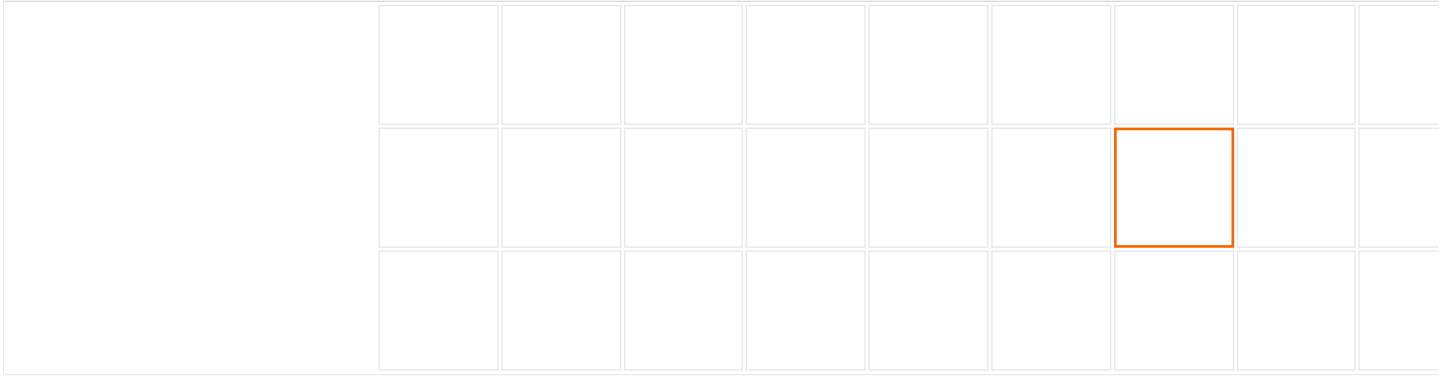

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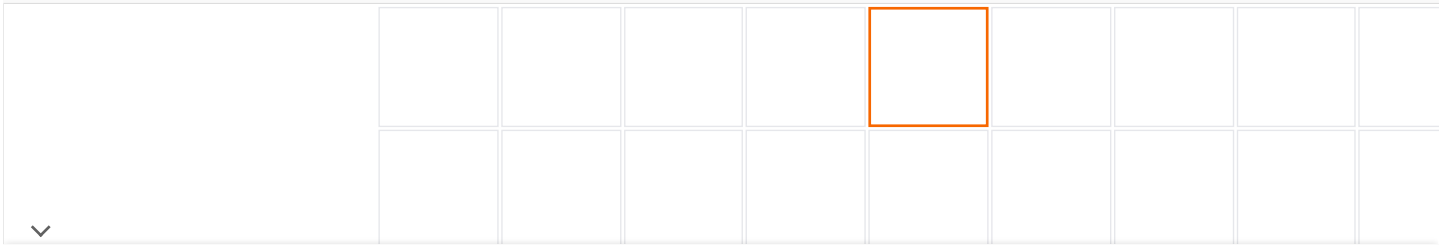

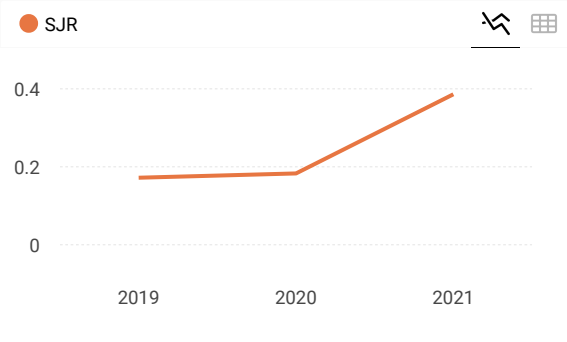

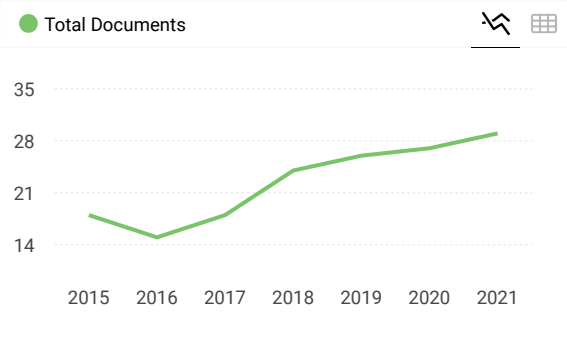

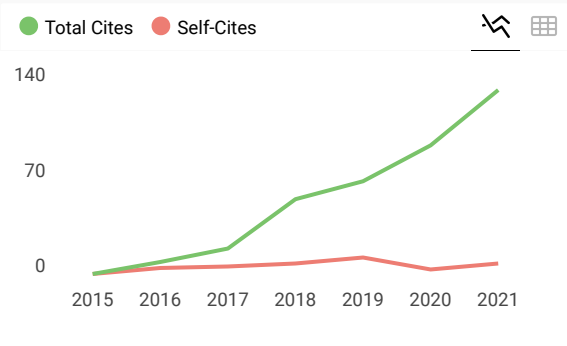

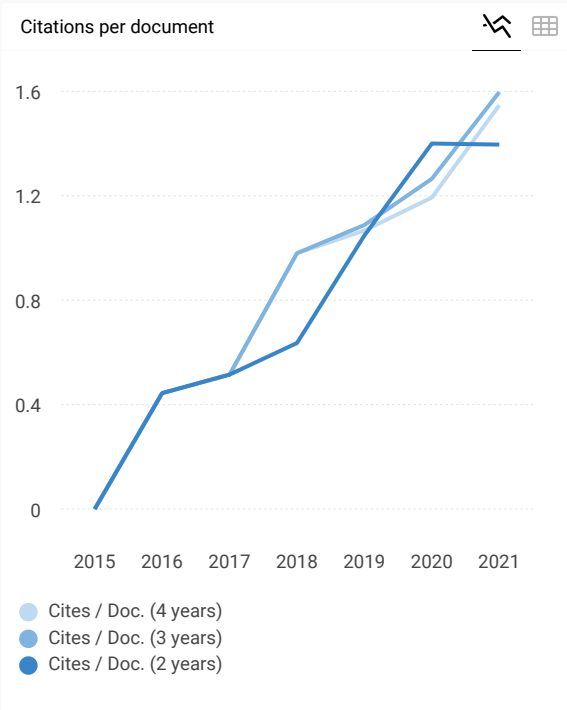

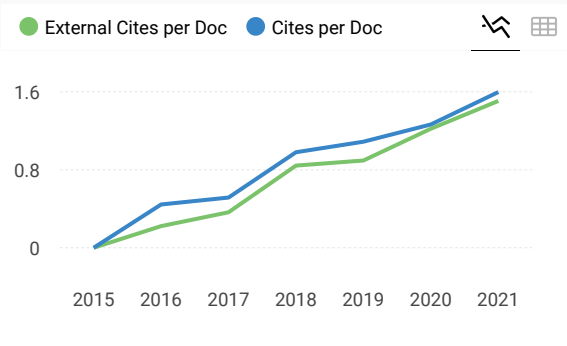

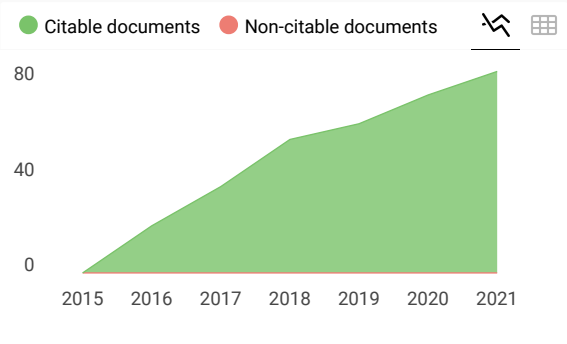

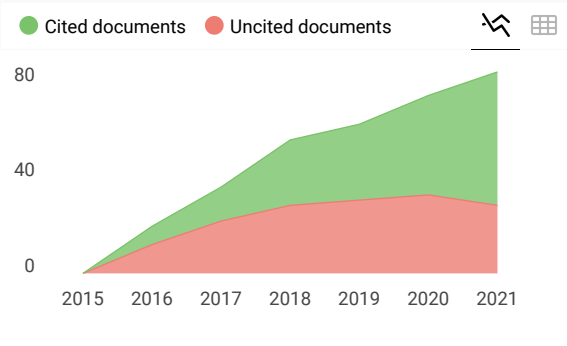

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We suggest you visit the journal's homepage or contact the journal's editorial staff , so they could inform you more deeply.
Best Regards, SCImago Team

A **Agus SA** 2 years ago

This journal is covered by scopus from 2015 to 2019. In 2021, if I publish a paper in this journal, can it be covered by scopus too?

reply

SCImago Team

Melanie Ortiz 2 years ago

Dear Agus,
Thank you very much for your comment.
All the metadata have been provided by Scopus /Elsevier in their last update sent to SCImago, including the Coverage's period data. The SJR for 2019 was released on 11 June 2020. We suggest you consult the Scopus database directly to see the current index status as SJR is a static image of Scopus, which is changing every day.
For further information, please contact Scopus support:
https://service.elsevier.com/app/answers/detail/a_id/14883/kw/scimago/supporthub/scopus/
Best Regards, SCImago Team

reply

SCImago Team

Melanie Ortiz 2 years ago

Dear Nellawahyu,
Thank you for contacting us. Could you please expand a little bit on your comment?
Best Regards, SCImago Team

Leave a comment

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The users of Scimago Journal & Country Rank have the possibility to dialogue through comments linked to a specific journal. The purpose is to have a forum in which general doubts about the processes of publication in the journal, experiences and other issues derived from the publication of papers are resolved. For topics on particular articles, maintain the dialogue through the usual channels with your editor.

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[IJAIN] Editor Decision for Paper entitled (Android Skin Cancer Detection and Classification based on MobileNet v2 Model)

1 message

Andri Pranolo <info@ijain.org> Mon, Jun 8, 2020 at 8:57 AM
To: Adi Wibowo <bowo.adi@live.undip.ac.id>
Cc: Cahyo Adhi Hartanto <cahyo.adhi97@gmail.com>, Panji Wisnu Wirawan <panji@lecturer.undip.ac.id>, ijain@uad.ac.id

Adi Wibowo:

We have reached a decision regarding your submission to International Journal of Advances in Intelligent Informatics, "Android Skin Cancer Detection and Classification based on MobileNet v2 Model" as a Selected paper of SAIN 2019.

Our decision is: Accept with Minor Revisions

Please kindly submit the revision before TWO WEEKS after received this notification, and follow the instructions carefully,

1. Do the corrections with track changes.

2. We required 3 files as feedback, a) File with track changes corrections; b) A file without track changes (Final copy/clean copy); c) Table of correction as a response to editors/ Reviewers comments. Upload all files in *.ZIP extension file.

3. Follow IJAIN author guidelines at
http://ijain.org/index.php/IJAIN/about/submissions#authorGuidelines

Please NOTED that if the author(s) not follow the feedback instruction and submit the revisions at the time, it would be editor(s) reasons to DECLINE your submission.

Should you have any queries please do not hesitate to contact us by email. We look forward to hearing from you.

Regards,

Andri Pranolo
(Managing Editor)

Reviewer D:

Significance:
Excellent

Originality:
Excellent

Quality:
Good

Clarity:
Excellent

Relevance:
Good

Technical (1): Structure of the paper:
Good

Technical (2): Standard of English:
Good

Technical (3): Appropriateness of abstract as a description of the paper:
Good

Technical (4): Use and number of keywords/key phrases:
Good

Technical (5): Relevance and clarity of drawings, graphs and tables:
Excellent

Technical (6): Discussion and conclusions:
Good

Technical (7): Reference list, adequate and correctly cited:
Good

Explanations for the above ratings and other general comments on major issues:
The topic of the research is very interesting and relevant, it has great applicability. The paper is well structured and organized. A different use is shown for MobileNet, as a machine learning tool used not only for detection but classification. The methodology is clearly defined. The number and quantity of references are adequate. Some details to correct:

- Better writing some expressions, such as "This is very small", can be written as "this is exceedingly small". Another example: "In the images analysis process", should be "In the image's analysis process"; "it can be seen that when", it can be simply "when"

- It is recommended in the conclusions to specify the future work that can be done from the research carried out.

Comments on the minor details of the article:
- In Fig. 5, what is the correct word, "Deptwise" or "Depthwise"?

- It is recommended to place tables 5 and 6 exactly below Scenario 3, so as not to lose continuity in understanding the reading. In other scenarios, they have an order that facilitates understanding. They explain the scenario, they expose the tables of results and figures, with the exception of scenario 3.

Reviewer E:

Significance:
Good

Originality:
Good

Quality:
Excellent

Clarity:
Good

Relevance:
Good

Technical (1): Structure of the paper:
Excellent

Technical (2): Standard of English:
Good

Technical (3): Appropriateness of abstract as a description of the paper:
Excellent

Technical (4): Use and number of keywords/key phrases:
Good

Technical (5): Relevance and clarity of drawings, graphs and tables:
Excellent

Technical (6): Discussion and conclusions:
Excellent

Technical (7): Reference list, adequate and correctly cited:
Excellent

Explanations for the above ratings and other general comments on major issues:

Comments on the minor details of the article:
The article is reasonable and somehow interesting. It demonstrates a portable algorithm that can diagnose skin cancer using mobile phone in the early stage. A multi-scale analysis phase using several separable convolution steps is introduced to the proposed network to improve the accuracy. The performance is tested using zoom-in images at different scales. As its main contribution, this work improves the accuracy of skin cancer detection with limited computation power. Therefore, in my opinion, the work is somehow interesting.

Reviewer F:

Significance:
Good

Originality:
Good

Quality:
Excellent

Clarity:
Good

Relevance:
Excellent

Technical (1): Structure of the paper:
Excellent

Technical (2): Standard of English:
Excellent

Technical (3): Appropriateness of abstract as a description of the paper:
Excellent

Technical (4): Use and number of keywords/key phrases:
Good

Technical (5): Relevance and clarity of drawings, graphs and tables:
Excellent

Technical (6): Discussion and conclusions:
Good

Technical (7): Reference list, adequate and correctly cited:
Good

Explanations for the above ratings and other general comments on major issues:

Comments on the minor details of the article:
This is a good paper on the novel neural network usage and deep learning

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#492 Review

Submission

Authors	Adi Wibowo, Cahyo Adhi Hartanto, Panji Wisnu Wirawan
Title	Android skin cancer detection and classification based on MobileNet v2 model
Section	Articles
Editor	Andri Pranolo

Peer Review

Round 1

Review Version	492-1473-1-RV.DOC 2020-04-09
Initiated	2020-04-25
Last modified	2020-06-08
Uploaded file	None

Editor Decision

Decision	Accept Submission 2020-06-18
Notify Editor	Editor/Author Email Record 2020-06-18
Editor Version	None
Author Version	492-1529-1-ED.ZIP 2020-06-18 DELETE
Upload Author Version	Choose File No file chosen Upload

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  - Submission Accepted: **June 5, 2018**
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  - Latest submission: June 11, 2018
  - **Web of Science** Citation Analysis
- **IET INSPEC**
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- **COMPENDEX**
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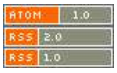

KEYWORDS

CNN Class Imbalance Classification Computer vision Deep learning EEG Feature selection Forecasting GPU Iris recognition Machine Learning Machine learning Neural network Ontology Recurrent Neural Networks SVM Scheduling Transfer Learning computer vision convolutional neural network feature selection

International Journal of Advances in Intelligent Informatics
"Android Skin Cancer Detection and Classification based on MobileNet v2 Model"
by Adi Wibowo, Cahyo Adhi Hartanto, Panji Wisnu Wirawan
Submission Number : 492

Dear Editor,

We thank the editor and reviewers for their careful reading of our manuscript and for their useful comments in our resubmission. Please find attached a revised version of our manuscript, titled "Android Skin Cancer Detection and Classification based on MobileNet v2 Model," which we would like to re-submit for publication in International Journal of Advances in Intelligent Informatics.

We greatly appreciate the opportunity to publish our manuscript to International Journal of Advances in Intelligent Informatics for this first round of resubmission; we have revised with agreements on reviewers' beneficial comments and recommendations.

In the following pages, we outline our point-by-point responses to each of the reviewers' comments. We hope that the revisions of our manuscript and our accompanying responses here will be sufficient to ensure publication of our manuscript in International Journal of Advances in Intelligent Informatics.

Yours sincerely,
Adi Wibowo

Authors' response

#	Editor/Reviewer Comment	Author response	Added text (or action)

We wish to thank the Reviewer for his or her valuable comments.

Reviewers' Comments

Reviewer D

	The topic of the research is very interesting and relevant, it has great applicability. The paper is well structured and organized. A different use is shown for MobileNet, as a machine learning tool used not only for detection but classification. The methodology is clearly defined. The number and quantity of references are adequate.	We thank the reviewer for careful reading and pertinent comments.	
	Better writing some expressions, such as "This is very small", can be written as "this is exceedingly small". Another example: "In the images	We thank the reviewer for careful reading. We rewrite the expressions.	We revised the text of expressions in the introduction section; 4th paragraph, 5th paragraph. Moreover, we add a text about the code of this study in the last paragraph of the

analysis process", should be "In the image's analysis process"; "it can be seen that when", it can be simply "when"		introduction section. …. The code is publicly available through https://github.com/bowoadi/Melanomax/.....
It is recommended in the conclusions to specify the future work that can be done from the research carried out.	The future work has been written on discussion, but to make it easier to follow, we relocated the future work statement from the discussion section to the conclusions. Moreover, we add several more research opportunities that possible to carried out.	We relocated the future work statement from the discussion section to the conclusions. …….. Several further potential developments are possible to be performed in order to enhance the results. In the classification model, it is possible to add a dropout layer to reduce the event of overfitting [31]. Adam's optimization [32] is also possible to set the learning rate more adaptive so that the model can identify more high-grade features. Integrating segmentation of skin lesions as the picture preprocessing step also is potentially improved the accuracy of skin cancer classification. Moreover, standardization of images acquisition can be used to capture high-quality images and excellent visibility. The use of compact microscopes for smartphones that can function as dermascope can be implemented by connecting the compact microscope with the android camera.

Comments on the minor details of the article: - In Fig. 5, what is the correct word, "Deptwise" or "Depthwise"?	We thank the reviewer for careful reading and pertinent comments. We have mistaken the writing the depthwise	We revised the text of depthwise at Fig.5
It is recommended to place tables 5 and 6 exactly below Scenario 3, so as not to lose continuity in understanding the reading. In other scenarios, they have an order that facilitates understanding. They explain the scenario, they expose the tables of results and figures, with the exception of scenario 3.	We thank the reviewer for careful reading and pertinent comments. We replace the tables and figures position to make easy for understanding reading.	We moved tables 5 and 6 exactly below Scenario 3 and revised the text position. We arranged some figure positions such as Fig. 13, Fig.14, and Fig. 15.

Reviewer E

The article is reasonable and somehow interesting. It demonstrates a portable algorithm that can diagnose skin cancer using mobile phone in the early stage. A multi-scale analysis phase using several separable convolution steps is introduced to the proposed network to improve the	We thank the reviewer for careful reading and pertinent comments.	

accuracy. The performance is tested using zoom-in images at different scales. As its main contribution, this work improves the accuracy of skin cancer detection with limited computation power. Therefore, in my opinion, the work is somehow interesting.	

Reviewer F

This is a good paper on the novel neural network usage and deep learning	We thank the reviewer for careful reading and pertinent comments.