
IEEE Transactions on Industrial Informatics Manuscript No. TII-19-3895 : Reviewer Invitation

1 message

IEEE Transactions on Industrial Informatics <onbehalf@manuscriptcentral.com>

Mon, Sep 9, 2019 at 8:22 PM

Reply-To: piotr.gaj@polsl.pl

To: hendriko@pcr.ac.id

09-Sep-2019

Dear Dr. Handriko,

The Editorial Board of the IEEE Transactions on Industrial Informatics would be most grateful for your expert assistance in reviewing the revision of manuscript No. TII-19-3895 entitled "Analysis and discussion on influence from considering cutter dynamics in cutting force coefficient identification" which has been submitted, as a Regular Paper, for possible publication.

The Abstract of the Manuscript No. TII-19-3895 follows the text of this message.

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I will very much appreciate your prompt response.

Best Regards,
Dr. Piotr Gaj

Dr. Piotr Gaj, Associate Editor
IEEE Transactions on Industrial Informatics
piotr.gaj@polsl.pl

Abstract ---

One source of fundamental data differences is the heterogenous machining systems where the structural differences affect the monitored data. This paper considered dynamic properties of the cutter-holder-spindle system and proposed an identification method considering cutter vibration. To evaluate the detailed effects of vibration, the identification method is designed to parallelly identify cutting force coefficients with and without cutter vibration, respectively. In the experiment and discussion, the identified coefficients are compared statistically to figure out the influence of dynamic properties. The distribution of identified CFCs is confirmed to be normal while the involvement of vibration does not change distribution mode. The analysis results also indicate that including of the dynamics will not significantly change the average/standard deviation ratio with their values being obviously changed. Both the distribution mode and the dynamics differences effects have not been previously reported.

IEEE Transactions on Industrial Informatics - Reviewer Agreed - Manuscript No. TII-19-3895

1 message

IEEE Transactions on Industrial Informatics <onbehalf@manuscriptcentral.com>

Tue, Sep 10, 2019 at 3:01 PM

Reply-To: piotr.gaj@polsl.pl

To: hendriko@pcr.ac.id

Silesian University of Technology, Gliwice, Poland, 10-Sep-2019

Dear Dr. Hendriko Handriko,

Thank you for agreeing to review the manuscript No. TII-19-3895, a Regular Paper entitled "Analysis and discussion on influence from considering cutter dynamics in cutting force coefficient identification". It's available to you through the Reviewer Center in the IEEE Transactions on Industrial Informatics S1M website.

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We are aware of the burden we are placing on you by asking you to provide this review. However, in order to publish papers of the highest quality, we must depend upon experts such as you. Your help in this important task is greatly appreciated. On behalf of the Industrial Electronics Society I will appreciate your fast cooperation.

Sincerely,

Dr. Piotr Gaj
Associate Editor, IEEE Transactions on Industrial Informatics
<http://tii.ieee-ies.org/>
piotr.gaj@polsl.pl

This paper considered dynamic properties of the cutter-holder-spindle system and proposed an identification method considering cutter vibration. The construction of the introduction has been well arranged. The gap with previous studies and the goals of this study have been comprehensively discussed. In the following areas, improvements need to be made to avoid potentially confusions. Suggested changes are listed as follows:

1. What is RUCT? What is the different with DUCT? please provide simple explanation for better understanding.
2. What is the purpose of equation simplification in Eq.7? Do the rest equation developed by using simple equation (Eq.7) or complete equation (Eq.5)? Simplification tend to make the method cannot be generally used.
3. Did you measure the amplitude of spindle vibration for various feedrate? Do they produce significant result for different feedrate? how do the authors address this issue into the model?
4. The authors mention in in page 7 line 2 "One possible explanation is the effect from the machined surface produced by previous teeth". What is the meaning of this statement? Do the authors have supporting data or references to support this statement? I believe the authors have a lot of data during cutting force validation. Do they show the same trend?

Thank you for submitting your review of Manuscript ID TII-19-3895 for the IEEE Transactions on Industrial Informatics

1 message

IEEE Transactions on Industrial Informatics <onbehalf@manuscriptcentral.com>

Sun, Sep 22, 2019 at 9:14 AM

Reply-To: piotr.gaj@polsl.pl

To: hendriko@pcr.ac.id

21-Sep-2019

Dear Dr. Handriko:

Thank you for reviewing manuscript # TII-19-3895 entitled "Analysis and discussion on influence from considering cutter dynamics in cutting force coefficient identification" for the IEEE Transactions on Industrial Informatics.

On behalf of the Editors of the IEEE Transactions on Industrial Informatics, we appreciate the voluntary contribution that each reviewer gives to the Journal. We thank you for your participation in the online review process and hope that we may call upon you again to review future manuscripts.

Sincerely,
Dr. Piotr Gaj
Associate Editor, IEEE Transactions on Industrial Informatics
piotr.gaj@polsl.pl

IEEE Transactions on Industrial Informatics wants to give you recognition for your review of Analysis and discussion on influence from considering cutter dynamics in cutting force coefficient identification on Publons

1 message

Institute of Electrical and Electronics Engineers Inc. (IEEE) <partnerships@publons.com>
Reply-To: Team Publons <info@publons.com>
To: hendriko@pcr.ac.id

Sun, Sep 22, 2019 at 9:14 AM



Dear Hendriko Handriko,

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