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Electromagnetic Fields in Electrical Engineering Solutions Manual, Electric Machines FLUID MECHANICS AND TURBO MACHINES Machine Learning Applications in Subsurface Energy Resource Management Machine Learning Proceedings 1995 International Conference on Innovative Computing and Communications Pattern Recognition and Machine Intelligence Evolutionary Computing in Advanced Manufacturing Machine Learning in Information and Communication Technology Advanced Computing, Machine Learning, Robotics and Internet Technologies Power Quality in Power Systems, Electrical Machines, and Power-Electronic Drives Handbook of Research on Data-Driven Mathematical Modeling in Smart Cities The Internet of Things Data Science and Machine Learning for Non-Programmers Dark Web Pattern Recognition and Crime Analysis Using Machine Intelligence The International Conference on Advanced Machine Learning Technologies and Applications (AMLTA2018) Reprint Series Applying Machine Learning Techniques to Bioinformatics: Few-Shot and Zero-Shot Methods Innovative Machine Learning Applications for Cryptography Computational Intelligence and Data Analytics Finite Element Analysis of Electrical Machines Power Quality in Power Systems and Electrical Machines Machine Learning, Image Processing, Network Security and Data Sciences Cognition and Recognition Handbook of Computational Intelligence in Manufacturing and Production Management Contemporary Issues in Communication, Cloud and Big Data Analytics Environmentally Friendly Machining Proceedings of International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications Artificial Intelligence and Machine Learning-Powered Smart Finance Web Services: Concepts, Methodologies, Tools, and Applications Machine Intelligence Modern Approaches in Machine Learning and Cognitive Science: A Walkthrough Machine Learning for Emotion Analysis in Python Machine Learning Algorithms and Applications in Engineering Reshaping Environmental Science Through Machine Learning and IoT Multisensor Data Fusion and Machine Learning for Environmental Remote Sensing Machine Learning and Cognitive Computing for Mobile

Communications and Wireless Networks Proceedings of International Conference on Advanced Communications and Machine Intelligence

Machine Learning Algorithms for Industrial Applications The Digest Record

Electromagnetic Fields in Electrical Engineering

2002

this volume includes contributions on field theory and advanced computational electromagnetics electrical machines and transformers optimization and interactive design electromagnetics in materials coupled field and electromagnetic components in mechatronics induction heating systems bioelectromagnetics and electromagnetics in education

Solutions Manual, Electric Machines

1985

primarily designed as a text for the undergraduate students of aeronautical engineering mechanical engineering civil engineering chemical engineering and other branches of applied science this book provides a basic platform in fluid mechanics and turbomachines the book begins with a description of the fundamental concepts of fluid mechanics such as fluid properties its static and dynamic pressures buoyancy and floatation and flow through pipes orifices mouthpieces notches and weirs then it introduces more complex topics like laminar flow and its application turbulent flow compressible flow dimensional analysis and model investigations finally the text elaborates on impact of jets and turbomachines like turbines pumps and miscellaneous fluid machines key features comprises twenty four methods of flow measurements presents derivations of equations in an easy to understand manner contains numerous solved numerical problems in s i units includes unsteady equations of continuity and dynamic equation of gradually varied flow in open channel

FLUID MECHANICS AND TURBO MACHINES

2008-06-04

the utilization of machine learning ml techniques to understand hidden patterns and build data driven predictive models from complex multivariate datasets is rapidly increasing in many applied science and engineering disciplines including geo energy motivated by these developments machine learning applications in subsurface energy resource management presents a current snapshot of the state of the art and future outlook for ml applications to manage subsurface energy resources e g oil and gas geologic carbon sequestration and geothermal energy covers ml applications across multiple application domains reservoir characterization drilling production reservoir modeling and predictive maintenance offers a variety of perspectives from authors representing operating companies universities and research organizations provides an array of case studies illustrating the latest applications of several ml techniques includes a literature review and future outlook for each application domain this book is targeted at practicing petroleum engineers or geoscientists interested in developing a broad understanding of ml applications across several subsurface domains it is also aimed as a supplementary reading for graduate level courses and will also appeal to professionals and researchers working with hydrogeology and nuclear waste disposal

Machine Learning Applications in Subsurface Energy Resource Management

2022-12-27

machine learning proceedings 1995

Machine Learning Proceedings 1995

2016-01-22

this book includes high quality research papers presented at the sixth international conference on innovative computing and communication icicc 2023 which is held at the shaheed sukhdev college of business studies university of delhi delhi india on february 17 18 2023 introducing the innovative works of scientists professors research scholars students and industrial experts in the field of computing and communication the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real time applications

International Conference on Innovative Computing and Communications

2023-07-25

the two volume set of lncs 11941 and 11942 constitutes the refereed proceedings of the 8th international conference on pattern recognition and machine intelligence premi 2019 held in tezpur india in december 2019 the 131 revised full papers presented were carefully reviewed and selected from 341 submissions they are organized in topical sections named pattern recognition machine learning deep learning soft and evolutionary computing image processing medical image processing bioinformatics and biomedical signal processing information retrieval remote sensing signal and video processing and smart and intelligent sensors

Pattern Recognition and Machine Intelligence

2019-11-25

this cutting edge book covers emerging evolutionary and nature inspired optimization techniques in the field of advanced manufacturing the complexity of real life advanced manufacturing problems often cannot be solved by traditional engineering or computational methods hence in recent years researchers and practitioners have proposed and developed new strands of advanced intelligent techniques and methodologies evolutionary computing approaches are introduced in the context of a wide range of manufacturing activities and through the examination of practical problems and their solutions readers will gain confidence to apply these powerful computing solutions the initial chapters introduce and discuss the well established evolutionary algorithm to help readers to understand the basic building blocks and steps required to successfully implement their own solutions to real life advanced manufacturing problems in the later chapters modified and improved versions of evolutionary algorithms are discussed the book concludes with appendices which provide general descriptions of several evolutionary algorithms

Evolutionary Computing in Advanced Manufacturing

2011-07-05

this book presents collection of research papers presented at international conference on information and communication technology icict 2021 organized by department of information technology sikkim manipal institute of technology sikkim india during 23 24 december 2021 the book includes papers in the research area of communication networks data science healthcare informatics bio medical image

processing security of information including cryptography machine learning applications and ai applications

Machine Learning in Information and Communication Technology

2022-11-09

power quality in power systems electrical machines and power electronic drives uses current research and engineering practices guidelines standards and regulations for engineering professionals and students interested in solving power quality problems in a cost effective reliable and safe manner within the context of renewable energy systems the book contains chapters that address power quality across diverse facets of electric energy engineering including ac and dc transmission and distribution lines end user applications such as electric machines transformers inductors capacitors wind power and photovoltaic power plants and variable speed variable torque power electronic drives the book covers nonsinusoidal waveshapes voltage disturbances harmonic losses aging and lifetime reductions single time events such as voltage dips and the effects of variable speed drives controlled by pwm converters the book also reviews a corpus of techniques to mitigate power quality problems such as the optimal design of renewable energy storage devices including lithium ion batteries and fuel cells for automobiles serving as energy storage and the optimal design of nonlinear loads for simultaneous efficiency and power quality provides theoretical and practical insights into power quality problems related to future smart grid renewable hybrid electric power systems electric machines and variable speed variable torque power electronic drives contains a highly varied corpus of practical applications drawn from current international practice designed as a self study tool with end of chapter problems and solutions designed to build understanding includes very highly referenced chapters that enable readers to save time and money in the research discovery process for critical research articles regulatory standards and guidelines

Advanced Computing, Machine Learning, Robotics and Internet Technologies

2023-02-13

a smart city utilizes ict technologies to improve the working effectiveness share various data with the citizens and enhance political assistance and societal wellbeing the fundamental needs of a smart and sustainable city are utilizing smart technology for enhancing municipal activities expanding monetary development and improving citizens standards of living the handbook of research on data driven mathematical modeling in smart cities discusses new mathematical models in smart and sustainable cities using big data visualization tools in mathematical modeling machine learning based mathematical modeling and more it further delves into privacy and ethics in data analysis covering topics such as deep learning optimization based data science and smart city automation this premier reference source is an excellent resource for mathematicians statisticians computer scientists civil engineers government officials students and educators of higher education librarians researchers and academicians

Power Quality in Power Systems, Electrical Machines, and Power–Electronic Drives

2023-02-17

thisvolumecontainstheproceedingsoftheinternetofthings iot conference 2008 the rst international conference of its kind the conference took place in zurich switzerland march26 28 2008 the term internet of things hascome to describe a number of technologies and researchdisciplines that enable the ternet to reach out into the real world of physical objects technologies such as rfid short range wireless communications real time localization and sensor networks are becoming increasingly common bringing the internet of things into industrial

commercial and domestic use iot 2008 brought together le ing researchersand practitioners from both academia and industry to facilitate the sharing of ideas applications and research results iot 2008 attracted 92 high quality submissions from which the technical program committee accepted 23 papers resulting in a competitive 25 acc tance rate in total there were over 250 individual authors from 23 countries representing both academic and industrial organizations papers were selected solely on the quality of their blind peer reviews we were fortunate to draw on the combined experience of our 59 program committee members coming from the most prestigious universities and research labs in europe north america asia and australia program committee members were aided by no less than 63 external reviewers in this rigorous process in which each committee member wrote about 6 reviews the total of 336 entered reviews resulted in an average of 3 7 reviews per paper or slightly more than 1000 words of feedback for each paper submitted

Handbook of Research on Data-Driven Mathematical Modeling in Smart Cities

2008-03-15

as data continues to grow exponentially knowledge of data science and machine learning has become more crucial than ever machine learning has grown exponentially however the abundance of resources can be overwhelming making it challenging for new learners this book aims to address this disparity and cater to learners from various non technical fields enabling them to utilize machine learning effectively adopting a hands on approach readers are guided through practical implementations using real datasets and sas enterprise miner a user friendly data mining software that requires no programming throughout the chapters two large datasets are used consistently allowing readers to practice all stages of the data mining process within a cohesive project framework this book also provides specific guidelines and examples on presenting data mining results and reports enhancing effective communication with stakeholders designed as a

guiding companion for both beginners and experienced practitioners this book targets a wide audience including students lecturers researchers and industry professionals from various backgrounds

The Internet of Things

2024-02-23

data stealing is a major concern on the internet as hackers and criminals have begun using simple tricks to hack social networks and violate privacy cyber attack methods are progressively modern and obstructing the attack is increasingly troublesome regardless of whether countermeasures are taken the dark especially presents challenges to information privacy and security due to anonymous behaviors and the unavailability of data to better understand and prevent cyberattacks it is vital to have a forecast of cyberattacks proper safety measures and viable use of cyber intelligence that empowers these activities dark pattern recognition and crime analysis using machine intelligence discusses cyberattacks security and safety measures to protect data and presents the shortcomings faced by researchers and practitioners due to the unavailability of information about the dark attacker techniques in these dark environments are highlighted along with intrusion detection practices and crawling of hidden content covering a range of topics such as malware and fog computing this reference work is ideal for researchers academicians practitioners industry professionals computer scientists scholars instructors and students

Data Science and Machine Learning for Non-Programmers

2022-05-13

this book presents the refereed proceedings of the third international conference on advanced machine learning technologies and applications amlta 2018 held in cairo egypt on february 22 24 2018 and organized by the scientific research group in egypt srge the papers cover current research in machine learning big data internet of things biomedical engineering fuzzy logic security and intelligence swarms and optimization

Dark Web Pattern Recognition and Crime Analysis Using Machine Intelligence

2018-01-25

why are cutting edge data science techniques such as bioinformatics few shot learning and zero shot learning underutilized in the world of biological sciences in a rapidly advancing field the failure to harness the full potential of these disciplines limits scientists ability to unlock critical insights into biological systems personalized medicine and biomarker identification this untapped potential hinders progress and limits our capacity to tackle complex biological challenges the solution to this issue lies within the pages of applying machine learning techniques to bioinformatics this book serves as a powerful resource offering a comprehensive analysis of how these emerging disciplines can be effectively applied to the realm of biological research by addressing these challenges and providing in depth case studies and practical implementations the book equips researchers scientists and curious minds with the knowledge and techniques needed to navigate the ever changing landscape of bioinformatics and machine learning within the biological sciences

The International Conference on Advanced Machine Learning Technologies and Applications (AMLTA2018)

1984

data security is paramount in our modern world and the symbiotic relationship between machine learning and cryptography has recently taken center stage the vulnerability of traditional cryptosystems to human error and evolving cyber threats is a pressing concern the stakes are higher than ever and the need for innovative solutions to safeguard sensitive information is undeniable innovative machine learning applications for cryptography emerges as a steadfast resource in this landscape of uncertainty machine learning s prowess in scrutinizing data trends identifying vulnerabilities and constructing adaptive analytical models offers a compelling solution the book explores how machine learning can automate the process of constructing analytical models providing a continuous learning mechanism to protect against an ever increasing influx of data this book goes beyond theoretical exploration and provides a comprehensive resource designed to empower academic scholars specialists and students in the fields of cryptography machine learning and network security its broad scope encompasses encryption algorithms security and more unconventional topics like quantum cryptography biological cryptography and neural cryptography by examining data patterns and identifying vulnerabilities it equips its readers with actionable insights and strategies that can protect organizations from the dire consequences of security breaches

Reprint Series

2024-03-22

the book presents high quality research papers presented at the international conference on computational intelligence and data analytics iccida 2022 organized by the department of information technology vasavi college of engineering hyderabad india in january 2022 iccida provides an excellent platform for exchanging knowledge with the global community of scientists engineers and educators this volume covers cutting edge research in two prominent areas computational intelligence and data analytics and allied research areas

Applying Machine Learning Techniques to Bioinformatics: Few-Shot and Zero-Shot Methods

2024-03-04

in finite element analysis of electrical machines the author covers two dimensional analysis emphasizing the use of finite elements to perform the most common calculations required of machine designers and analysts the book explains what is inside a finite element program and how the finite element method can be used to determine the behavior of electrical machines the material is tutorial and includes several completely worked out examples the main illustrative examples are synchronous and induction machines the methods described have been used successfully in the design and analysis of most types of rotating and linear machines audience a valuable reference source for academic researchers practitioners and designers of electrical machinery

Innovative Machine Learning Applications for Cryptography

2022-09-01

the second edition of this must have reference covers power quality issues in four parts including new discussions related to renewable energy systems the first part of the book provides background on causes effects standards and measurements of power quality and harmonics once the basics are established the authors move on to harmonic modeling of power systems including components and apparatus electric machines the final part of the book is devoted to power quality mitigation approaches and devices and the fourth part extends the analysis to power quality solutions for renewable energy systems throughout the book worked examples and exercises provide practical applications and tables charts and graphs offer useful data for the modeling and analysis of power quality issues provides theoretical and practical insight into power quality problems of electric machines and systems 134 practical application example problems with solutions 125 problems at the end of chapters dealing with practical applications 924 references mostly journal articles and conference papers as well as national and international standards and guidelines

Computational Intelligence and Data Analytics

2012-12-06

this two volume set ccis 1240 1241 constitutes the refereed proceedings of the second international conference on machine learning image processing network security and data sciences mind 2020 held in silchar india due to the covid 19 pandemic the conference has been postponed to july 2020 the 79 full papers and 4 short papers were thoroughly reviewed and selected from 219 submissions the papers are

organized according to the following topical sections data science and big data image processing and computer vision machine learning and computational intelligence network and cyber security

Finite Element Analysis of Electrical Machines

2015-07-14

this volume constitutes the refereed proceedings of the eighth international conference on cognition and recognition iccr 2021 held in mandya india in december 2021 the 24 full papers and 9 short papers presented were carefully reviewed and selected from 150 submissions the iccr conference aims to bring together leading academic scientists researchers and research scholars to exchange and share their experiences and research results on all aspects of computer vision image processing machine learning and deep learning technologies

Power Quality in Power Systems and Electrical Machines

2020-06-24

during the last two decades computer and information technologies have forced great changes in the ways businesses manage operations in meeting the desired quality of products and services customer demands competition and other challenges the handbook of computational intelligence in manufacturing and production management focuses on new developments in computational intelligence in areas such as forecasting scheduling production planning inventory control and aggregate planning among others this comprehensive collection of

research provides cutting edge knowledge on information technology developments for both researchers and professionals in fields such as operations and production management engineering artificial intelligence and information resources management

Machine Learning, Image Processing, Network Security and Data Sciences

2023-01-01

this book presents the outcomes of the first international conference on communication cloud and big data ccb held on december 18 19 2020 at sikkim manipal institute of technology majitar sikkim india this book contains research papers and articles in the latest topics related to the fields like communication networks cloud computing big data analytics and on various computing techniques research papers addressing security issues in above mentioned areas are also included in the book the research papers and articles discuss latest issues in the above mentioned topics the book is very much helpful and useful for the researchers engineers practitioners research students and interested readers

Cognition and Recognition

2007-11-30

environment friendly machining provides an in depth overview of environmentally friendly machining processes covering numerous different types of machining in order to identify which practice is the most environmentally sustainable the book discusses three systems at length machining with minimal cutting fluid air cooled machining and dry machining also covered is a way to conserve energy during machining

processes along with useful data and detailed descriptions for developing and utilizing the most efficient modern machining tools

researchers and engineers looking for sustainable machining solutions will find environment friendly machining to be a useful volume

Handbook of Computational Intelligence in Manufacturing and Production Management

2021-11-30

this book gathers selected research papers presented at the international conference on recent trends in machine learning iot smart cities applications icmisc 2020 held on 29 30 march 2020 at cmr institute of technology hyderabad telangana india discussing current trends in machine learning internet of things and smart cities applications with a focus on multi disciplinary research in the area of artificial intelligence and cyber physical systems this book is a valuable resource for scientists research scholars and pg students wanting formulate their research ideas and find the future directions in these areas further it serves as a reference work anyone wishing to understand the latest technologies used by practicing engineers around the globe

Contemporary Issues in Communication, Cloud and Big Data Analytics

2012-01-10

in the field of finance the pervasive influence of algorithms has transformed the very fabric of the industry today over 75 of trades are orchestrated by algorithms making them the linchpin for trade automation predictions and decision making this algorithmic reliance while propelling financial services into unprecedented efficiency has also ushered in a host of challenges as the financial sector becomes

increasingly algorithm driven concerns about risk assessment market manipulation and the ethical implications of automated decision making have taken center stage artificial intelligence and machine learning powered smart finance meticulously examines the intersection of computational finance and advanced algorithms and the challenges associated with this technology as algorithms permeate various facets of financial services the book takes a deep dive into their applications spanning forecasting portfolio optimization market trends analysis and cryptoanalysis it sheds light on the role of ai based algorithms in personnel selection implementing trusted financial services developing recommendation systems for financial platforms and detecting fraud presenting a compelling case for the integration of innovative solutions in the financial sector as the book unravels the intricate tapestry of algorithmic applications in finance it also illuminates the ethical considerations and governance frameworks essential for navigating the delicate balance between technological innovation and responsible financial practices

Environmentally Friendly Machining

2020-10-17

service technologies are redefining the way that large and small companies are doing business and exchanging information due to the critical need for furthering automation engagement and efficiency systems and workflows are becoming increasingly more web based services concepts methodologies tools and applications is an innovative reference source that examines relevant theoretical frameworks current practice guidelines industry standards and standardization and the latest empirical research findings in web services highlighting a range of topics such as cloud computing quality of service and semantic web this multi volume book is designed for computer engineers it specialists software designers professionals researchers and upper level students interested in web services architecture frameworks and

security

Proceedings of International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications

2024-02-12

artificial intelligence and machine learning are considered as hot technologies of this century as these technologies move from research labs to enterprise data centers the need for skilled professionals is continuously on the rise this book is intended for it and business professionals looking to gain proficiency in these technologies but are turned off by the complex mathematical equations this book is also useful for students in the area of artificial intelligence and machine learning to gain a conceptual understanding of the algorithms and get an industry perspective this book is an ideal place to start your journey as core concepts of machine learning algorithms are explained in plain english using illustrations data tables and examples intuitive meaning of the mathematics behind popular machine learning algorithms explained covers classical machine learning neural networks and deep learning algorithms at a time when the it industry is focusing on reskilling its vast human resources machine intelligence is a very timely publication it has a simple approach that builds up from basics which would help software engineers and students looking to learn about the field as well as those who might have started off without the benefit of a structured introduction or sound basics highly recommended siddhartha s founder and ceo of intain financial technology startup suresh has written a very accessible book for practitioners the book has depth yet avoids excessive mathematics the coverage of the subject is very good and has most of the concepts required for understanding machine learning if someone is looking for depth for senior management it will provide a good overview it is well written i highly recommend it whee teck ong ceo of trusted source and vp of singapore

computer society

Artificial Intelligence and Machine Learning–Powered Smart Finance

2018-12-07

this book provides a systematic and comprehensive overview of cognitive intelligence and ai enabled iot ecosystem and machine learning capable of recognizing the object pattern in complex and large data sets a remarkable success has been experienced in the last decade by emulating the brain computer interface it presents the applied cognitive science methods and ai enabled technologies that have played a vital role at the core of practical solutions for a wide scope of tasks between handheld apps and industrial process control autonomous vehicles iot intelligent learning environment game theory human computer interaction environmental policies life sciences playing computer games computational theory and engineering development the book contains contents highlighting artificial neural networks that are analogous to the networks of neurons that comprise the brain and have given computers the ability to distinguish an image of a cat from one of a coconut to spot pedestrians with enough accuracy to direct a self driving car and to recognize and respond to the spoken word the chapters in this book focus on audiences interested in artificial intelligence machine learning fuzzy cognitive and neurofuzzy inspired computational systems their theories mechanisms and architecture which underline human and animal behavior and their application to conscious and intelligent systems in the current version it focuses on the successful implementation and step by step execution and explanation of practical applications of the domain it also offers a wide range of inspiring and interesting cutting edge contributions on applications of machine learning artificial intelligence and cognitive science such as healthcare products ai enabled iot gaming medical and engineering overall this book provides valuable information on effective cutting edge techniques and approaches for students researchers

practitioners and academics in the field of machine learning and cognitive science furthermore the purpose of this book is to address the interests of a broad spectrum of practitioners students and researchers who are interested in applying machine learning and cognitive science methods in their respective domains

Web Services: Concepts, Methodologies, Tools, and Applications

2019-01-11

kickstart your emotion analysis journey with this step by step guide to data science success key features discover the inner workings of the end to end emotional analysis workflow explore the use of various ml models to derive meaningful insights from data hone your craft by building and tweaking complex emotion analysis models with practical projects purchase of the print or kindle book includes a free pdf ebook book descriptionartificial intelligence and machine learning are the technologies of the future and this is the perfect time to tap into their potential and add value to your business machine learning for emotion analysis in python helps you employ these cutting edge technologies in your customer feedback system and in turn grow your business exponentially with this book you ll take your foundational data science skills and grow them in the exciting realm of emotion analysis by following a practical approach you ll turn customer feedback into meaningful insights assisting you in making smart and data driven business decisions the book will help you understand how to preprocess data build a serviceable dataset and ensure top notch data quality once you re set up for success you ll explore complex ml techniques uncovering the concepts of deep neural networks support vector machines conditional probabilities and more finally you ll acquire practical knowledge using in depth use cases showing how the experimental results can be transformed into real life examples and how emotion mining can help track short and long term changes in public opinion by the end of this book you ll be well equipped to use

emotion mining and analysis to drive business decisions what you will learn distinguish between sentiment analysis and emotion analysis master data preprocessing and ensure high quality input expand the use of data sources through data transformation design models that employ cutting edge deep learning techniques discover how to tune your models hyperparameters explore the use of naive bayes svms dnns and transformers for advanced use cases practice your newly acquired skills by working on real world scenarios who this book is forthis book is for data scientists and python developers looking to gain insights into the customer feedback for their product company brand governorship and more basic knowledge of machine learning and python programming is a must

Machine Intelligence

2024-01-13

machine learning ml is a sub field of artificial intelligence that uses soft computing and algorithms to enable computers to learn on their own and identify patterns in observed data build models that explain the world and predict things without having explicit pre programmed rules and models this book discusses various applications of ml in engineering fields and the use of ml algorithms in solving challenging engineering problems ranging from biomedical transport supply chain and logistics to manufacturing and industrial through numerous case studies it will assist researchers and practitioners in selecting the correct options and strategies for managing organizational tasks

Modern Approaches in Machine Learning and Cognitive Science: A Walkthrough

2023-09-28

in the face of escalating environmental challenges such as climate change air and water pollution and natural disasters traditional approaches to understanding and addressing these issues have yet to be proven sufficient academic scholars are compelled to seek innovative solutions that marry digital intelligence and natural ecosystems reshaping environmental science through machine learning and iot serves as a comprehensive exploration into the transformative potential of machine learning ml and the internet of things iot to address critical environmental challenges the book establishes a robust foundation in ml and iot explaining their relevance to environmental science as the narrative unfolds it delves into diverse applications providing theoretical insights alongside practical knowledge from interpreting weather patterns to predicting air and water quality the book navigates through the intricate web of environmental complexities notably it unveils approaches to disaster management waste sorting and climate change monitoring showcasing the symbiotic relationship between digital intelligence and natural ecosystems this book is ideal for audiences from students and researchers to data scientists and disaster management professionals with a nuanced understanding of iot ml and artificial intelligence ai

Machine Learning for Emotion Analysis in Python

2023-01-09

in the last few years the scientific community has realized that obtaining a better understanding of interactions between natural systems and the man made environment across different scales demands more research efforts in remote sensing an integrated earth system observatory that merges surface based air borne space borne and even underground sensors with comprehensive and predictive capabilities indicates promise for revolutionizing the study of global water energy and carbon cycles as well as land use and land cover changes the aim of this book is to present a suite of relevant concepts tools and methods of integrated multisensor data fusion and

machine learning technologies to promote environmental sustainability the process of machine learning for intelligent feature extraction consists of regular deep and fast learning algorithms the niche for integrating data fusion and machine learning for remote sensing rests upon the creation of a new scientific architecture in remote sensing science that is designed to support numerical as well as symbolic feature extraction managed by several cognitively oriented machine learning tasks at finer scales by grouping a suite of satellites with similar nature in platform design data merging may come to help for cloudy pixel reconstruction over the space domain or concatenation of time series images over the time domain or even both simultaneously organized in 5 parts from fundamental principles of remote sensing feature extraction for remote sensing image and data fusion for remote sensing integrated data merging data reconstruction data fusion and machine learning to remote sensing for environmental decision analysis the book will be a useful reference for graduate students academic scholars and working professionals who are involved in the study of earth systems and the environment for a sustainable future the new knowledge in this book can be applied successfully in many areas of environmental science and engineering

Machine Learning Algorithms and Applications in Engineering

2024-05-06

communication and network technology has witnessed recent rapid development and numerous information services and applications have been developed globally these technologies have high impact on society and the way people are leading their lives the advancement in technology has undoubtedly improved the quality of service and user experience yet a lot needs to be still done some areas that still need improvement include seamless wide area coverage high capacity hot spots low power massive connections low latency and high reliability and so on thus it is highly desirable to develop smart technologies for communication to improve the overall services and management of

wireless communication machine learning and cognitive computing have converged to give some groundbreaking solutions for smart machines with these two technologies coming together the machines can acquire the ability to reason similar to the human brain the research area of machine learning and cognitive computing cover many fields like psychology biology signal processing physics information theory mathematics and statistics that can be used effectively for topology management therefore the utilization of machine learning techniques like data analytics and cognitive power will lead to better performance of communication and wireless systems

Reshaping Environmental Science Through Machine Learning and IoT

2018-02-21

this book presents high quality peer reviewed papers from international conference on advanced communications and machine intelligence mica 2022 organised by m kumarasamy college of engineering chennai tamil nadu india during 9 11 december 2022 the book includes all areas of advanced communications and machine intelligence the topics covered are network performance analysis data mining and warehousing parallel and distributed networks computational intelligence smart city applications big data analytics internet of things networks information management and wireless sensor networks the book is useful for academicians scientists researchers from industry research scholars and students working in these areas

Multisensor Data Fusion and Machine Learning for Environmental Remote Sensing

2020-07-08

this book explores several problems and their solutions regarding data analysis and prediction for industrial applications machine learning is a prominent topic in modern industries its influence can be felt in many aspects of everyday life as the world rapidly embraces big data and data analytics accordingly there is a pressing need for novel and innovative algorithms to help us find effective solutions in industrial application areas such as media healthcare travel finance and retail in all of these areas data is the crucial parameter and the main key to unlocking the value of industry the book presents a range of intelligent algorithms that can be used to filter useful information in the above mentioned application areas and efficiently solve particular problems its main objective is to raise awareness for this important field among students researchers and industrial practitioners

Machine Learning and Cognitive Computing for Mobile Communications and Wireless Networks

2023-07-25

Proceedings of International Conference on Advanced Communications and Machine Intelligence

2020-07-18

Machine Learning Algorithms for Industrial Applications

1969

The Digest Record

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