BUKTI KORESPONDENSI
Corresponding Author: Stenly Tangkuman

Judul : **Machine Condition Prognostics Based On Grey Model and Survival Probability**
Jurnal : **International Journal of Fluid Machinery and Systems**

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● [IJFMS] Your Submission   Yahoo/Korea ☆

KE   **International Journal of Fluid Machinery and Systems** <email@kfma.or.kr>   🖨   Rab, 16 Mei 2012 jam 17.14 ☆
Kepada: stenlytangkuman@yahoo.com

Ref.: Ms. No. O12005J
Machine Condition Prognostics Based On Grey Model and Survival Probability
International Journal of Fluid Machinery and Systems

Dear Mr. Tangkuman,

Reviewers have now commented on your paper. You will see that they are advising that you revise your manuscript. If you are prepared to undertake the work required, I would be pleased to reconsider my decision.

For your guidance, reviewers' comments are appended below.

If you decide to revise the work, please submit a list of changes or a rebuttal against each point which is being raised when you submit the revised manuscript.

Your revision is due by 2012-08-14 00:00:00.

To submit a revision, go to http://ijfms.edmgr.com/ and log in as an Author. You will see a menu item call Submission Needing Revision. You will find your submission record there.

Yours sincerely

International Journal of Fluid Machinery and Systems

Reviewers' comments:

Reviewer comments of PDF file is attached.

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RESPONSES TO REVIEWERS' COMMENTS

Manuscript Number: O12005J
Full Title: Machine Condition Prognostics Based on Grey Model and Survival Probability

The manuscript has been revised significantly with serious consideration to all comments of reviewers. The specific responses for each comment are as follows

1. Equation (7) : **aX$^{(1)}$** [capital letter] should be **ax$^{(1)}$** [small letter].
   ✓ We have corrected it. Thanks for the comment.

2. Equation (12) should be after equation (8).
   ✓ We have corrected it. Thanks for the comment.

3. "Step 4: Substituting A in Eq. (5) with Eq. (11), the approximate equation becomes the following." ⇒ "Step 4: Substituting A in Eq. (7) with Eq. (11), the approximate equation becomes the following."
   ✓ We have corrected it based on your comment. Thank you very much.

4. "After the completion of an inverse accumulated generating operation on Eq. (12)," ⇒ "After the completion of an inverse accumulated generating operation on Eq. (6),"
   ✓ We have corrected it based on your comment. Thank you very much.

5. "2.2.2 Modification of GM(1,1)" is difficult to understand what authors do to improve the accuracy of the grey model.
   5.1 1st step increase the number of data from n to m+n. Are m data, [x(0)(n+1), x(0)(n+2), ·····, x(0)(n+m)], predicted by grey model or obtained by a condition monitoring? If the data are obtained by a condition monitoring, this does not seem to propose any modified method. Author should clarify which ways author proposes here.

   ✓ Thanks for the comment. In this procedure, the data are not obtained by a condition monitoring, but it are obtained by modified grey model. We have corrected the sentences and added some explanations, so now this section can be understood easily. The current version of this section is as follows

   Adding the values of sequence in Eq. (15) with *m* value. *m* is the number of modified prediction value, and it is an arbitrary value. In this work, *m* of 5 to m of 11 was employed as presented in Table 2. So, Eq. (15) for *k = n* becomes

   $$\widehat{x}^{(1)}(n+i) = (x^{(0)}(1) - b/a)\, e^{-a(n+i-1)} + b/a \quad i = 1,2,...,m$$

5.2 2nd step is not clear either. "Eventually, the final result of a predicted value can (be) determined by taking the mean value of m predicted values." This sentence is difficult to understand. I think what authors want to say is as follows. x(0)(n+1) is obtained by taking the mean value of calculated x(0)(n+1), x(0)(n+2), ·····, x(0)(n+m) by the gray model, i.e. ,x(0)(n+1)=(x(0)(n+1)+ x(0)(n+2),+··+ x(0)(n+m))/m. (At this time data used in the grey model is increased by m.). The sentence is not enough, I recommend using equations. Equations are very helpful to make what authors say clear.

✓ Yes, you are right. Equations are very helpful. So, we have corrected and added equations in this section as follows

$\hat{x}^{(0)}(n+i) = \hat{x}^{(1)}(n+i) - \hat{x}^{(1)}(n+i\text{ -}1)$ $i = 1,2,...,m$

The predicted value of $x^{(0)}(n+1) = (1/m) \times [\hat{x}^{(0)}(n+1) + \hat{x}^{(0)}(n+2) + ... + \hat{x}^{(0)}(n+m)]$

6. "Fig.5c shows both actual and prediction of survival probability from time of 200 to 308". However Fig. 5 seems to show the prediction of survival probability starts after the time of 291. I think the prediction of survival probability starts when the survival probability reaches the incipient threshold of 0.9. If so, authors should correct the sentence and also add some explanations.

✓ Yes, you are right. We have corrected it based on your comment. So, the correct sentences are *"Fig. 5c shows the survival probability from time of 200 to 308. Especially, from time of 292 to 308, it shows both actual and prediction values"*. Thank you very much.

7. "Finally, the accuracy of the modified grey model is very satisfactory, because *the modification makes* the modified model can anticipate the sudden decrease of survival probability." ⇒ "Finally, the accuracy of the modified grey model is very satisfactory, because the modified model can anticipate the sudden decrease of survival probability."

✓ We have corrected it. Thanks for the comment.

Once again, we gratefully acknowledge your helpful comments and suggestions.

Best regards,

Authors

AWAL   MAIL   BERITA   KEUANGAN   OLAHRAGA   SELEB   LIFESTYLE   LAINNYA...   y!mail   Tingkatkan Sekarang

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○ [IJFMS] Submission Confirmation for O12005JR1   Yahoo/Korea ☆

(KE) ○ **International Journal of Fluid Machinery and Systems** <email@kfma.or.kr>   🖨 Sen, 2 Jul 2012 jam 13.24 ☆
Kepada: stenlytangkuman@yahoo.com

Ref.: Ms. No. O12005JR1
Machine Condition Prognostics Based On Grey Model and Survival Probability

Dear Mr. Tangkuman,

International Journal of Fluid Machinery and Systems has received your revised submission.

You may check the status of your manuscript by logging onto Editorial Manager at (http://ijfms.edmgr.com/).

Kind regards,

International Journal of Fluid Machinery and Systems

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KE ● **Lee Ji-eun** <email@kfma.or.kr>   🖨 Jum, 17 Agu 2012 jam 14.21 ☆
     Kepada: stenlytangkuman@yahoo.com

Dear Mr. Stenly Tangkuman,

Thank you for the submission of your paper.

I am sorry about that, I have not received the review results about your paper(O12005J) yet.
The review process of your paper is not finished.
I will contact the reviewers, also help publish soon.

We will inform you about the next process, when the review process is over.
I would appreciate if you wait a little bit longer.

If you have any questions, please don't hesitate to contact me.

Thank you.

Sincerely,

Ms. Ji-eun Lee
Editorial Coordinator
International Journal of Fluid Machinery and Systems

From: Stenly Tangkuman [mailto:stenlytangkuman@yahoo.com]
Sent: Friday, August 17, 2012 11:37 AM
To: kykim@inha.ac.kr
Subject: the status of our revised manuscript

Dear Editors-in-Chief, KIM, Kwang-Yong,

We have submitted the revised manuscript to International Journal of Fluid Machinery and Systems on July 2, 2012

The title is " Machine Condition Prognostics Based On Grey Model and Survival Probability".

Manuscript number is O12005J.

Please inform us about the status of the revised manuscript.

Thank you very much.

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○ [IJFMS] Your Submission O12005JR1   Yahoo/Korea ☆

KE   ○ International Journal of Fluid Machinery and Systems <email@kfma.or.kr>   🖨   Sen, 27 Agu 2012 jam 11.29 ☆
    Kepada: stenlytangkuman@yahoo.com

Ref.: Ms. No. O12005JR1
Machine Condition Prognostics Based On Grey Model and Survival Probability
International Journal of Fluid Machinery and Systems

Dear Mr. Tangkuman,

I am pleased to tell you that your work has now been accepted for publication in International Journal of Fluid Machinery and Systems.

It was accepted on 2012-08-26 23:29:31

Comments from the Editor and Reviewers can be found below.

Thank you for submitting your work to this journal.

With kind regards

International Journal of Fluid Machinery and Systems

Comments from the Editors and Reviewers:

Reviewer #1: The papaer was well corrected. Now it is easier to understand what authors say.
I noticed that there is a part where is need to be corrected, but they are very minor.
pp. 4 "The prognostics system must be able predict the future---" should be "The prognostics system must be able to predict the future---"

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● The next process for publication_O12005JR1 4   Yahoo/Korea ☆

Stenly Tangkuman <stenlytangkuman@yahoo.com>   🖨 Sel, 28 Agu 2012 jam 09.15 ☆
Kepada: email@kfma.or.kr

Dear Editors of IJFMS,

Thank you very much for accepting our paper for publication in IJFMS.
So, please inform us the next process.
Thank you.

Best Regards,

Stenly Tangkuman
Bo-Suk Yang
Seon-Jin Kim

From: International Journal of Fluid Machinery and Systems <email@kfma.or.kr>
To: Stenly Tangkuman <stenlytangkuman@yahoo.com>
Sent: Monday, August 27, 2012 12:29 PM
Subject: [IJFMS] Your Submission O12005JR1

Ref.: Ms. No. O12005JR1
Machine Condition Prognostics Based On Grey Model and Survival Probability
International Journal of Fluid Machinery and Systems

Dear Mr. Tangkuman,

I am pleased to tell you that your work has now been accepted for publication in International Journal of Fluid
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Thank you for submitting your work to this journal.

With kind regards

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Lee Ji-eun <email@kfma.or.kr>
Kepada: stenlytangkuman@yahoo.com

🖶 🔗 Sel, 28 Agu 2012 jam 09.48 ☆

Dear Dr Stenly Tangkuman,

Thank you for your cooperation with IJFMS.

Please prepare the final manuscript (both of MS Word and PDF) with this
attached template of IJFMS
and send to editorial office (kfma2@hanmail.net), as soon as possible.

These are review informations.

Vol. 5, No. 4, October-December 2012
Received March 26 2012
Revised July 2 2012
Accepted for publication August 26 2012
Review conducted by Prof. Hideaki Tamaki. (Paper number O12005J)
Corresponding author: John Smith, Professor, kykim@inha.ac.kr (←It needs
modification by your informations.)

I will look forward hearing from you soon.

Best Regards,
Ji-eun Lee
Editorial Coordinator
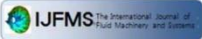IJFMS

----- Original Message -----
From: Stenly Tangkuman <stenlytangkuman@yahoo.com>
To: International Journal of Fluid Machinery and Systems <email@kfma.or.kr>
Sent: 12-08-28 10:15:04
Subject: The next process for publication_O12005JR1

Dear Editors of IJFMS,

Thank you very much for accepting our paper for publication in IJFMS.
So, please inform us the next process.
Thank you.

Best Regards,

Stenly Tangkuman
Bo-Suk Yang
Seon-Jin Kim

Invoice

No. 0093

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Address:	(135-703) Room No.12, KOFST New Bldg., 635-4 Yoeksam 1-dong, Gangnam-gu, Seoul, Korea	Address:	Department of Mechanical Engineering, Sam Ratulangi University, Kampus Unsrat, Bahu, Manado 95115, Indonesia

Amount: USD$ 200

Date: October 15, 2012

Description: IJFMS Publication Fee (Paper Number: O12005J) Vol. 5, No. 4, October-December 2012, pp. 143-151

We request you to pay USD$ 200 for the publication fee.

Ji-Eun Lee
Editorial Coordinator
International Journal of Fluid Machinery and Systems

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○ [IJFMS] Confirmation of your paper (O12005J) 4   Yahoo/Korea ☆

Ⓚ ○ 유체기계공업학회 <kfma2@daum.net>   🖨 🔗 Sen, 15 Okt 2012 jam 10.05 ☆
Kepada: stenly@pknu.ac.kr, stenlytangkuman@yahoo.com

Dear Dr. Stenly Tangkuman,
Thank you for submitting your work to the International Journal of Fluid Machinery and Systems (IJFMS).

Your paper with the paper number O12005J has already been uploaded.
You can check it on http:// www.IJFMS.org .
I would appreciate if you remit the publication fee to the following bank account.

Publication fee: USD $200.
Account number: 186-00019-436-01
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Name of the bank: Citibank, Science & Technology
Name of the account owner: Korea Fluid Machinery Association

Thank you for your cooperation with IJFMS.

Sincerely,
Ms. Ji-eun Lee
Editorial Coordinator
International Journal of Fluid Machinery and Systems

유체기계공업학회
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