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ICEBEHI 2021 submission 33 update

1 pesan

ICEBEHI 2021 <icebehi2021@easychair.org>

1 Juli 2021 14.33

Kepada: Faisal Dharma Adhinata <faisal@ittelkom-pwt.ac.id>

Dear authors,

we acknowledge that we received new files for your ICEBEHI 2021 submission. The information about this update is shown below.

Number: 33

Authors: Faisal Dharma Adhinata, Nia Annisa Ferani Tanjung, Widi Widayat, Fadlan Raka Satura and Gracia Rizka Pasfica

Title: Real-time Masked Face Recognition Using FaceNet and Supervised Machine Learning

Uploaded by: a conference chair

Updates:

paper, version 4 (447289 bytes)

To access the new version of your submission you should log in to the ICEBEHI 2021 EasyChair page.

ICEBEHI 2021 notification for paper 33 (second round review)

2 pesan

ICEBEHI 2021 <icebehi2021@easychair.org>

28 Juli 2021 12.13

Kepada: Faisal Dharma Adhinata <faisal@ittelkom-pwt.ac.id>

Dear Prof./Dr./ Mr./Mrs. Faisal Dharma Adhinata

Congratulation, we have reviewed and accepted your full paper to enter the next stage (second round review), 33 :Real-time Masked Face Recognition Using FaceNet and Supervised Machine Learning . You should send your revised full paper according to the reviewer's suggestion by email. The due date for the revised version of the full paper is [5 August 2021, Early bird I]. Please answer the reviewer's comment using the response form below.

Respons to reviewer form:

<https://drive.google.com/file/d/16b8q6y2OSJq6Q4i7fhPGUB6W2Vdl8PG-/view?usp=sharing>

Template LNEE (DOCM) and JBBBE (DOCX)

<https://drive.google.com/drive/folders/1uPBxPFLVbP8D4dCteu4IU0T7cPdVjgFT?usp=sharing>

Registration Confirmation Form [Early Bird, 5 August 2021]

https://icebehi.poltekkesdepkes-sby.ac.id/?page_id=55

Note:

1. The revised paper and reviewer response are sent by email (icebehi@poltekkesdepkes-sby.ac.id). Thank you.
2. LNEE template should be saved as DOCM and JBBBE template should be save as DOCX

regard

ICEBEHI's chair

International Conference on Electronics, Biomedical Engineering, and Health Informatics

Email: icebehi@poltekkesdepkes-sby.ac.id

SUBMISSION: 33

TITLE: Real-time Masked Face Recognition Using FaceNet and Supervised Machine Learning

----- REVIEW 1 -----

SUBMISSION: 33

TITLE: Real-time Masked Face Recognition Using FaceNet and Supervised Machine Learning

AUTHORS: Faisal Dharma Adhinata, Nia Annisa Ferani Tanjung, Widi Widayat, Fadlan Raka Satura and Gracia Rizka Pasfica

----- Title -----

SCORE: 4 (good)

----- TEXT:

This title is good because it contains the object, method, purpose, and specialty of the research.

----- Abstract -----

SCORE: 4 (good)

----- TEXT:

Are the three classification methods used separately? If yes, then the results section should mention the value generated from each classification method.

----- Introduction -----

SCORE: 4 (good)

----- TEXT:

In the first paragraph, some general statements should not be taken from references to research articles such as "An individual is usually recognized through facial features such as shape, hair, nose, mouth, eyes, and eyebrows."

The introduction section has explained the problem, novelty, and originality of the research.

----- Materials and Method -----

SCORE: 4 (good)

----- TEXT:

Each image displayed should be declared beforehand through a statement sentence. Figure 1 has not been

declared with a statement sentence.

The data acquisition sub-chapter has not explained the facial expressions of the research subjects. Does the subject use the normal expression or free expression?

----- Results -----

SCORE: 4 (good)

----- TEXT:

In the first paragraph, the computer specifications used should be placed in the Material and Method sub-section. In the Result sub-chapter, the results of the three stages of classification methods and processing time have been discussed.

----- Discussion -----

SCORE: 4 (good)

----- TEXT:

If the facial expressions of the subjects are not the focus of this study, it can be included in the limitations of the study.

----- Conclusion -----

SCORE: 4 (good)

----- TEXT:

It is advisable to mention the best results from each classification method used.

----- References -----

SCORE: 4 (good)

----- TEXT:

Research references have used the latest articles.

----- Overall evaluation -----

SCORE: 2 (accept)

----- TEXT:

This study solves the problem encountered during the pandemic, namely facial recognition of people who use face masks. There are 2 main stages in this research, namely feature extraction using FaceNet and 3 signal classification methods (Support Vector Machine (SVM), K-Nearest Neighbor, and Random Forest.

----- REVIEW 2 -----

SUBMISSION: 33

TITLE: Real-time Masked Face Recognition Using FaceNet and Supervised Machine Learning

AUTHORS: Faisal Dharma Adhinata, Nia Annisa Ferani Tanjung, Widi Widayat, Fadlan Raka Satura and Gracia Rizka Pasfica

----- Title -----

SCORE: 5 (excellent)

----- TEXT:

title selection is quite good and interesting. it already describes research work

----- Abstract -----

SCORE: 4 (good)

----- TEXT:

You may consider adding references to your current research job position.

----- Introduction -----

SCORE: 4 (good)

----- TEXT:

in fig.9, is KNN=9 done with Manhattan too?

----- Materials and Method -----

SCORE: 4 (good)

----- TEXT:

in fig.9, is KNN=9 done with Manhattan too?

----- Results -----

SCORE: 5 (excellent)

----- TEXT:

this part shows well

----- Discussion -----

SCORE: 4 (good)

----- TEXT:

good

----- Conclusion -----

SCORE: 4 (good)

----- TEXT:

good

----- References -----

SCORE: 4 (good)

----- TEXT:

good

----- Overall evaluation -----

SCORE: 2 (accept)

----- TEXT:

This article is written with attention to the important parts of the research work. all parts well presented. I consider that this article deserves to be accepted.

Faisal Dharma Adhinata <faisal@ittelkom-pwt.ac.id>
Kepada: Nia Annisa Ferani T <nia@ittelkom-pwt.ac.id>

30 Juli 2021 20.16

[Kutipan teks disembunyikan]

My Submissions	ICEBEHI 2021	Conference	News	EasyChair
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ICEBEHI 2021 Submission 33

Submission information updates are disabled.

For all questions related to processing your submission you should contact the conference organizers. [Click here to see information about this conference.](#)

All **reviews sent to you** can be found at the bottom of this page.

Submission 33	
Title	Real-time Masked Face Recognition Using FaceNet and Supervised Machine Learning
Paper:	 (Jul 01, 07:33 GMT) (previous versions)
Author keywords	Coronavirus pandemic FaceNet Masked face recognition Multiclass SVM Real-time
EasyChair keyphrases	real time video data (260), masked face recognition (248), real time (230), face recognition (226), random forest (225), masked face (175), feature extraction (145), video data (100), masked face recognition system (100), classification result (80), random forest method (79), real time video (79), real time masked face recognition (69), facial feature extraction (63), data processing speed (63), triplet loss function (63), video frame (60), accuracy value (50), testing stage (50), face image (50), facial feature (50), classification stage (50), training face data (47), support vector machine (47), supervised machine learning (47), entropy gini entropy (47), multiclass svm method (47), real time data (47), video data processing (47), several supervised machine learning (40)
Topics	Electronics (general)
Abstract	The coronavirus pandemic has led to the implementation of health protocols such as the use of masks worldwide. Without exception, work activities also require the wearing of masks. This condition makes it difficult to recognize an individual's identity because the mask covers half of the face, especially when the employee is present. The attendance system recognizes a face without a mask more accurately, in contrast, a masked face makes identity recognition inaccurate. Therefore, this study proposes a combination of facial feature extraction using FaceNet and several classification methods. Three supervised machine learning methods were evaluated, namely multiclass Support Vector Machine (SVM), K-Nearest Neighbor, and Random Forest. Furthermore, the masked face recognition system was evaluated using real-time video data to assess the accuracy and processing time of the video frame. The results show that the combination of the FaceNet feature extraction method with multiclass SVM produces the best accuracy and data processing speed. The accuracy obtained was 96.15%, with a processing speed of 0.055 seconds or 18 frames per second (fps). Based on these results, the proposed combined method is suitable for real-time masked face recognition. This study provides an overview of the masked face recognition method so that it can be a reference for the contactless attendance system in this pandemic era.
Submitted	May 29, 15:46 GMT
Last update	Jun 25, 02:29 GMT

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first name	last name	email	country	affiliation	Web page	corresponding?
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Reviews

Review 1	
<i>Title</i>	4: (good) This title is good because it contains the object, method, purpose, and specialty of the research.
<i>Abstract</i>	4: (good) Are the three classification methods used separately? If yes, then the results section should mention the value generated from each classification method.
<i>Introduction</i>	4: (good) In the first paragraph, some general statements should not be taken from references to research articles such as "An individual is usually recognized through facial features such as shape, hair, nose, mouth, eyes, and eyebrows." The introduction section has explained the problem, novelty, and originality of the research.
<i>Materials and Method</i>	4: (good) Each image displayed should be declared beforehand through a statement sentence. Figure 1 has not been declared with a statement sentence. The data acquisition sub-chapter has not explained the facial expressions of the research subjects. Does the subject use the normal expression or free expression?
<i>Results</i>	4: (good) In the first paragraph, the computer specifications used should be placed in the Material and Method sub-section. In the Result sub-chapter, the results of the three stages of classification methods and processing time have been discussed.
<i>Discussion</i>	4: (good) If the facial expressions of the subjects are not the focus of this study, it can be included in the limitations of the study.
<i>Conclusion</i>	4: (good) It is advisable to mention the best results from each classification method used.
<i>References</i>	4: (good) Research references have used the latest articles.
<i>Overall evaluation</i>	2: (accept) This study solves the problem encountered during the pandemic, namely facial recognition of people who use face masks. There are 2 main stages in this research, namely feature extraction using FaceNet and 3 signal classification methods (Support Vector Machine (SVM), K-Nearest Neighbor, and Random Forest.

Review 2	
<i>Title</i>	5: (excellent) title selection is quite good and interesting. it already describes research work
<i>Abstract</i>	4: (good) You may consider adding references to your current research job position.
<i>Introduction</i>	4: (good) in fig.9, is KNN=9 done with Manhattan too?
<i>Materials and Method</i>	4: (good) in fig.9, is KNN=9 done with Manhattan too?

<i>Results</i>	5: (excellent) this part shows well
<i>Discussion</i>	4: (good) good
<i>Conclusion</i>	4: (good) good
<i>References</i>	4: (good) good
<i>Overall evaluation</i>	2: (accept) This article is written with attention to the important parts of the research work. all parts well presented. I consider that this article deserves to be accepted.

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