

Article Information

Article Information

ID: 3842-JCS

Manuscript Category: Research Articles

Submitted On: Dec 3, 2013

Title

IMPROVED REAL-TIME FACE RECOGNITION BASED ON THREE LEVEL WAVELET DECOMPOSITION-PCA AND MAHALANOBIS DISTANCE (3WPCA-MD)

Abstract

The development of research in the field of real-time face recognition is a study that is being developed in the last decade. A facial recognition system is an application for automatically identifying or verifying a person from a digital image or a video frame from a video source. Recognition rate and computation time of real-time face recognition is one of the big challenges that must be developed. This paper proposes a model of face recognition using the method of feature extraction by combining three level wavelet decomposition and Principal Component Analysis (PCA) and using the method of Mahalanobis distance for the classification section (3WPCA-MD). A 3-level wavelet decomposition is used to decompose images by reducing the resolution used for those images. Using wavelet decomposition up to level 3 will produce an image with a very low resolution so as to reduce the value of the resulting computation time to be processed using PCA. Mahalanobis distance method is used to determine the degree of similarity among the features to produce a more optimal face recognition. Based on the results of experiments that have been done, they generated improved face recognition with high face recognition accuracy of up to 96 % in average and produced faster computation results of face recognition if compared to ordinary PCA method. The average computation speed value obtained using the method of 3WPCA-MD was 5-7 milli-second (ms) for each face recognition process.

My Co-Authors Name Email Institutional Information Edy Winarno edwinugm@gmail.com Computer Science and Electronics, Gadjah Mada University of Indonesia, 0

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Subject: Electronic version of Manuscript # 3842-JCS

From: On: Customer Support 2013-12-03

December 3, 2013

Subject: Electronic version of Manuscript # 3842-JCS

Dear Edy Winarno,

Due to some technical problems, your file was not uploaded successfully in our system, you are therefore, requested to please login to your profile and upload your article in MS word format.

Your quick response will help us to finalize your manuscript for the coming issue.

Regards

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2013-12-04

Dear Shakeel,

I have been sent a softcopy of my paper to thescipub in pdf format, and I'll wait your respons to check my paper.

Thanks and regards Edy Winarno

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From: On:

Customer Support 2013-12-04

Dear Edy Winarno,

Thank you for your mail.

We would appreciate if you could send the article in a DOC format.

Please feel free to contact us if you have any further queries or concerns.

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2013-12-04

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From:Me

2013-12-04

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Thanks and regards Edy Winarno

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From: On:
Customer Support 2013-12-05

Dear Edy Winarno,

Thank you for your mail.

You will receive a notification about the article within 2-3 weeks.

Please feel free to contact us if you have any further queries or concerns.

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Science Publications, Your Local Publisher thescipub.com

Subject: RE: Electronic version of Manuscript # 3842-JCS

From: On:

Me 2013-12-05

Dear Customer Support Science Pub,

Ok thank you for your confirmation and still waiting your notification, I hope the notification is not over than 2 weeks.

Thanks and regards Edy Winarno

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From: On:

Me 2013-12-12

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Thanks and regards Edy Winarno

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Customer Support 2013-12-13

Dear Edy Winarno,

Thanks file received.

Please feel free to contact us if you have any further queries or concerns.

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Subject: RE: Electronic version of Manuscript # 3842-JCS

From: On:

Me 2013-12-13

OK, thank you, Regards

Subject: Invoice 3842-JCS

From: On: 2014-01-07

Dear Editorial Support,

I have been sent my revised paper in 6 pages, and your invoice 3842-JCS mentioned 525 AUD, Would you like change the invoice becoming 450 AUD (only 6 pages)? After I receive your confirmation about the new invoice (450 AUD), I will pay as soon as possible,

Waiting your confirmation

Thanks and Regards, Edy Winarno

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Subject: RE: Invoice 3842-JCS

From: On:

Customer Support 2014-01-08

Dear Edy Winarno,

Thank you for your mail.

The minimum charges for an article under 8 pages is 525 AUD.

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Subject: RE: Invoice 3842-JCS

On:
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you read it and agree to publish that? gain? confirmation, I will pay your invoice
On:
2014-01-09
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defies of concerns.
defies of concerns.
defies of concerns.
On:
· [

Dear Editorial Support,

Thank you for your confirmation. When the dead line of payment to me? When my final file/paper will be published?

Waiting your confirmation

Thanks and Regards, Edy Winarno

Subject: RE: Invoice 3842-JCS

From: On:

Dear Edy Winarno,

Customer Support

Thank you for your mail.

There is no deadline however the sooner the better. The article will be published 1-2 weeks after the payment has been received.

2014-01-09

Please feel free to contact us if you have any further queries or concerns.

Customer Support Science Publications, Your Local Publisher thescipub.com

Subject: RE: Invoice 3842-JCS

From: On: 2014-01-09

Dear Customer Support,

Thank you for your info I will contact you again after I pay your invoice

Thanks and Regards,

Subject: Payment Reminder for Manuscript # 3842-JCS sent on January 12, 2014

From: On:

Customer Support 2014-01-12

January 12, 2014

Subject: Payment Reminder for Manuscript # 3842-JCS sent on January 12, 2014

Dear Edy Winarno,

May God bless you with good health.

Your above manuscript entitled "IMPROVED REAL-TIME FACE RECOGNITION BASED ON THREE LEVEL WAVELET DECOMPOSITION-PCA AND MAHALANOBIS DISTANCE (3WPCA-MD)" was under consideration for the current issue of Journal of Computer Science. But our record shows that so far we did not receive printing/processing cost of this manuscript.

To avoid further delay in publication, you are requested to send us printing cost as soon as possible.

In case, you have already paid printing/processing cost, please provide us complete detail of payment with method of payment for the updation of our database.

Please treat this message on TOP PRIORITY.

Regards

Shakeel Editorial Office Science Publications http://scipub.org

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Subject: RE: Payment Reminder for Manuscript # 3842-JCS sent on January 12, 2014

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	Thanks and regards Edy Winarno	
(Subject: Request to revise my paper	
	From:	On:
	Me	2014-01-06
	Dear JCS:	
	I received your notification about my paper just now, and the comment for paper can be accepted for publication". But, I want to change a few content of my paper. may I do to change it? If I have a chance, I will send you my final revised of my paper. Hopefully you will give me more information about it.	•
	Waiting your confirmation	
	Thanks and Regards. Edy Winarno	
	Download:	
(Subject: RE: Request to revise my paper	
	From:	On:
	Customer Support	2014-01-07
	Dear Edy Winarno,	
	Thank you for your mail.	

You can send the revised file and it will be published soon.

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Subject: RE: Request to revise my paper

From:	On:
Me	2014-01-07
Dear Customer Support	
Thank for your confirmation, I have been sent my last revised file, please check it and I hope it will be I Thank you verymuch for your quick response.	published soon.
Regards, Edy Winarno	

Subject: similarity index is relatively high

From:	On:
Me	2014-01-16

Dear Customer Support

Today I will try to revise my article as your note to reduce the percentage of similarity index. I will send my revised article after I finish it.

Hope you feel free to waiting my revised article.

Thanks and regards Edy Winarno

Subject: Your Submission Needs Revision# 3842-JCS entitled as IMPROVED REAL-TIME FACE RECOGNITION BASED ON TH

From:	On:
Customer Support	2014-01-15

January 15, 2014

Subject: Your Submission Needs Revision# 3842-JCS entitled as IMPROVED REAL-TIME FACE RECOGNITION BASED ON THREE LEVEL WAVELET DECOMPOSITION-PCA AND MAHALANOBIS DISTANCE (3WPCA-MD)

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Subject: RE: Your Submission Needs Revision# 3842-JCS entitled as IMPROVED REAL-TIME FACE RECOGNITION BASED O

From:	On:
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Dear Shakeel, Editorial Office Science Publications

Herewith I sent to you my payment of invoice number 3842-JCS, full amount, AUD 525.

Hope you will check it and give me information if you receieve it.

By the way, I read your email today about "Your Submission Needs Revision", actually I don't understand about that.

Should i revise my paper? because your previous email note that my paper was accepted and ready to be published after I pay the invoice.

But your email today note that my paper must be revised.

My questions are:

- 1. This is your note: "You have no need to resend your un-composed manuscript again" what is the meaning of that? should I revise and resend?
- 2. But if I no need to revise and no need to resend my paper so what should I do? Or I only wait my paper to be published? (because i have been pay the invoice)

Waiting your confirmation soon

Thansk and regards Edy Winarno

Subject: RE: Your Submission Needs Revision# 3842-JCS entitled as IMPROVED REAL-TIME FACE RECOGNITION BASED O

From:	On:
Customer Support	2014-01-15
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Thank you for your mail.	
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Waiting your confirmation soon

Thansk and regards Edy Winarno

Subject: RE: Your Submission Needs Revision# 3842-JCS entitled as IMPROVED REAL-TIME FACE RECOGNITION BASED O

From:	On:
Me	2014-01-17

Dear Shakeel, Editorial Office Science Publications

Herewith I send my final revised article today

I have been completed my revised article like reviewers suggest to me:

- 1. I change and use several new cited journal in my final article
- 2. I try to reduce the article's similarity index by changing several words in my article

Please check my revised article and give me confirmation soon I have been sent my printing cost of invoice 3842-JCS AUD 525 full amount

Thanks and regards Edy Winarno

Customer Support

Subject: RE: Your Submission Needs Revision# 3842-JCS entitled as IMPROVED REAL-TIME FACE RECOGNITION BASED O

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	Regards		
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	please give me much more information.		

thanks and regard Edy Winarno

Importance of the topics/issues to the field of research
Important
Quality of writing and other presentations (figures, tables, exhibits)
Good
Conceptual rigor (clarity of objectives, treatment of relevant literature, logical reasoning)
Good
Methodological rigor (research design, sampling, data collection/analyses as relevant to qualitative/quantitative data)skip if NA
Good
General discussion and conclusions (implications, limitations, future research)
Good
Paper's contribution to research in its current form
Modest
Contribution if revised according to my accompanying comments
Modest
Recommendation
Accept unconditionally
Comments
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