Gmail hendriko hendriko <h3ndriko@gmail.com>

Manuscript BMSE-D-20-00748 for review

1 pesan

Journal of the Brazilian Society of Mechanical Sciences and Engineering (BMSE) <em@editorialmanager.com> 16 April 2020 19.44
Balas Ke: "Journal of the Brazilian Society of Mechanical Sciences and Engineering (BMSE)" <nandhini.prakash@springer.com>
Kepada: hendriko hendriko <h3ndriko@gmail.com>

Dear Dr hendriko,

In view of your expertise, we would be very grateful if you could review a manuscript, that should be of some interest to you, to help us evaluate its suitability for publication in Journal of the Brazilian Society of Mechanical Sciences and Engineering.

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Manuscript Number: BMSE-D-20-00748

Title: Neuro-fuzzy based predictive model for cutting force in CNC turning process of Al-Si-Cu cast alloy using different additives

Abstract: This study investigated the predicted cutting force model of a turning operation for Al-Si-Cu cast alloy modified with additives based on Adaptive Network-based Fuzzy Inference System (ANFIS) and Artificial Neural Network (ANN) approaches. Cutting speed, feed rate and Silicon (Si) spacing were considered as the input parameters. The experiments were carried out under oblique dry CNC turning using physical vapor deposition (PVD) coated inserts. Each experiment was repeated three times and a new cutting insert used to ensure the accuracy of the cutting force. It was found that feed rate and cutting speed were the main factors influencing cutting force. Moreover, the addition of strontium (Sr) and antimony (Sb) increased cutting force during the turning operation. However, a Bismuth (Bi)-containing alloy generated the lowest cutting force. The prediction results showed that the both artificial intelligence methods successfully predicted the cutting force value in terms of cutting speed, feed rate and Si spacing. A mathematical model was proposed to describe the cutting force changes while machining of Al-Si-Cu cast alloy.

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Thank you very much.

With kind regards,
Adriano Fagali de Souza
Journal of the Brazilian Society of Mechanical Sciences and Engineering

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Gmail hendriko hendriko <h3ndriko@gmail.com>

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Journal of the Brazilian Society of Mechanical Sciences and Engineering (BMSE) <em@editorialmanager.com> 25 April 2020 10.08
Balas Ke: "Journal of the Brazilian Society of Mechanical Sciences and Engineering (BMSE)" <nandhini.prakash@springer.com>
Kepada: hendriko hendriko <h3ndriko@gmail.com>

Dear Dr hendriko,

Thank you very much for your review of manuscript
BMSE-D-20-00748, "Neuro-fuzzy based predictive model for cutting force in CNC turning process of Al-Si-Cu cast alloy using different additives".
We greatly appreciate your assistance.

With kind regards,
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hendriko hendriko <hendriko@pcr.ac.id>

Manuscript BMSE-D-21-00852 for review

1 message

Journal of the Brazilian Society of Mechanical Sciences and Engineering (BMSE) <em@editorialmanager.com> Sat, May 22, 2021 at 12:08 AM
Reply-To: "Journal of the Brazilian Society of Mechanical Sciences and Engineering (BMSE)" <nandhini.prakash@springer.com>
To: hendriko hendriko <hendriko@pcr.ac.id>

Dear Dr hendriko,

In view of your expertise, we would be very grateful if you could review a manuscript, that should be of some interest to you, to help us evaluate its suitability for publication in Journal of the Brazilian Society of Mechanical Sciences and Engineering.

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Manuscript Number: BMSE-D-21-00852

Title: Accuracy Enhancement in 5-Axis Milling Operations of Blisks

Abstract: To enhance accuracy of machined parts, the virtual machining systems are applied to the machining operations. One of the key components in the aero-engine is the Blades Disk (Blisk) which is produced by using the 5-Axis CNC machine tools. The cutting forces and cutting temperatures of machining operations can create deflection error in the impeller blades. The cutting tool paths with a fixed feed rate in machining operations of free form surfaces such as blisks can create chord errors. As a result, in order to achieve the desired accuracy in the machined blisks, the deflection and chord errors should be analyzed and decreased. In the study, a virtual machining system is presented to predicted and compensate the deflection error in the machining operations of thin-walled blades of blisk. To compensate the deflection error in the machined blades, the matrix of error vectors at each position of cutting tool along machining paths are calculated by using the virtual machining systems. Then, the new machining paths regarding the calculated deflection error at each position of cutting tool along machining paths are to compensate the deflection error of machined blisk blades. A NURBS interpolator algorithms with confined chord error and acceleration control is proposed in the study to reduce chord error in machined blisks. Finally, to validate the developed method, experiment of machining operations of the blisk blades is carried out by using the 5-axis CNC machine tool. Then, the machined blisk is measured by using the CMM machines to obtain the deflection error. Therefore, the developed virtual machining system can provide and advanced device in increasing the accuracy and reliability of the machined blades of get engine blisk by using 5-Axis CNC milling machine tools.

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Thank you very much.

With kind regards,
Adriano Fagali de Souza
Journal of the Brazilian Society of Mechanical Sciences and Engineering

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hendriko hendriko <hendriko@pcr.ac.id>

BMSE-D-21-00852 - Thank you - [EMID:241fa27d7da6acff]

1 message

Journal of the Brazilian Society of Mechanical Sciences and Engineering (BMSE) <em@editorialmanager.com> Tue, May 25, 2021 at 8:33 AM
Reply-To: "Journal of the Brazilian Society of Mechanical Sciences and Engineering (BMSE)" <nandhini.prakash@springer.com>
To: hendriko hendriko <hendriko@pcr.ac.id>

Dear Dr hendriko,

Thank you very much for informing us that you are not able to review BMSE-D-21-00852, "Accuracy Enhancement in 5-Axis Milling Operations of Blisks" for us.

We hope that we may call upon your expertise in the future.

With kind regards,
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