

KORESPONDENSI UJME 2020

Judul: Effect of Flow Separation Control with Suction Velocity Variation: Study of Flow Characteristics, Pressure Coefficient, and Drag Coefficient

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● Revision after Peer Review - 2nd Review Report (ID:15114898)-Effect of Flow Separation Control with Suction Velocity Variation: Study of Flow Characteristics, Pressure Coefficient, and Drag Coefficient

Rustan Tara... /UJME ☆



● **Anthony Robinson** <revision.hrpub@gmail.com>
To: rustan_tarakka@yahoo.com



Tue, Mar 24, 2020 at 2:34 PM ☆

Dear Rustan Tarakka,

Thank you for your interest in publishing your work in HRPUB.

Herewith attached is another review report. Usually, we invite 2 peer reviewers for one manuscript. This is a review report from another reviewer. Compared with the first review report, the overlapped parts can be ignored.

Please confirm all comments from the two reviewers have been effected in your paper.

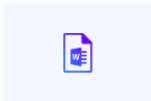
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We would be grateful if you could address the comments of the reviewers in a revised manuscript and answer all questions raised by reviewers in a cover letter.

Please acknowledge receipt of this email.

Best Regards

Anthony Robinson
Editorial Assistant
revision.hrpub@gmail.com
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<http://www.hrpub.org>



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Peer Review Report

Notes

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Manuscript Information	
Manuscript ID:	15114898
Manuscript Title:	Effect of Flow Separation Control with Suction Velocity Variation: Study of Flow Characteristics, Pressure Coefficient, and Drag Coefficient
Evaluation Report	
General Comments	This paper investigates the effect of suction active control on flow characteristics, pressure distribution and aerodynamic drag on vehicle models with suction velocity variations by numerical computational approach. This study is interesting and meaningful. But there are some suggestions/modifications to further improve the quality of the manuscript.
Advantage & Disadvantage	To clarify the advantage of this study, the paper should be modified to include a more detailed explanation and rationale for the model used and conclusions drawn.
How to improve	There are some suggestions/modifications to further improve the quality of the manuscript. 1) In Figs. 7-11, it is necessary to define the velocity <u>pathline</u> and explain how to obtain it. The numerical analysis method used to obtain velocity <u>pathline</u> should be explained. 2) In Table 1, $U_w/U_{scl} \gg U_{scl}/U_w$ 3) It is necessary to explain why the minimum pressure coefficient does not appear in the center in the z direction on the vehicle model without active control. (Table 2)
Please rate the following: (1 = Excellent) (2 = Good) (3 = Fair) (4 = Poor)	
Originality:	3
Contribution to the Field:	3
Technical Quality:	3
Clarity of Presentation :	3
Depth of Research:	3
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<input type="checkbox"/>	Reject

Return Date: _____

On Sun, Apr 5, 2020 at 6:17 AM Rustan Tarakka <rustan_tarakka@yahoo.com> wrote:

Dear Editors and Reviewers of UJME Journal

We are really sorry that we cannot immediately reply the response report of our paper UJME-15114898, titled Effect of Flow Separation Control with Suction Velocity Variation: Study of Flow Characteristics, Pressure Coefficient, and Drag Coefficient. Herewith, we send the revised version of our paper along with some explanation regarding reviewers' comment. We have added some new content as well as the revision in red-colored text.

We do hope that our work can be published in your esteemed journal.
Thank you very much for your kind understanding,
Sincerely yours,

Dr. Rustan Tarakka
Hasanuddin University

Dari: "Anthony Robinson" <revision.hrpub@gmail.com>
Kepada: "Rustan Tarakka" <rustan_tarakka@yahoo.com>
Cc:

Terkirim: Rab, 8 Apr 2020 pada 0:18

Judul: Re: Report to Reviewers' Comments

Dear Dr. Rustan Tarakka,

Thank you for your kind email.

We have received your revised paper (ID:15114898) and the cover letter. If further revision is not required, you will expect an Acceptance Letter in a week.

Best Regards

Anthony Robinson
Editorial Assistant
revision.hrpub@gmail.com
Horizon Research Publishing, USA
<http://www.hrpub.org>

Dari: "Anthony Robinson" <revision.hrpub@gmail.com>
Kepada: "Rustan Tarakka" <rustan_tarakka@yahoo.com>
Cc:
Ter kirim: Min, 12 Apr 2020 pada 7:30
Judul: Acceptance Letter & Advice of Payment(15114898)
Dear Dr. Rustan Tarakka ,

Your paper has been accepted for publication. Herewith attached is the Acceptance Letter.

The publication fee is \$290. Payment can be made by Wire Transfer, PayPal and Credit Card. Payment instructions are below.

(1) Wire Transfer Instructions

Beneficiary name: HORIZON RESEARCH PUBLISHING CO., LTD
Beneficiary account number: 33113742
Banking Swift code for international wires: CATHUS6L
Beneficiary bank name: Cathay Bank
Beneficiary bank address: 4128 Temple City Blvd, Rosemead, CA 91770 USA
Note: Please add \$35.00 for wire transfer fee.

The bank charge would be deducted prior to the receipt of the payment. To avoid a shortfall on the net amount received and request for repayment, authors shall pay the commission charge while making the payment.

(2) PayPal Instructions

Our PayPal recipient email address is payment.hrpub@gmail.com. To avoid confusion, please add special instructions during the transaction process.

The online payment processes via PayPal are divided into 3 steps:

Step 1: login to the Online Manuscript Tracking System
(<http://www.hrpub.org/submission/login.php>)

Step 2: Select the option "H_Economies: \$290 USD" and click on "buy now" to proceed;

Step 3: Login to your PayPal account to complete the purchase

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The online payment processes via credit card are divided into 3 steps:

Step 1: log into the Online Manuscript Tracking System;
(<http://www.hrpub.org/submission/login.php>)

Step 2: Select the option "H_Economies: \$290 USD" and click on "buy now" to proceed;

Step 3: Pay with debit or credit card. Fill in all required information to complete your purchase

Please add special instructions during the transaction process.

Once the payment is finished, please inform us or send the payment voucher to us.

Look forward to hearing from you soon.



Acceptance Letter

Dear Rustan Tarakka,

Congratulations! As a result of the reviews and revisions, we are pleased to inform you that your following paper has been accepted for publication.

Paper Title: Effect of Flow Separation Control with Suction Velocity Variation: Study of Flow Characteristics, Pressure Coefficient, and Drag Coefficient

Paper ID: 15114898

Contributor (s): Wawan Rauf, Rustan Tarakka, Jalaluddin, Muhammad Ihsan

It is scheduled for publication on Universal Journal of Mechanical Engineering, Vol 8, No 3.

The publication fee \$ 290 should be paid within 2 weeks.

Should you have any questions, please feel free to let us know by quoting your **Paper ID** in any future inquiries.

Best wishes,

John Thompson

editorialboard@hrpub.org

Journal Manager

Horizon Research Publishing Corp.

<http://www.hrpub.org>





Rustan Tarakka <rustan_tarakka@yahoo.com>
To: Anthony Robinson

Mon, Apr 20, 2020 at 9:05 AM ☆

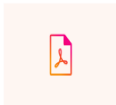
Dear Editors of UJME Journal

We have paid the publication fee for paper UJME-15114898, titled 'Effect of Flow Separation Control with Suction Velocity Variation: Study of Flow Characteristics, Pressure Coefficient, and Drag Coefficient' authored by Wawan Rauf, Rustan Tarakka, Jalaluddin, and Muhammad Ihsan

Herewith, we send the receipt from the payment system Receipt No:1048-3854-6019-1395 amounted USD298.7. The payment is managed via VISA credit card account of Mr. Muhammad Ihsan (one of the authors), I hope this has fulfilled our obligations.

Thank you very much for your kind assistance,
Sincerely yours,

Dr. Rustan Tarakka
Hasanuddin University



UJME-15114... .pdf
70.9kB



Anthony Robinson <revision.hrpub@gmail.com>
To: Rustan Tarakka

Mon, Apr 20, 2020 at 11

Dear Dr. Rustan Tarakka,

Thank you for your email.
We have received your payment.

Best Regards

Anthony Robinson
Editorial Assistant
revision.hrpub@gmail.com
Horizon Research Publishing, USA
<http://www.hrpub.org>

On Wed, Apr 22, 2020 at 4:12 PM Rustan Tarakka <rustan_tarakka@yahoo.com> wrote:

Dear Editors of UJME Journal

We hereby sent the revised version of our paper UJME-15114898, titled 'Effect of Flow Separation Control with Suction Velocity Variation: Study of Flow Characteristics, Pressure Coefficient, and Drag Coefficient' authored by Wawan Rauf, Rustan Tarakka, Jalaluddin, and Muhammad Ihsan
All revisions are highlighted in bright yellow.

The revisions are

1. Full affiliation of last author has been completed (Sekolah Tinggi Teknik Baramuli is the name of the higher institution)
2. Figures 5 & 6 are attached (along with figures 3 & 4 after improvements)
3. Figure 12, 13, 14, 15 and 16 have been cited in the text (highlighted in bright yellow) Please check and revise

I hope this could satisfy the journal's standards.

Thank you very much for your kind assistance,
Sincerely yours,

Dr. Rustan Tarakka
Hasanuddin University

Dari: "Anthony Robinson" <revision.hrpub@gmail.com>
Kepada: "Rustan Tarakka" <rustan_tarakka@yahoo.com>
Cc:
Terkirim: Sab, 25 Apr 2020 pada 10:04
Judul: Re: Re : Urgent!!!-Proof Reading before Publication (ID:1511)
Dear Dr. Rustan Tarakka,

Thank you for your email.
We have received the final version with corrections.
Before publication, there is a piece of news we would like to inform you. Currently "Universal Journal of Mechanical Engineering" is under the re-evaluation of Scopus. Papers published in 2020 may not be included in Scopus.

Best Regards

Anthony Robinson
Editorial Assistant
revision.hrpub@gmail.com
Horizon Research Publishing, USA
<http://www.hrpub.org>

• Notification of Final Publication 2

Rustan Tara... /UJME ☆



• **editor@hrpub.org**
To: rustan_tarakka@yahoo.com

Wed, May 6, 2020 at 1:49 AM ☆

Dear Rustan Tarakka,

We are pleased to inform you that your paper has been published, please refer to the following information for detail:

PAPER ID: 15114898
PAPER TITLE: Effect of Flow Separation Control with Suction Velocity Variation: Study of Flow Characteristics, Pressure Coefficient, and Drag Coefficient
ONLINE INFO: http://www.hrpub.org/journals/article_info.php?aid=9187
DOWNLOADABLE FULL-TEXT: <http://www.hrpub.org/download/20200430/UJME2-15114898.pdf>

Please feel free to contact us if you have any questions.

Best regards,

John Thompson
Journal Manager
editor@hrpub.org
Horizon Research Publishing, USA
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Journal Title

Universal Journal of Mechanical Engineering

Manuscript Title

Effect of Flow Separation Control with Suction Velocity Variation: Study of Flow Characteristics, Pressure Coefficient, and Drag Coefficient

Abstract

Flow separation is expected to have the effect of increasing aerodynamic drag due to decreased pressure distribution at the rear of the vehicle. The faster the flow separation occurs, the lower the pressure distribution in the area, thereby reduce vehicle performance. Therefore, flow modification is needed with expected effects on the separation delay and the reduction in wake and vortex formation. This modification can be done through the application of suction active control in the separation area. The research is intended to analyze the effect of suction active control on flow characteristics, pressure distribution and aerodynamic drag on vehicle models with suction velocity variations. The test model used is an Ahmed model modified by changing the orientation of the flow. The study used a numerical computational approach with a standard k-epsilon turbulence model at 19.4 m/s upstream velocity. Results revealed that the use of flow active control was able to reduce wake and vortex formation through separation delay and to increase the minimum pressure coefficient by 73% on the model with U_{sc2} suction velocity of 0.5 m/s, gaining the highest drag coefficient reduction of 10.897% in the same model.

Keywords

Active control, CFD, Drag coefficient, Flow characteristics, Flow separation, Pressure coefficient

Copyright

Yes

History Records

Date	Latest Status	Editor Comment
2020-04-19	Accepted for Publication	Your manuscript has been accepted for publication. Please complete the payment following the Payment Instructions sent by Anthony Robinson (revision.hrpub@gmail.com) within 2 weeks.
2020-04-09	Ready for Acceptance	Your manuscript will be accepted for publication. Please complete the payment following the Payment Instructions sent by Anthony Robinson (revision.hrpub@gmail.com) within 2 weeks.
2020-03-30	Revision Requested	The review report of your paper has been sent to your mailbox. If you fail to receive it, please contact Anthony Robinson (revision.hrpub@gmail.com). Or you can download the report by clicking the "Review Report(s)" at the right column. Please send the revised paper to Anthony Robinson.
2019-12-30	Under Peer Review	Your manuscript meets the general criteria for the journal and has been sent out for peer review. Usually, it takes 50 days or so to complete the peer review. The report will be sent to you by Anthony Robinson (revision.hrpub@gmail.com). Report is also downloadable by clicking the "Review Report(s)" at the right column.
2019-12-29	Initial Screening	Your manuscript has been assigned to editors for initial screening. The outcome of initial screening will be sent to you by Mark Robinson (preview.hrpub@gmail.com) within 5 business days.
2019-12-28	Submit Success	

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