Condition Monitoring Using Computational Intelligence Methods Applications In Mechanical And Electri

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Condition Monitoring Using Computational Intelligence

Condition Monitoring Using Computational Intelligence ...
PAGE #1 : Condition Monitoring Using Computational Intelligence Methods Applications In Mechanical And Electrical Systems By Debbie Macomber - condition monitoring using computational intelligence methods promotes the various approaches gathered under the umbrella of computational intelligence to show how condition

On-Line Condition Monitoring using Computational Intelligence
On-Line Condition Monitoring using Computational Intelligence CB VILAKAZI, T MARWALA, P MAUTLA and E MOLOTO School of Electrical and Information Engineering University of the Witwatersrand Private Bag 3, Wits, 2050 SOUTH AFRICA tmarwala@eewitsacza

Machine Condition Monitoring Using Artificial Intelligence ...
To comply with this requirements, condition monitoring and diagnosis of machinery have become established industry tools [3] Condition monitoring approaches have produced considerable savings by reducing unplanned outage of machinery, reducing downtime for repair and improving reliability and safety Condition monitoring is a technique of sens-

Workshop on Building Computational Intelligence and ...

based condition monitoring schemes With the availability of a wide range of accurate sensors, the main research in condition monitoring is now focused on the processing of information obtained from these sensors Multi-sensor data fusion seeks to increase accuracy by exploiting complementary information, while at the same time increase

A Novel Approach to Condition Monitoring of the Cutting …

Computational models for neural systems have often concentrated on the processing of static stimuli using typical feedforward neural networks, as reported in the vast majority of research on condition monitoring using artificial intelligence [11,14] However, numerous biologically relevant

Computational Intelligence Data Analysis for Decision …

vital signs monitoring to control their health condition In this Computational Intelligence Data Analysis for Decision Support and Health Care Monitoring System 89 paper, we focus on patients in hospital rooms Systems monitoring can be decomposed into, gathering data, Data preparation, Measuring of performances and events,

Electrical Power and Energy Systems - NTUA

Condition monitoring and assessment of power transformers using computational intelligence WH Tang, QH Wu Springer, London (2011) Power transformers are among the most expensive and critical units in a power system [1] Transformer failures are sometimes catastrophic and almost always include irreversible internal dam-age

Computational Intelligence Techniques for Missing Data …

the problem of missing data using computational intelligence approaches, the choice of optimisation methods plays a significant role in prediction Although, it was observed that hybrid GA and Fast Online Condition Monitoring", International Journal of Innovative Computing, Information and Control, 2008, (accepted for publication)

Computational intelligence: inspirations from nature for …

Computational intelligence: inspirations from nature for problem solving B Samanta, PhD IIIA Machine condition monitoring, detection, diagnosis and prognostics [20, 23-29, 34-37] Feature selection is an important issue in many real-world problems Hybrid CI techniques have

Impact of Artificial Intelligence on Economic Theory

Artificial Intelligence Techniques for Rational Decision Making Heidelberg: Springer ISBN 978-3-319-11423-1 5 Marwala, Tshilidzi (2013) Economic Modeling Using Artificial Intelligence Methods Heidelberg: Springer ISBN 978-1-84996-323-7 6 Marwala, Tshilidzi (2012) Condition Monitoring Using Computational Intelligence Methods

Remote Sensing with Computational Intelligence Modelling …

REMOTE SENSING WITH COMPUTATIONAL INTELLIGENCE MODELLING FOR MONITORING THE ECOSYSTEM STATE AND HYDRAULIC PATTERN IN A CONSTRUCTED WETLAND by GOLAM MOHIUDDIN BS Bangladesh University of Engineering & Technology, Bangladesh, 2009 A thesis submitted in partial fulfillment of the requirements for the degree of Master of Science

Remaining useful life prediction using prognostic …

ity of condition monitoring data and draw on learning tech-niques from the area of computational intelligence, where artificial neural networks (ANNs), and other techniques are employed to map measurements into fault growth models (Vachtsevanos et al 2006; Duda et al 2001)

Tool wear classification using time series imaging and …

Tool condition monitoring (TCM) has become essential to achieve high-quality machining as well as cost-effective production Identification of the

cutting tool state during machining before it reaches its failure stage is critical This paper presents a novel big data approach for tool wear classification based on signal imaging and deep learning

Structural Corrosion Health Assessment using Computational …

studies dealing with structural health monitoring using fiber optic sensors [9,10] and wavelet methods [11] To complement existing methods of structural health assessment, computational intelligence methods can also be used The goal therefore, is to develop an integrated system which will provide capabilities for reliable corro-

Intelligent monitoring and maintenance of power plants

Some intelligent monitoring systems using space representing the condition of the health of the equipment 2 We are presently exploring some of the new possibilities offered by advanced techniques of Computational Intelligence in engineering applications One of these involves learning as part of the decision making process

Condition Monitoring Techniques of Power Transformers: A …

condition monitoring is in that it allows for the early identification of developing faults such as arcing before resulting in catastrophic failure Computational Intelligence (CI) CI techniques attempt to emulate human and biological reasoning, decision-making, learning and