

Tshilidzi Marwala

Condition Monitoring Using Computational Intelligence Methods

Applications in Mechanical
and Electrical Systems

 Springer

Condition Monitoring Using Computational Intelligence Methods Applications In Mechanical And Electrical Systems

Alaa Abdulhady Jaber



Condition Monitoring Using Computational Intelligence Methods Applications In Mechanical And Electrical Systems:

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

Soft Computing in Condition Monitoring and Diagnostics of Electrical and Mechanical Systems Hasmat Malik, Atif Iqbal, Amit Kumar Yadav, 2020-01-17 This book addresses a range of complex issues associated with condition monitoring CM fault diagnosis and detection FDD in smart buildings wide area monitoring WAM wind energy conversion systems WECSs photovoltaic PV systems structures electrical systems mechanical systems smart grids etc The book's goal is to develop and combine all advanced nonintrusive CMFD approaches on a common platform To do so it explores the main components of various systems used for CMFD purposes The content is divided into three main parts the first of which provides a brief introduction before focusing on the state of the art and major research gaps in the area of CMFD The second part covers the step by step implementation of novel soft computing applications in CMFD for electrical and mechanical systems In the third and final part the simulation codes for each chapter are included in an extensive appendix to support newcomers to the field

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

Artificial Intelligence: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2016-12-12 Ongoing advancements in modern technology have led to significant developments in

artificial intelligence With the numerous applications available it becomes imperative to conduct research and make further progress in this field Artificial Intelligence Concepts Methodologies Tools and Applications provides a comprehensive overview of the latest breakthroughs and recent progress in artificial intelligence Highlighting relevant technologies uses and techniques across various industries and settings this publication is a pivotal reference source for researchers professionals academics upper level students and practitioners interested in emerging perspectives in the field of artificial intelligence

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

Smart Maintenance for Human-Robot Interaction Bo Xing, Tshilidzi Marwala, 2017-09-08 This self contained book written by active researchers presents up to date information on smart maintenance strategies for human robot interaction HRI and the associated applications of novel search algorithms in a single volume eliminating the need to consult scattered resources Unlike other books it addresses maintaining a smart HRI from three dimensions namely hardware cyberware and hybrid asset management covering problems encountered in each through a wide variety of representative examples and elaborated illustrations Further the diverse mathematical models and intelligent systems constructions make the book highly practical It enables readers interested in maintenance robotics and intelligent systems but perplexed by myriads of interrelated issues to grasp basic methodologies At the same time the referenced literature can be used as a roadmap for conducting deeper researches

Innovative Computational Intelligence: A Rough Guide to 134 Clever Algorithms Bo Xing, Wen-Jing Gao, 2013-12-13 The first notable feature of this book is its innovation Computational intelligence CI a fast evolving area is currently attracting lots of researchers attention in dealing with many complex problems At present there are quite a lot competing books existing in the market Nevertheless the present book is markedly different from the existing books in that it presents new paradigms of CI that have rarely mentioned before as opposed to the traditional CI techniques or methodologies employed in other books During the past decade a number of new CI algorithms are proposed Unfortunately they spread in a number of unrelated publishing directions which may hamper the use of such published resources These provide us with motivation to analyze the existing research for categorizing and synthesizing it in a meaningful manner The mission of this book is really important since those algorithms are going to be a new revolution in computer science We hope it will stimulate the readers to make novel contributions or even start a new paradigm based on nature phenomena Although structured as a textbook the book s straightforward self contained style will also appeal to a

wide audience of professionals researchers and independent learners We believe that the book will be instrumental in initiating an integrated approach to complex problems by allowing cross fertilization of design principles from different design philosophies The second feature of this book is its comprehensiveness Through an extensive literature research there are 134 innovative CI algorithms covered in this book

The Balancing Problem in the Governance of Artificial Intelligence Tshilidzi Marwala,2024-11-12 This book examines the balancing problems in the governance of artificial intelligence AI AI is transforming the world at an unprecedented pace which is revolutionary and presents significant challenges Nevertheless AI s complex balance dilemma necessitates careful governance as it transforms businesses economies and society Fundamental issues discussed in this book include the complexities of AI s dual nature the challenges of aligning memorizing with thinking and the trade offs between opportunity seeking and risk aversion This book explores the complex interplay between AI security and transparency the technical decision between CPUs and GPUs and the expanding potential of quantum computing Nevertheless the challenge of maintaining balance is not resolved by technological advancements It encompasses the global arena where the forces of globalization and localization must be reconciled and the governance sphere where self regulation must coexist with government control Comprising cutting edge research real world examples and futuristic perspectives this book guides researchers practitioners politicians entrepreneurs and leaders in navigating AI s future The reader will learn how to capitalize on the potential of AI while avoiding its weaknesses ensuring that this disruptive technology benefits society

Artificial Intelligence and the Law Tshilidzi Marwala,Letlhokwa George Mpedi,2024-05-17 This textbook offers a starting point for the education of attorneys and other legal professionals about the potential impact of artificial intelligence AI on the law as well as a forum for discussing artificial intelligence s legal and ethical concerns Intended for classroom use this book will help students legal professionals and policymakers alike AI is swiftly transforming the world including the legal system Legal applications to areas such as ethics human rights climate change labor law health social protection inequality lethal autonomous weapons the criminal justice system and autonomous vehicles contract drafting legal investigation criminal analysis and evidence investigation utilize AI As AI becomes more sophisticated its impact on the law will likely increase

Handbook Of Machine Learning - Volume 2: Optimization And Decision Making Tshilidzi Marwala,Collins Achepsah Leke,2019-11-21 Building on this volume on Optimization and Decision Making covers a range of algorithms and their applications Like the first volume it provides a starting point for machine learning enthusiasts as a comprehensive guide on classical optimization methods It also provides an in depth overview on how artificial intelligence can be used to define disprove or validate economic modeling and decision making concepts

Higher Education in the Era of the Fourth Industrial Revolution Nancy W. Gleason,2018-06-21 This open access collection examines how higher education responds to the demands of the automation economy and the fourth industrial revolution Considering significant trends in how people are learning coupled with the ways in which different

higher education institutions and education stakeholders are implementing adaptations it looks at new programs and technological advances that are changing how and why we teach and learn The book addresses trends in liberal arts integration of STEM innovations the changing role of libraries in the digital age global trends in youth mobility and the development of lifelong learning programs This is coupled with case study assessments of the various ways China Singapore South Africa and Costa Rica are preparing their populations for significant shifts in labour market demands shifts that are already underway Offering examples of new frameworks in which collaboration between government industry and higher education institutions can prevent lagging behind in this fast changing environment this book is a key read for anyone wanting to understand how the world should respond to the radical technological shifts underway on the frontline of higher education

Progress in Artificial Intelligence and Pattern Recognition Yanio Hernández Heredia, Vladimir Milián Núñez, José Ruiz Shulcloper, 2018-09-21 This book constitutes the refereed proceedings of the 6th International Workshop on Artificial Intelligence and Pattern Recognition IWAIPR 2018 held in Havana Cuba in September 2018 The 42 full papers presented were carefully reviewed and selected from 101 submissions The papers promote and disseminate ongoing research on mathematical methods and computing techniques for artificial intelligence and pattern recognition in particular in bioinformatics cognitive and humanoid vision computer vision image analysis and intelligent data analysis as well as their application in a number of diverse areas such as industry health robotics data mining opinion mining and sentiment analysis telecommunications document analysis and natural language processing and recognition

Learning Systems: From Theory to Practice Vassil Sgurev, Vincenzo Piuri, Vladimir Jotsov, 2018-04-05 By presenting the latest advances in fuzzy sets and computing with words from around the globe this book disseminates recent innovations in advanced intelligent technologies and systems From intelligent control and intuitionistic fuzzy quantifiers to various data science and industrial applications it includes a wide range of valuable lessons learned and ideas for future intelligent products and systems

Reliability in Power Electronics and Electrical Machines: Industrial Applications and Performance Models Kaboli, Shahriyar, Oraee, Hashem, 2016-03-08 In modern industries electrical energy conversion systems consist of two main parts electrical machines and power electronic converters With global electricity use at an all time high uninterrupted operation of electrical power converters is essential Reliability in Power Electronics and Electrical Machines Industrial Applications and Performance Models provides an in depth analysis of reliability in electrical energy converters as well as strategies for designing dependable power electronic converters and electrical machines Featuring a comprehensive discussion on the topics of reliability design and measurement failure mechanisms and specific issues pertaining to quality efficiency and durability this timely reference source offers practical examples and research based results for use by engineers researchers and advanced level students

Design of an Intelligent Embedded System for Condition Monitoring of an Industrial Robot Alaa Abdulhady Jaber, 2016-09-08 This thesis introduces a successfully designed and commissioned intelligent health

monitoring system specifically for use on any industrial robot which is able to predict the onset of faults in the joints of the geared transmissions However the developed embedded wireless condition monitoring system leads itself very well for applications on any power transmission equipment in which the loads and speeds are not constant and access is restricted As such this provides significant scope for future development Three significant achievements are presented in this thesis First the development of a condition monitoring algorithm based on vibration analysis of an industrial robot for fault detection and diagnosis The combined use of a statistical control chart with time domain signal analysis for detecting a fault via an arm mounted wireless processor system represents the first stage of fault detection Second the design and development of a sophisticated embedded microprocessor base station for online implementation of the intelligent condition monitoring algorithm and third the implementation of a discrete wavelet transform using an artificial neural network with statistical feature extraction for robot fault diagnosis in which the vibration signals are first decomposed into eight levels of wavelet coefficients

Handbook Of Machine Learning - Volume 1: Foundation Of Artificial Intelligence Tshilidzi Marwala, 2018-10-22 This is a comprehensive book on the theories of artificial intelligence with an emphasis on their applications It combines fuzzy logic and neural networks as well as hidden Markov models and genetic algorithm describes advancements and applications of these machine learning techniques and describes the problem of causality This book should serve as a useful reference for practitioners in artificial intelligence

Intelligent Data Analytics for Power and Energy Systems Hasmat Malik, Md. Waseem Ahmad, D.P. Kothari, 2022-02-17 This book brings together state of the art advances in intelligent data analytics as driver of the future evolution of PaE systems In the modern power and energy PaE domain the increasing penetration of renewable energy sources RES and the consequent empowerment of consumers as a central and active solution to deal with the generation and development variability are driving the PaE system towards a historic paradigm shift The small scale diversity and especially the number of new players involved in the PaE system potentiate a significant growth of generated data Moreover advances in communication between IoT devices and M2M machine to machine man to machine etc and digitalization hugely increased the volume of data that results from PaE components installations and systems operation This data is becoming more and more important for PaE systems operation maintenance planning and scheduling with relevant impact on all involved entities from producers consumer s and aggregators to market and system operators However although the PaE community is fully aware of the intrinsic value of those data the methods to deal with it still necessitate substantial enhancements development and research Intelligent data analytics is thereby playing a fundamental role in this domain by enabling stakeholders to expand their decision making method and achieve the awareness on the PaE environment The editors also included demonstrated codes for presented problems for better understanding for beginners

Computational Intelligence in Reliability Engineering Gregory Levitin, 2007-01-10 This two volume book covers the recent applications of computational intelligence techniques in

reliability engineering Research in the area of computational intelligence is growing rapidly due to the many successful applications of these new techniques in very diverse problems Computational Intelligence covers many fields such as neural networks fuzzy logic evolutionary computing and their hybrids and derivatives Many industries have benefited from adopting this technology The increased number of patents and diverse range of products developed using computational intelligence methods is evidence of this fact These techniques have attracted increasing attention in recent years for solving many complex problems They are inspired by nature biology statistical techniques physics and neuroscience They have been successfully applied in solving many complex problems where traditional problem solving methods have failed The book aims to be a repository for the current and cutting edge applications of computational intelligent techniques in reliability analysis and optimization

Rational Machines and Artificial Intelligence Tshilidzi Marwala, 2021-03-31 Intelligent machines are populating our social economic and political spaces These intelligent machines are powered by Artificial Intelligence technologies such as deep learning They are used in decision making One element of decision making is the issue of rationality Regulations such as the General Data Protection Regulation GDPR require that decisions that are made by these intelligent machines are explainable *Rational Machines and Artificial Intelligence* proposes that explainable decisions are good but the explanation must be rational to prevent these decisions from being challenged Noted author Tshilidzi Marwala studies the concept of machine rationality and compares this to the rationality bounds prescribed by Nobel Laureate Herbert Simon and rationality bounds derived from the work of Nobel Laureates Richard Thaler and Daniel Kahneman *Rational Machines and Artificial Intelligence* describes why machine rationality is flexibly bounded due to advances in technology This effectively means that optimally designed machines are more rational than human beings Readers will also learn whether machine rationality can be quantified and identify how this can be achieved Furthermore the author discusses whether machine rationality is subjective Finally the author examines whether a population of intelligent machines collectively make more rational decisions than individual machines Examples in biomedical engineering social sciences and the financial sectors are used to illustrate these concepts Provides an introduction to the key questions and challenges surrounding Rational Machines including When do we rely on decisions made by intelligent machines What do decisions made by intelligent machines mean Are these decisions rational or fair Can we quantify these decisions and Is rationality subjective Introduces for the first time the concept of rational opportunity costs and the concept of flexibly bounded rationality as a rationality of intelligent machines and the implications of these issues on the reliability of machine decisions Includes coverage of Rational Counterfactuals group versus individual rationality and rational markets Discusses the application of Moore's Law and advancements in Artificial Intelligence as well as developments in the area of data acquisition and analysis technologies and how they affect the boundaries of intelligent machine rationality

Proceedings of 3rd International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication Anuradha

Tomar,Hasmat Malik,Pramod Kumar,Atif Iqbal,2022-09-17 This book gathers selected papers presented at International Conference on Machine Learning Advances in Computing Renewable Energy and Communication MARC 2021 held in Krishna Engineering College Ghaziabad India during 10 11 December 2021 This book discusses key concepts challenges and potential solutions in connection with established and emerging topics in advanced computing renewable energy and network communications

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Been Down So Long It Looks Like Up to Me hilarious, chilling, sexy, profound, maniacal, beautiful and outrageous all at the same time," in an introduction to the paperback version of Been Down.... Been Down So Long It Looks Like Up to Me (Penguin ... The book is about young adults in their formative years, presumably intelligent but preoccupied with the hedonistic degeneracy of criminal underclass. Even ... Been Down So Long It Looks Like Up to Me A witty, psychedelic, and

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telling novel of the 1960s. Richard Fariña evokes the Sixties as precisely, wittily, and poignantly as F. Scott Fitzgerald ...
Richard Farina - Been Down so Long it Looks Like Up to Me Sing a song of sixpence, pocket full of rye, Four and twenty blackbirds, baked in a pie, When the pie was opened, the birds began to sing Wasn't ... Richard Fariña's "Been So Down It Looks Like Up to Me" ... Apr 29, 2016 — Richard Fariña's Been Down So Long It Looks Like Up to Me turns fifty. ... I am gazing, as I write, at a black-and-white photograph of Richard ... Been Down So Long It Looks Like Up to Me (film) Been Down So Long It Looks Like Up to Me is a 1971 American drama film directed by Jeffrey Young and written by Robert Schlitt and adapted from the Richard ... Been Down So Long It Looks Like Up to... book by Richard ... A witty, psychedelic, and telling novel of the 1960s Richard Fari a evokes the Sixties as precisely, wittily, and poignantly as F. Scott Fitzgerald captured ... Been Down So Long It Looks Like Up to Me - Richard Farina Review: This is the ultimate novel of college life during the first hallucinatory flowering of what has famously come to be known as The Sixties. Been Down ... ECHO BOARDS- SECOND EDITION-A Prep Guide for the ... CCI tests candidates abilities in one Test. Echo Boards has you covered to help you PASS your CCI Board Examination! This Book includes end chapter questions ... Registered Cardiac Sonographer (RCS) - CCI The RCS examination is designed to assess knowledge and skills in current practice. CCI provides an overview of the examination content including knowledge and ... Self-Assessment Exam - CCI - Cardiovascular Credentialing CCI's self-assessment exams are a resource in preparation for credentialing examinations. Available 24 hours a day via internet access. Adult Echocardiography Registry Review Prepare for success on the ARDMS or CCI Adult Echo Registry Exam using the registry review courses and practice exams on our website. Study the course with ... RCS Exam Overview This Examination Overview is meant to assist you as a prospective candidate of the Registered Cardiac Sonographer (RCS) credential- ing program. CCI echo test questions Folder Quizlet has study tools to help you learn anything. Improve your grades and ... CCI echo test questions. Sort or filter these sets. CCI Echocardiography ... CCI RCS Study Guide Flashcards Study with Quizlet and memorize flashcards containing terms like Cavitation is, The 6 intensities from highest to lowest are, What tricuspid valve leaflets ... Adult Echocardiography Registry Review - Gold Package Adult Echocardiography Registry Review Online Course provides a comprehensive review for successful certification exam completion. The adult cardiac ultrasound ... Any recommendations for materials CCI RCS exam Which websites are the best and exactly near actual CCI RCS: Exam edge or Ultrasound Board Review ... Hello do you still have the study guide? Campbell Biology in Focus by Urry, Lisa Built unit-by-unit, Campbell Biology in Focus achieves a balance between breadth and depth of concepts to move students away from memorization. Campbell Biology in Focus Campbell Biology in Focus is designed to help you master the fundamental content and scientific skills you need as a college biology major. Streamlined content ... CAMPBELL BIOLOGY IN FOCUS CAMPBELL BIOLOGY IN FOCUS ... Textbooks can only be purchased by selecting courses. Please visit the Course List Builder to get started. Campbell Biology in Focus, 3rd Edition AP® Edition © 2020 Campbell Biology in Focus emphasizes the essential

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