

# Condition Monitoring With Vibration Signals Compressive Sampling And Learning Algorithms For Rotating Machines Wiley Ieee By Asoke K Nandi Hosameldin Ahmed

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'three stage method for rotating machine health condition

June 4th, 2020 - *rotating machines health condition monitoring in the first stage of the proposed method multiple measurement vectors pressive sampling mmv cs is used to obtain pressively sampled signals from the acquired raw vibration signals in the second stage a process binning geodesic minimal spanning tree gmst stochastic proximity*'

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'pressive sampling and deep neural network cs dnn

May 25th, 2020 - *the pressive sampling and sparse autoencoder based deep neural network cs sae dnn uses cs for the sparse time frequency representation model to produce highly pressed vibration measurements from the high dimensional vibration data collected for the purpose of machine condition monitoring*'

'pressive sensing for vibration signals in high speed

May 31st, 2020 - *as the sampling rate of the data acquisition system is 5000 hz it has been determined that the vibration responses are band limited to 2500 hz however by inducing the technique of pressive sensing signals with the same bandwidth can be acquired by a sampling rate equivalently lower than the nyquist rate*'

'pressive sensing of roller bearing faults via harmonic

January 25th, 2017 - *the shannon sampling principle requires substantial amounts of data to ensure the accuracy of on line monitoring of roller bearing fault signals challenges are often encountered as a result of the cumbersome data monitoring thus a novel method focused on pressed vibration signals for detecting roller bearing faults is developed in this study*'

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'pressive sensing a new insight to condition monitoring

May 14th, 2020 - *with the development of rotary machinery condition monitoring challenges have often been encountered due to the cumbersome nature of data monitoring mon methods in signal processing are primarily based on the shannon sampling principle which requires substantial amounts of data to achieve the desired accuracy from on line monitoring signals*' *condition monitoring with vibration signals pressive*

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June 7th, 2020 - *data measurement of roller bearings condition monitoring is carried out based on the shannon sampling theorem resulting in massive amounts of redundant information which will lead to a big data problem increasing the difficulty of roller bearing fault diagnosis to overe the aforementioned shorting a two stage pressed fault detection strategy is proposed in this study*' *pressive sensing a new insight to condition monitoring*

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'a bearing fault detection method based on compressive

June 3rd, 2020 - the general method for bearing fault detection is achieved by using bearing vibration signals which sampled in the frame of Shannon sampling theory so it is necessary to sample and save abundant original vibration data in the process of uninterrupted monitoring and this will generate masses of original data which would burden the storage and transmission for this issue a fault detection''**have you filled a bucket today a guide to daily**

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January 8th, 2020 - condition monitoring with vibration signals compressive sampling and learning algorithms for rotating machines is an excellent book for research students postgraduate students industrial practitioners and researchers about the author Hosameldin Ahmed Ph.D has recently completed his Ph.D degree in electronic and computer engineering'

'pdf machinery condition monitoring principles and

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'international symposium on signal processing and condition

May 16th, 2020 - abstract machine condition monitoring using vibration signals have received a lot of attention in the last few decades there has been a lot of algorithmic developments in recent years there''**application of compressive sampling for accelerometer**

May 8th, 2020 - in structural health monitoring SHM of civil structures data compression is often needed for saving the cost of data transfer and storage because of the large volumes of sensor data generated from the monitoring system the traditional framework for data compression is to first sample the full signal then to compress it recently a new data compression method named compressive sampling'

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May 17th, 2020 - covers the fundamental as well as the state of the art approaches to machine condition monitoring guiding readers from the basics of rotating machines to the generation of knowledge using vibration signals provides new methods including machine learning and compressive sampling which offer significant improvements in accuracy with reduced computational costs features learning algorithms'

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'intelligent condition monitoring for rotating machinery

June 4th, 2020 - intelligent condition monitoring for rotating machinery using compressively sampled data and subspace learning techniques experiments on a roller element bearing fault classification task based on vibration signals are used to evaluate the efficiency of the proposed method machine condition monitoring compressive sampling''**compressive sensing for high speed rail condition**

May 8th, 2020 - in high speed rail HSR condition monitoring the conflict between the resolution of defect detection and the amount of recorded data is usually an issue due to the Nyquist theorem as an emerging technique compressive sensing CS creates the opportunity of sub-Nyquist sampling when target signals have a sparse representation in a known domain'

'British Library Ethos intelligent methods for condition

September 14th, 2019 - the first one is the formulation of a three stage method compressive sampling with correlated principal and discriminant components CSCPC for classification of bearing faults this method applies CS to obtain compressively sampled signals from the raw vibration data and then adopts a multi step feature learning algorithm to learn fewer features from the compressively sampled signals'

'condition monitoring of textiles using optical techniques

May 25th, 2020 - condition monitoring of textiles using optical techniques p 447 application of compressive sampling for accelerometer signals used in structural health monitoring condition monitoring digital image correlation DIC fibre Bragg grating sensor tapestry textile''a sparsity promoted deposition for pressed fault

January 18th, 2017 - 1 introduction since roller bearings are an integral component in rotating machinery it is necessary to conduct condition monitoring for them aiming at preventing the occurrence of unpredictable failures 1 2 vibration based diagnostic techniques are the most effective and widely used methods for state identification of roller bearings as the vibration signals contain much dynamic'

'vibration based monitoring and diagnostics using

May 14th, 2020 - this paper shows that both volume of data and number of sensors can be reduced significantly by applying compressive sensing CS in vibration monitoring applications the reduction is achieved by using random sampling and capitalizing on the sparsity of vibration signals in the frequency domain''**research on sampling of vibration signals based on**

May 26th, 2020 - oversampling is used at traditional signal processing but with the big data developing oversampling has the disadvantages that do not meet the high volume and high velocity so we apply the theory of compressed sensing to sample mechanical vibration signals with undersampling and get the better observation matrix and reconstruction algorithm which are suitable for the vibration signal the'

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