

Tshilidzi Marwala

Condition Monitoring Using Computational Intelligence Methods

Applications in Mechanical
and Electrical Systems

 Springer

Condition Monitoring Using Computational Intelligence Methods

Julia Schneider



Condition Monitoring Using Computational Intelligence Methods Condition Monitoring Using Computational Intelligence Methods:

Condition Monitoring Using Computational Intelligence Methods Tshilidzi Marwala, 2012-01-23 Condition Monitoring Using Computational Intelligence Methods promotes the various approaches gathered under the umbrella of computational intelligence to show how condition monitoring can be used to avoid equipment failures and lengthen its useful life minimize downtime and reduce maintenance costs The text introduces various signal processing and pre processing techniques wavelets and principal component analysis for example together with their uses in condition monitoring and details the development of effective feature extraction techniques classified into frequency time frequency and time domain analysis Data generated by these techniques can then be used for condition classification employing tools such as fuzzy systems rough and neuro rough sets neural and Bayesian networks hidden Markov and Gaussian mixture models and support vector machines *Condition Monitoring : Using Computational Intelligence Methods* Anwesh Kotta, 2015 *Computational Intelligence in Remanufacturing* Xing, Bo, Gao, Wen-Jing, 2013-12-31 In attempts to reduce greenhouse gas emissions many alternatives to manufacturing have been recommended from a number of international organizations Although challenges will arise remanufacturing has the ability to transform ecological and business value Computational Intelligence in Remanufacturing introduces various computational intelligence techniques that are applied to remanufacturing related issues results and lessons from specific applications while highlighting future development and research This book is an essential reference for students researchers and practitioners in mechanical industrial and electrical engineering

Intelligent Condition Monitoring and Diagnosis Systems Kesheng Wang, 2003 This work covers intelligent system development In order to survive in an uncertain environment it is necessary to bring artificial neural networks fuzzy logic systems genetic algorithms and expert systems together to make a condition monitoring and diagnosis system more reliable and cost effective than a traditional one The focus of intelligent condition monitoring and diagnosis system is on practical applications of intelligent techniques The text provides practicing engineers and scientists with the information they need to solve the problems in both industry and academia *Smart Computing Applications in Crowdfunding* Bo Xing, Tshilidzi Marwala, 2018-12-07 The book focuses on smart computing for crowdfunding usage looking at the crowdfunding landscape e g reward donation equity P2P based and the crowdfunding ecosystem e g regulator asker backer investor and operator The increased complexity of fund raising scenario driven by the broad economic environment as well as the need for using alternative funding sources has sparked research in smart computing techniques Covering a wide range of detailed topics the authors of this book offer an outstanding overview of the current state of the art providing deep insights into smart computing methods tools and their applications in crowdfunding exploring the importance of smart analysis prediction and decision making within the fintech industry This book is intended to be an authoritative and valuable resource for

professional practitioners and researchers alike as well as finance engineering and computer science students who are interested in crowdfunding and other emerging fintech topics

Condition Monitoring and Assessment of Power Transformers Using Computational Intelligence W.H. Tang,Q.H. Wu,2011-01-19 In recent years rapid changes and improvements have been witnessed in the field of transformer condition monitoring and assessment especially with the advances in computational intelligence techniques Condition Monitoring and Assessment of Power Transformers Using Computational Intelligence applies a broad range of computational intelligence techniques to deal with practical transformer operation problems The approaches introduced are presented in a concise and flowing manner tackling complex transformer modelling problems and uncertainties occurring in transformer fault diagnosis Condition Monitoring and Assessment of Power Transformers Using Computational Intelligence covers both the fundamental theories and the most up to date research in this rapidly changing field Many examples have been included that use real world measurements and realistic operating scenarios of power transformers to fully illustrate the use of computational intelligence techniques for a variety of transformer modelling and fault diagnosis problems Condition Monitoring and Assessment of Power Transformers Using Computational Intelligence is a useful book for professional engineers and postgraduate students It also provides a firm foundation for advanced undergraduate students in power engineering

Intelligent Condition Monitoring and Diagnosis Systems Kesheng Wang,2003 **LESCOPE'01** ,2001 This volume covers intelligent systems scheduling load forecasting power system protection power system stability and security and numerical techniques Transactions ,1997 **Archives of Acoustics Quarterly** ,2018 *Applications and Science of Computational Intelligence* ,1999 **The Shock and Vibration Digest** ,1997 *The 1994 IEEE International Conference on Neural Networks* ,1994 Economic Modeling Using Artificial Intelligence Methods Tshilidzi Marwala,2013-04-02 Economic Modeling Using Artificial Intelligence Methods examines the application of artificial intelligence methods to model economic data Traditionally economic modeling has been modeled in the linear domain where the principles of superposition are valid The application of artificial intelligence for economic modeling allows for a flexible multi order non linear modeling In addition game theory has largely been applied in economic modeling However the inherent limitation of game theory when dealing with many player games encourages the use of multi agent systems for modeling economic phenomena The artificial intelligence techniques used to model economic data include multi layer perceptron neural networks radial basis functions support vector machines rough sets genetic algorithm particle swarm optimization simulated annealing multi agent system incremental learning fuzzy networks Signal processing techniques are explored to analyze economic data and these techniques are the time domain methods time frequency domain methods and fractals dimension approaches Interesting economic problems such as causality versus correlation simulating the stock market modeling and controlling inflation option pricing modeling economic growth as well as portfolio optimization are examined The relationship between economic dependency and interstate conflict is explored and

knowledge on how economics is useful to foster peace and vice versa is investigated Economic Modeling Using Artificial Intelligence Methods deals with the issue of causality in the non linear domain and applies the automatic relevance determination the evidence framework Bayesian approach and Granger causality to understand causality and correlation Economic Modeling Using Artificial Intelligence Methods makes an important contribution to the area of econometrics and is a valuable source of reference for graduate students researchers and financial practitioners *Progress in Mechatronics and Information Technology* Keon Myung Lee, Prasad Yarlagadda, Yang Ming Lu, 2013-11-15 Selected peer reviewed papers from the 2013 International Conference on Mechatronics and Information Technology ICMIT 2013 October 19 20 2013 Guilin China **Technical Literature Abstracts** Society of Automotive Engineers, 1995 [Annual Index/abstracts of SAE Technical Papers](#) , 1994 **New Frontiers in Computational Intelligence and Its Applications** Masoud Mohammadian, 2000 *Electrical & Electronics Abstracts* , 1997 *Computational Intelligence and Applications* Piotr S. Szczepaniak, 1999 The material presented in the book is divided into two main parts Keynotes and Case Studies Five keynotes written by W Pedrycz D Dubois and H Prade M M Gupta P M Frank and T Kaczorek deal with introduction into the concept and basic technologies of computational intelligence CI role of fuzzy logic in information engineering paradigms of fuzzy neural computing intelligent methods in fault diagnosis of technical plants and with models of two dimensional 2D systems which are useful in analysis of methods manifesting the learning ability respectively The second part provides the reader with a sampling of various applications of the methods neural networks genetic algorithms fuzzy and evolutionary systems being the building blocks of the CI However a few contributions exceed this rather stiff frame of CI definition

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