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[CEAI] Article Review Request

Andreea Udrea <andreea.udrea@acse.pub.ro>

Fri, Feb 26, 2016 at 1:54 PM

To: "Prof. Constantin Volosencu" <constantin.volosencu@aut.upt.ro>

Dear Prof. Constantin Volosencu:

I believe that you would serve as an excellent reviewer of the manuscript, "Feedforward Chaotic Neural Network Model for Recognition Rotor Rub-impact fault Based on Acoustic Emission Data," which has been submitted to Journal of Control Engineering and Applied Informatics. The submission's abstract is inserted below, and I hope that you will consider undertaking this important task for us.

Please log into the journal web site by 2016-03-04 to indicate whether you will undertake the review or not, as well as to access the submission and to record your review and recommendation. The web site is <http://ceai.srait.ro/index.php?journal=ceai>

The review itself is due 2016-03-25.

Should you need more time for complete it, please let me know.

Submission URL:

[http://ceai.srait.ro/index.php?journal=ceai&page=reviewer&op=submission&path\[\]=1973](http://ceai.srait.ro/index.php?journal=ceai&page=reviewer&op=submission&path[]=1973)

Thank you for considering this request.

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"Feedforward Chaotic Neural Network Model for Recognition Rotor Rub-impact fault Based on Acoustic Emission Data"

Abstract

The rubbing faults caused by dynamic and static components in large rotatory machine are dangerous in manufacture process. This paper applies a Feedforward Chaotic Neural Network (FCNN) to recognize Acoustic Emission (AE) source in rotor rubbing and diagnose the rotor operational condition. This method adds the dynamic chaotic neurons with Logistic mapping into the Multi-Layer Perceptron (MLP) mode to avoid the network falling into a local minimum, the delayed and feedback structure for maximum efficiency of recognition performance. The AE data was rotor rubbing process sampled from the test rig of rotatory machine, classification by fault degree. The experimental results indicate that the recognition rate is superior to the traditional BP network models. It is an effective method to recognize the rubbing faults for the machine normal operation.

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