

## Accepted Manuscript

Quantum Weighted Gated Recurrent Unit Neural Network and Its Application in Performance Degradation Trend Prediction of Rotating Machinery

Wang Xiang , Feng Li , Jiaxu Wang , Baoping Tang

PII: S0925-2312(18)30748-3  
DOI: [10.1016/j.neucom.2018.06.012](https://doi.org/10.1016/j.neucom.2018.06.012)  
Reference: NEUCOM 19690



To appear in: *Neurocomputing*

Received date: 15 September 2017  
Revised date: 22 March 2018  
Accepted date: 11 June 2018

Please cite this article as: Wang Xiang , Feng Li , Jiaxu Wang , Baoping Tang , Quantum Weighted Gated Recurrent Unit Neural Network and Its Application in Performance Degradation Trend Prediction of Rotating Machinery, *Neurocomputing* (2018), doi: [10.1016/j.neucom.2018.06.012](https://doi.org/10.1016/j.neucom.2018.06.012)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Highlights

- Quantum weighted gated recurrent unit neural network (QWGRUNN) is proposed.
- A novel performance degradation trend prediction method using QWGRUNN is proposed.
- Normalized permutation entropy is constructed.
- The effectiveness of the proposed trend prediction method is demonstrated.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/8953567>

Download Persian Version:

<https://daneshyari.com/article/8953567>

[Daneshyari.com](https://daneshyari.com)