Institut Teknologi Telkom Purwokerto

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

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Dear Mr. Faisal Dharma Adhinata:

Thank you for uploading your paper 1570713269 (*Gender Classification on Video Using FaceNet Algorithm and Supervised Machine Learning*) to **Inter Journal of Computing and Digital Systems**. The paper is of type application/pdf and has a length of 826902 bytes.

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Regards,
Dr. Wael El-Medany
Managing Editor

Institut Teknologi Telkom Purwokerto

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

Your paper #1570713269 ('Gender Classification on Video Using FaceNet Algorithm and Supervised Machine Learning')

ijcds-chairs@edas.info <ijcds-chairs@edas.info> 19 Juni 2021 16.56
Balas Ke: ijcds-chairs@edas.info
Kepada: Faisal Dharma Adhinata <faisal@ittelkom-pwt.ac.id>, Apri Junaidi <apri@ittelkom-pwt.ac.id>
Cc: Reham Almesaeed <ralmesaeed@uob.edu.bh>, Wael M El-Medany <welmedany@uob.edu.bh>, Ijcds Secretary <IJCDS@uob.edu.bh>

Dear Mr. Faisal Dharma Adhinata:

Congratulations - your paper #1570713269 ('Gender Classification on Video Using FaceNet Algorithm and Supervised Machine Learning') for IJCDS has been accepted with minor revisions and will be published in the IJCDS.

Please make sure
To avoid the delay in publication of your paper, please make sure that the similarities in the revised version should be less than 15%, and to submit word file of the revised manuscript as a clean version without tracking changes using paper template including footer and header, journal template available in the following link: https://journal.uob.edu.bh/handle/123456789/12

Please make sure to upload the following files for revised paper submission:

1- Response and Action to Reviewer Comments as pdf file.
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3- Final manuscript without tracking changes as word .docx file.

The due date for submitting final version is two weeks from receiving this email.

The reviews are below or can be found at https://edas.info/showPaper.php?m=1570713269.

======= Second Round Review 1 =======

> *** Strengths/Weakness: What are the major reasons to accept/reject the paper? [Be brief.]

The paper proposed the FaceNet algorithm for feature extraction and explore several supervised machine learning methods (KNN, SVM, and Decision tree) appropriate for gender classification on video data. This study used 23,000 training data on each gender.

> *** Contribution/s & Detailed comments: What are the major issues addressed in the paper? Do you consider them important? Comment on the degree of novelty, creativity and technical depth in the paper. Please provide detailed comments that will be helpful to the TPC for assessing the paper, as well as feedback to the authors.

The results are promising the best accuracy of 95.75% with a processing speed of 0.059 seconds on each frame. Significant improvement from previous result 2 second per image.

The algorithm should be tested in incorrect data too, or partial face.

> *** Originality: New or Novel contribution
Accept (8)

> *** Significance of Topic: Relating to knowledge contribution
Weak Accept (6)

> *** Presentation: Clarity and Organisation of Content
Accept (8)

======= Second Round Review 2 =======

> *** Strengths/Weakness: What are the major reasons to accept/reject the paper? [Be brief.]

The manuscript was revised according to the recommended comments by the reviewers.

> *** Contribution/s & Detailed comments: What are the major issues addressed in the paper? Do you consider them important? Comment on the degree of novelty, creativity and technical depth in the paper. Please provide detailed comments that will be helpful to the TPC for assessing the paper, as well as feedback to the authors.

The study reported significant improvement in terms of execution speed, thus the proposed approach is suitable for video processing.

> *** Originality: New or Novel contribution
Accept (8)

> *** Significance of Topic: Relating to knowledge contribution
Accept (8)

> *** Presentation: Clarity and Organisation of Content
Accept (8)

Regards,
Dr. Wael El-Medany
Managing Editor

#1591 (1570713269): Gender Classification on Video Using FaceNet Algorithm and Supervised Machine Learning

#1591 (1570713269): *Gender Classification on Video Using FaceNet Algorithm and Supervised Machine Learning*

BibTeX

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Conference and *track*		**Inter Journal of Computing and Digital Systems** - *2210-142X- Published Papers*

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Authors		Faisal Dharma Adhinata	1406413			Institut Teknologi Telkom Purwokerto, Indonesia	faisal@ittelkom-pwt.ac.id	Indonesia		
		Apri Junaidi	1786868	not creator		Institut Teknologi Telkom Purwokerto, Indonesia	apri@ittelkom-pwt.ac.id	Indonesia		

Title		*Gender Classification on Video Using FaceNet Algorithm and Supervised Machine Learning*
Abstract		Gender classification using human face data becomes a trending topic for researchers in the field of image processing and computer vision. The human face is biometric information that can be used to differentiate gender using a computer-aided system. Previous research utilised a local feature algorithm for extracting features on the face. However, the processing speed for one image was more than 2 seconds, making it suitable for real-time processing using video data. Processing video data requires a fast feature extraction algorithm because video data collects sequential images (frames). Moreover, the gender classification system's success is also measured by its accuracy, consequently it is necessary to choose the correct classification method to divide the two classes of men and women. In this study, we propose the FaceNet algorithm for feature extraction and explore several supervised machine learning methods (K-NN, SVM, and Decision tree) appropriate for gender classification on video data. This study used 10,000 training data on each gender. From the experiment, combination of the FaceNet algorithm and K-NN method resulted in the best accuracy of 96% with a processing speed of 0.058 seconds on each frame.
Keywords	Only the chairs (ijcds-chairs@edas.info) can edit	Gender Classification; Real-time Processing; FaceNet Algorithm; Supervised Machine Learning
Topics		Artificial Intelligence & Robotics; Image Processing, Computer Vision, Pattern Recognition & Graphics
DOI	Only the chairs (ijcds-chairs@edas.info) can edit	
Status		Published
1- Cover Letter Uploading (word file only)		However, authors cannot upload: paper status

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	1	26,624	Mar 28, 2021 09:21 America/New_York

2- Review manuscript (full paper submission - pdf file only)	However, authors cannot upload: paper status

Document (show)	Pages	File size	Changed	Similarity rating
	10	826,902	Mar 28, 2021 09:24 America/New_York	14

3- Response and Action to Reviewer Comments (word file only)	However, authors cannot upload: paper status

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4- Revised manuscript without tracking changes (Word file only .docx)

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Document (show)	Pages	File size	Changed
	10	1,331,618	Jun 20, 2021 03:33 America/New_York

docx	abstractsdiffer	The abstract in the manuscript file differs from the paper meta data (99.03).	-
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	10	626,834	Nov 17, 2021 07:42 America/New_York

9- Latex Zip File of Revised manuscript

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		846,291	Nov 28, 2021 21:19 America/New_York

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	10	950,224	Nov 28, 2021 21:18 America/New_York

Personal notes

Our manuscript has previously been presented virtually at the International Conference of Information & Communication Technology 2021 (ICICTM 2021). The ICICTM committee provides recommendations for submission in the International Journal of Computing and Digital Systems. Thank you

You are the creator, an author and a reviewer for this paper. You have authored an accepted paper.

Reviews