

Free read The predictive retailer making the retailer smart the predictive series (Download Only)

smart cities big data prediction methods and applications is the first reference to provide a comprehensive overview of smart cities with the latest big data predicting techniques this timely book discusses big data forecasting for smart cities it introduces big data forecasting techniques for the key aspects e g traffic environment building energy green grid etc of smart cities and explores three key areas that can be improved using big data prediction grid energy road traffic networks and environmental health in smart cities the big data prediction methods proposed in this book are highly significant in terms of the planning construction management control and development of green and smart cities including numerous case studies to explain each method and model this easy to understand book appeals to scientists engineers college students postgraduates teachers and managers from various fields of artificial intelligence smart cities smart grid intelligent traffic systems intelligent environments and big data computing predictive analytics refers to making predictions about the future based on different parameters which are historical data machine learning and artificial intelligence this book provides the most recent advances in the field along with case studies and real world examples it discusses predictive modeling and analytics in reliability engineering and introduces current achievements and applications of artificial intelligence data mining and other techniques in supply chain management it covers applications to reliability engineering practice presents numerous examples to illustrate the theoretical results and considers and analyses case studies and real word examples the book is written for researchers and practitioners in the field of system reliability quality supply chain management and logistics management students taking courses in

these areas will also find this book of interest predictive analysis in smart agriculture explores computational engineering techniques and applications in agriculture development recent technologies such as cloud computing iot big data and machine learning are focused on for smart agricultural engineering the book also provides a case oriented approach for iot based agricultural systems this book deals with all aspects of smart agriculture with state of the art predictive analysis in the complete 360 degree view spectrum the book includes the concepts of urban and vertical farming using agro iot systems and renewable energy sources for modern agriculture trends it discusses the real world challenges complexities in agro iot and advantages of incorporating smart technology it also presents the rapid advancement of the technologies in the existing agri model by applying the various techniques novel architectural solutions in smart agricultural engineering are the core aspects of this book several predictive analysis tools and smart agriculture are also incorporated this book can be used as a textbook for students in predictive analysis agriculture engineering precision farming and smart agriculture it can also be a reference book for practicing professionals in cloud computing iot big data machine learning and deep learning working on smart agriculture applications this book presents the outcome of the european project serena involving fourteen partners as international academics technological companies and industrial factories addressing the design and development of a plug n play end to end cloud architecture and enabling predictive maintenance of industrial equipment to be easily exploitable by small and medium manufacturing companies with a very limited data analytics experience perspectives and new opportunities to address open issues on predictive maintenance conclude the book with some interesting suggestions of future research directions to continue the growth of the manufacturing intelligence this book describes various methods and recent advances in predictive computing and information security it highlights various predictive application scenarios to discuss these breakthroughs in real world settings further it addresses state of art techniques and the design development and innovative use of technologies for enhancing predictive computing and information security coverage also includes the frameworks for e transportation and e health security techniques and algorithms for predictive computing and

information security based on internet of things and cloud computing as such the book offers a valuable resource for graduate students and researchers interested in exploring predictive modeling techniques and architectures to solve information security privacy and protection issues in future communication the predictive retailer is a retail company that utilizes the latest technological developments to deliver an exceptional personalized experience to each and every customer today technology such as ai machine learning augmented reality iot real time stream processing social media and wearables are altering the customer experience cx landscape and retailers need to jump aboard this fast moving technology or run the risk of being left out in the cold the predictive retailer reveals how these and other technologies can help shape the customer journey the book details how the five types of analytics descriptive diagnostic predictive prescriptive and edge analytics affect not only the customer journey but also just about every operating function of the retailer an iot connected retailer can make its operations smart connected devices can help with inventory optimization supply chain management labor management waste management as well as keep the retailer s data centers green and its energy use smart social media is no longer a vanity platform but rather it is a place to both connect with current customers as well as court new ones it is also a powerful branding channel that can be utilized to both understand a retailer s position in the market as well as a place to benchmark its position against its competitors today technology moves at break neck speed and it can offer the potential of anticipatory capabilities but it also comes with a confusing variety of technological terms big data cognitive computing cx data lakes hadoop kafka personalization spark etc etc the predictive retailer will help make sense of it all so that a retail executive can cut through the confusing technological jargon and understand why a spark based real time stream processing data stream might be preferable to a tibco streambase one or an ibm streaming analytics one this book will help retail executives break through the technological clutter so that they can deliver an unrivaled customer experience to each and every patron that comes through their doors fast technological advances have allowed investors and traders to make increasingly sophisticated analysis of market momentum the current trend in the financial world continues

towards momentum analysis and smart momentum builds on this to create a new and far more reliable method of momentum analysis called smart momentum this dependable technique has opened up new possibilities in investment strategy and this book looks at both the theory and the application the reader is guided through the techniques of smart momentum in clear accessible language hugh clark has vast investment experience and provides practical and proven examples of smart momentum in practice explains in a highly practical manner the totally new technique developed by the author contains a complete worked example of the whole technique today technology such as ai machine learning augmented reality iot real time stream processing social media psychometrics and wearables are radically altering the customer experience cx landscape sports books need to jump aboard this fast moving technology or run the risk of being left behind by their competitors the predictive sports book is a sports betting company that utilizes the latest technological developments to connect with their customers while delivering an exceptional personalized experience to each and every one of them the predictive sports book reveals how these and other technologies can help shape the customer journey the book details how the five types of analytics descriptive diagnostic predictive prescriptive and edge analytics affect not only the customer journey but also just about every operating function in the sports book an iot connected sports book can make its operations smart connected devices can help with inventory optimization labor management marketing and customer experience as well as keep its data centers green and its energy use smart social media is no longer a vanity platform but rather it is a place to both connect with current customers as well as court new ones the predictive sports book knows that social media can produce a healthy roi if done properly social media can also be utilized as a place to gauge a customers psychological profile it s amazing how much information there is in a facebook like or a twitter tweet the predictive sports book breaks down social media into its six different categories collaborative projects blogs and micros blogs content communities social networks virtual game worlds and virtual social worlds and shows sports books how to utilize each one to both market to individuals as well as to attain real time competitive intel the final chapter brings everything together explaining how ai ml hadoop data

lakes and real time streaming can turn a sports book s data into a treasure trove of information that can create powerful one to one customer relationships that patrons will recognize this book will help sports betting executives break through the technological clutter so that they can deliver an unrivaled customer experience to each and every one of their patrons to ensure that they keep coming through those front doors as well as onto their websites predictive intelligence in biomedical and health informatics focuses on imaging computer aided diagnosis and therapy as well as intelligent biomedical image processing and analysis it develops computational models methods and tools for biomedical engineering related to computer aided diagnostics cad computer aided surgery cas computational anatomy and bioinformatics large volumes of complex data are often a key feature of biomedical and engineering problems and computational intelligence helps to address such problems practical and validated solutions to hard biomedical and engineering problems can be developed by the applications of neural networks support vector machines reservoir computing evolutionary optimization biosignal processing pattern recognition methods and other techniques to address complex problems of the real world networks of today are going through a rapid evolution and there are many emerging areas of information networking and their applications heterogeneous networking supported by recent technological advances in low power wireless communications along with silicon integration of various functionalities such as sensing communications intelligence and actuations are emerging as a critically important disruptive computer class based on a new platform networking structure and interface that enable novel low cost and high volume applications several of such applications have been difficult to realize because of many interconnections problems to fulfill their large range of applications different kinds of networks need to collaborate and wired and next generation wireless systems should be integrated in order to develop high performance computing solutions to problems arising from the complexities of these networks this volume covers the theory design and applications of computer networks distributed computing and information systems the aim of the volume advanced information networking and applications is to provide latest research findings innovative research results methods and development

techniques from both theoretical and practical perspectives related to the emerging areas of information networking and applications the social internet of things sIoT has become a hot topic in academic research it employs the theory of social networks into the different levels of the internet of things IoTs and has brought new possibilities for the development of IoTs essentially the sIoT is a subset of IoTs it uses intelligent hardware and humans as the node a social network as the organization type the social relationship between things things and humans and between humans formatting research methods and models with social network characteristics to realize the connection service and application of the IoTs moreover sIoT is a form of realization of technology architecture and application of the IoTs using social network research methods it further promotes the integration between real world and virtual cyberspace contributes the realization of the IoTs expands the research scope of the social networking and provides a new solution for the specific problems of the IoTs consequently there is a tremendous need for researchers to have a comprehensive knowledge of the advances in sIoT this special issue is soliciting scientific research papers that can present a snapshot of the latest research status of sIoT this book constitutes the thoroughly refereed post competition proceedings of the AI OPS competition on large scale disk failure prediction conducted between february 7th and may 15 2020 on the alibaba cloud tianchi platform a dedicated workshop featuring the best performing teams of the competition was held at the 24th pacific asia conference on knowledge discovery and data mining pakdd 2020 in singapore in april 2019 due to the covid 19 pandemic the workshop was hosted online this book includes 13 selected contributions an introduction to dataset selected approaches of the competing teams and the competition summary describing the competition task practical challenges evaluation metrics etc this book grew out of the first symposium on the personal co located with cascon 2010 in markham ontario canada the purpose of the symposium was to bring together prominent researchers and practitioners from a diverse range of research areas relevant to the advancement of science and practice relating to the personal research on the personal is an outgrowth of the smart internet initiative which seeks to extend and transform the web to be centred on the user with the web as a calm platform

ubiquitously providing cognitive support to its user and his or her tasks as with the preceding
sitcon workshop held at cascon 2009 this symposium involved a multi disciplinary effort that
brought together researchers and practitioners in data integration web services modelling and
architecture human computer interaction predictive analytics cloud infrastructure semantics and
ontology and industrial application domains such as health care and finance the discussions
during the symposium dealt with different aspects of the architecture and functionality needed to
make the personal a reality after the symposium the authors reworked their presentations into
draft chapters that were submitted for peer evaluation and review every chapter went through two
rounds of reviewing by at least two independent expert reviewers and accepted chapters were
then revised and are presented in this book this book provides a complete picture of several
decision support tools for predictive maintenance these include embedding early anomaly fault
detection diagnosis and reasoning remaining useful life prediction fault prognostics quality
prediction and self reaction as well as optimization control and self healing techniques it shows
recent applications of these techniques within various types of industrial production utilities
equipment plants smart devices etc systems addressing several challenges in industry 4 0 and
different tasks dealing with big data streams internet of things specific infrastructures and tools
high system dynamics and non stationary environments applications discussed include production
and manufacturing systems renewable energy production and management maritime systems
power plants and turbines conditioning systems compressor valves induction motors flight
simulators railway infrastructures mobile robots cyber security and internet of things the
contributors go beyond state of the art by placing a specific focus on dynamic systems where it is
of utmost importance to update system and maintenance models on the fly to maintain their
predictive power optimized predictive models in health care using machine learning this book is a
comprehensive guide to developing and implementing optimized predictive models in healthcare
using machine learning and is a required resource for researchers healthcare professionals and
students who wish to know more about real time applications the book focuses on how humans
and computers interact to ever increasing levels of complexity and simplicity and provides content

on the theory of optimized predictive model design evaluation and user diversity predictive modeling a field of machine learning has emerged as a powerful tool in healthcare for identifying high risk patients predicting disease progression and optimizing treatment plans by leveraging data from various sources predictive models can help healthcare providers make informed decisions resulting in better patient outcomes and reduced costs other essential features of the book include provides detailed guidance on data collection and preprocessing emphasizing the importance of collecting accurate and reliable data explains how to transform raw data into meaningful features that can be used to improve the accuracy of predictive models gives a detailed overview of machine learning algorithms for predictive modeling in healthcare discussing the pros and cons of different algorithms and how to choose the best one for a specific application emphasizes validating and evaluating predictive models provides a comprehensive overview of validation and evaluation techniques and how to evaluate the performance of predictive models using a range of metrics discusses the challenges and limitations of predictive modeling in healthcare highlights the ethical and legal considerations that must be considered when developing predictive models and the potential biases that can arise in those models audience the book will be read by a wide range of professionals who are involved in healthcare data science and machine learning a practical handbook packed with expert advice on architectural considerations for designing solutions using sap btp to drive digital innovation purchase of the print or kindle book includes a free ebook in the pdf format key featuresguide your customers with proven architectural strategies and considerations on sap btp tackle challenges in building process and data integration across complex and hybrid landscapes discover sap btp services including visualizations practical business scenarios and more book description sap btp is the foundation of sap s intelligent and sustainable enterprise vision for its customers it s efficient agile and an enabler of innovation it s technically robust yet its superpower is its business centricity if you re involved in building it and business strategies it s essential to familiarize yourself with sap btp to see the big picture for digitalization with sap solutions similarly if you have design responsibilities for enterprise solutions learning sap btp is

crucial to produce effective and complete architecture designs this book teaches you about sap
btp in five parts first you ll see how sap btp is positioned in the intelligent enterprise in the
second part you ll learn the foundational elements of sap btp and find out how it operates the
next part covers integration architecture guidelines integration strategy considerations and
integration styles with sap s integration technologies later you ll learn how to use application
development capabilities to extend enterprise solutions for innovation and agility this part also
includes digital experience and process automation capabilities the last part covers how sap btp
can facilitate data to value use cases to produce actionable business insights by the end of this
sap book you ll be able to architect solutions using sap btp to deliver high business value what
you will learn explore value propositions and business processes enabled by sap s intelligent and
sustainable enterprise understand sap btp s foundational elements such as commercial and
account models discover services that can be part of solution designs to fulfill non functional
requirements get to grips with integration and extensibility services for building robust
solutions understand what sap btp offers for digital experience and process automation explore
data to value services that can help manage data and build analytics use cases who this book is
for this sap guide is for technical architects solutions architects and enterprise architects working
with sap solutions to drive digital transformation and innovation with sap btp some it background
and an understanding of basic cloud concepts is assumed working knowledge of the sap
ecosystem will also be beneficial by applying data analytics techniques and machine learning
algorithms to predict disease medical practitioners can more accurately diagnose and treat
patients however researchers face problems in identifying suitable algorithms for pre processing
transformations and the integration of clinical data in a single module as well as seeking different
ways to build and evaluate models the handbook of research on disease prediction through data
analytics and machine learning is a pivotal reference source that explores the application of
algorithms to making disease predictions through the identification of symptoms and information
retrieval from images such as mris ecgs eegs etc highlighting a wide range of topics including
clinical decision support systems biomedical image analysis and prediction models this book is

ideally designed for clinicians physicians programmers computer engineers it specialists data analysts hospital administrators researchers academicians and graduate and post graduate students this book gathers the proceedings of a symposium on the role of internet technologies and how they can transform and improve people s lives the internet is essentially a massive database where all types of information can be shared and transmitted this can be done passively in the form of non interactive websites and blogs or it can be done actively in the form of file sharing and document up and downloading thanks to these technologies a wealth of information is now available to anyone who can access the internet moreover internet technologies are constantly improving growing faster offering more diverse information and supporting processes that would have been impossible in the past as a result they have changed and will continue to change the way that the world does business and how people interact in their day to day lives in conclusion the symposium and these proceedings provide a valuable opportunity for leading researchers engineers and professionals around the globe to discuss the latest advances that are helping the world move forward they also facilitate the exchange of new ideas in the fields of communication technology to create a dialogue between these groups concerning the latest innovations trends and concerns practical challenges and potential solutions in the field of internet technologies the book emphasizes the predictive models of big data genetic algorithm and iot with a case study the book illustrates the predictive models with integrated fuel consumption models for smart and safe traveling the text is a coordinated amalgamation of research contributions and industrial applications in the field of intelligent transportation systems the advanced predictive models and research results were achieved with the case studies deployed in real transportation environments features provides a smart traffic congestion avoidance system with an integrated fuel consumption model predicts traffic in short term and regular this is illustrated with a case study efficient traffic light controller and deviation system in accordance with the traffic scenario iot based intelligent transport systems in a global perspective intelligent traffic light control system and ambulance control system provides a predictive framework that can handle the traffic on abnormal days such as weekends festival

holidays bunch of solutions and ideas for smart traffic development in smart cities this book focuses on advanced predictive models along with offering an efficient solution for smart traffic management system this book will give a brief idea of the available algorithms techniques of big data iot and genetic algorithm and guides in developing a solution for smart city applications this book will be a complete framework for its domain with the advanced concepts of big data analytics genetic algorithm and iot this book is primarily aimed at it professionals undergraduates graduates and researchers in the area of computer science and information technology will also find this book useful green computing and predictive analytics for healthcare excavates the rudimentary concepts of green computing big data and the internet of things along with the latest research development in the domain of healthcare it also covers various applications and case studies in the field of computer science with state of the art tools and technologies the rapid growth of the population is a challenging issue in maintaining and monitoring various experiences of quality of service in healthcare the coherent usage of these limited resources in connection with optimum energy consumption has been becoming more important the major healthcare nodes are gradually becoming internet of things enabled and sensors work data and the involvement of networking are creating smart campuses and smart houses the book includes chapters on the internet of things and big data technologies features biomedical data monitoring under the internet of things environment data sensing and analyzing big data analytics and clustering machine learning techniques for sudden cardiac death prediction robust brain tissue segmentation energy efficient and green internet of things for healthcare applications blockchain technology for the healthcare internet of things advanced healthcare for domestic medical tourism system edge computing for data analytics this book on green computing and predictive analytics for healthcare aims to promote and facilitate the exchange of research knowledge and findings across different disciplines on the design and investigation of healthcare data analytics it can also be used as a textbook for a master s course in biomedical engineering this book will also present new methods for medical data evaluation and the diagnosis of different diseases to improve quality of life in general and for better integration of internet of things into society dr sourav

banerjee is an assistant professor at the department of computer science and engineering of kalyani government engineering college kalyani west bengal india his research interests include big data cloud computing distributed computing and mobile communications dr chinmay chakraborty is an assistant professor at the department of electronics and communication engineering birla institute of technology mesra india his main research interests include the internet of medical things wban wireless networks telemedicine m health e health and medical imaging dr kousik dasgupta is an assistant professor at the department of computer science and engineering kalyani government engineering college india his research interests include computer vision ai ml cloud computing big data and security this thesis introduces a fully data driven approach for the prediction and optimization of critical electrical grid states due to poor power quality therefore a nonvolatile memory model for time series forecasting designed to profit especially from big data bases and complex pattern use cases as well as an artificial intelligence based smart demand side management framework to enable system inherent resources components for minimization of harmonic disturbances is applied to measured power grid scenarios as computing matures it is becoming increasingly obvious that a change is necessary for the manner in which web services interact with users server centric models are inconvenient for users a new paradigm smart interactions provides a web service architecture which is centered around the user s needs rather than the simplistic server view currently being used the system responds to the individual user and is able to adapt to changes to better serve the user the smart internet system helps the user accomplish their tasks efficiently and intuitively an important aspect of smart interactions is that of cognitive support which provides enhanced information and guidance to the system or user linked to the current task this thesis examines predictive analytics and its application to cognitive support in smart interactions and presents and evaluates a framework for using predictive analytic support within the smart internet model the second edition of this volume provides insight and practical illustrations on how modern statistical concepts and regression methods can be applied in medical prediction problems including diagnostic and prognostic outcomes many advances have been made in statistical approaches

towards outcome prediction but a sensible strategy is needed for model development validation and updating such that prediction models can better support medical practice there is an increasing need for personalized evidence based medicine that uses an individualized approach to medical decision making in this big data era there is expanded access to large volumes of routinely collected data and an increased number of applications for prediction models such as targeted early detection of disease and individualized approaches to diagnostic testing and treatment clinical prediction models presents a practical checklist that needs to be considered for development of a valid prediction model steps include preliminary considerations such as dealing with missing values coding of predictors selection of main effects and interactions for a multivariable model estimation of model parameters with shrinkage methods and incorporation of external data evaluation of performance and usefulness internal validation and presentation formatting the text also addresses common issues that make prediction models suboptimal such as small sample sizes exaggerated claims and poor generalizability the text is primarily intended for clinical epidemiologists and biostatisticians including many case studies and publicly available r code and data sets the book is also appropriate as a textbook for a graduate course on predictive modeling in diagnosis and prognosis while practical in nature the book also provides a philosophical perspective on data analysis in medicine that goes beyond predictive modeling updates to this new and expanded edition include a discussion of big data and its implications for the design of prediction models machine learning issues more simulations with missing y values extended discussion on between cohort heterogeneity description of shinyapp updated lasso illustration new case studies the intersection of technology and sustainability is with a particular focus on the concept of the circular economy efficient resource use and waste reduction are paramount concerns in today s world utilizing technology for sustainable resource management solutions provides a comprehensive overview of how technology can be harnessed to achieve sustainable resource management within the framework of a circular economy the book delves into various aspects of the circular economy it explores the principles that underpin it presents real world case studies that exemplify its successful implementation and discusses the role of

cutting edge technology which is instrumental in driving transformative change the book advances current research and examines the intricate link between technology and sustainability centered around the circular economy it propels readers into the heart of environmental sustainability presenting a compelling argument for adopting circular economy principles to mitigate resource depletion and environmental degradation through insightful case studies and theoretical foundations readers are empowered to drive environmentally responsible practices in their personal and professional spheres this book helps business leaders to integrate circular economy principles reduce waste and drive innovation fostering long term viability and competitiveness policymakers find a valuable resource for evidence based insights into technology s role in sustainable resource management aiding in developing regulations that balance economic growth with environmental stewardship in academic and educational circles the book has become an essential tool since agriculture is one of the key parameters in assessing the gross domestic product gdp of any country it has become crucial to transition from traditional agricultural practices to smart agriculture new agricultural technologies provide numerous opportunities to maximize crop yield by recognizing and analyzing diseases and other natural variables that may affect it therefore it is necessary to understand how computer assisted technologies can best be utilized and adopted in the conversion to smart agriculture modern techniques for agricultural disease management and crop yield prediction is an essential publication that widens the spectrum of computational methods that can aid in agriculture disease management weed detection and crop yield prediction featuring coverage on a wide range of topics such as soil and crop sensors swarm robotics and weed detection this book is ideally designed for environmentalists farmers botanists agricultural engineers computer engineers scientists researchers practitioners and students seeking current research on technology and techniques for agricultural diseases and predictive trends the novel coronavirus disease 2019 covid 19 pandemic has posed a major threat to human life and health this book is beneficial for interdisciplinary students researchers and professionals to understand covid 19 and how computational intelligence can be used for the purpose of surveillance control prevention

prediction diagnosis and potential treatment of the disease the book contains different aspects of covid 19 that includes fundamental knowledge epidemic forecast models surveillance and tracking systems iot and iomt based integrated systems for covid 19 social network analysis systems for covid 19 radiological images ct x ray based diagnosis system and computational intelligence and in silico drug design and drug repurposing methods against covid 19 patients the contributing authors of this volume are experts in their fields and they are from various reputed universities and institutions across the world this volume is a valuable and comprehensive resource for computer and data scientists epidemiologists radiologists doctors clinicians pharmaceutical professionals along with graduate and research students of interdisciplinary and multidisciplinary sciences this book focuses on the comprehensive prevention and control methods for short circuit faults in power systems based on the quantification method of power system short circuit fault risk considering extreme meteorological disasters this book carries out theoretical research on optimal control of power system short circuit faults at the planning and operation levels the establishment of a comprehensive index system for short circuit safety level of large power grids from several sides and the realization of a panoramic display of consequences of short circuit faults in power grids are one of the features of this book which are especially suitable for readers interested in learning about short circuit fault solutions in power systems this book can benefit researchers engineers and graduate students in the fields of electrical engineering power electronics and energy engineering amid the dynamic growth of artificial intelligence this book presents a collection of findings and advancements from the second edition of the a2ia artificial intelligence and industrial applications conference the conference hosted by ensam meknès at moulay ismail university morocco fosters knowledge exchange in ai focusing primarily on its industrial applications covering a wide range of topics the book highlights the adaptable nature of ai and its increasing impact on industrial sectors it brings together contributions from an international cohort of researchers discussing themes such as intelligent manufacturing and maintenance intelligent supply chain management various modes of learning including supervised unsupervised reinforcement semi supervised and graph based as

well as neural networks deep learning planning and optimization a defining feature of this edition is its extensive scope and emphasis on the practical applications of ai along with its foundational elements it facilitates an understanding of ai s current state and potential future direction showcasing recent developments that bridge the gap between theory and practice designed for a diverse readership this book is of interest to ai practitioners academics and enthusiasts as well as to those new to the field it provides an opportunity to explore ai s critical role in industrial applications and the practical insights it offers are likely to be beneficial for decision making within industrial settings increasingly it is being recognized that consumer behavior may be a key trigger in the march toward sustainable development several lines of psychological theory and approaches have been developed relatively independently each of which may provide major implications and action points on how consumers might be moved toward more sustainable behavior this book is the first that brings together this variety of perspectives and theoretical angles around the common ambition of sustainable development the contributors are all leading social scientists in the field of consumer behavior who met the challenge to sketch out their theoretical perspectives but also to go beyond their normal theorizing and think out of the box in order to show how these theoretical perspectives might be made actionable in terms of key managerial and policy perspectives toward sustainable development the result is a book that shows a wealth of information and approaches the question of how to encourage sustainable behavior from a myriad of divergent perspectives this should stimulate scientists and policy makers alike to find similarities differences and synergies between state of the art psychological thinking about how to most effectively stimulate sustainable consumer behavior a number of approaches are being defined for statistics and machine learning these approaches are used for the identification of the process of the system and the models created from the system s perceived data assisting scientists in the generation or refinement of current models machine learning is being studied extensively in science particularly in bioinformatics economics social sciences ecology and climate science but learning from data individually needs to be researched more for complex scenarios advanced knowledge representation approaches that can capture

structural and process properties are necessary to provide meaningful knowledge to machine learning algorithms it has a significant impact on comprehending difficult scientific problems prediction and analysis for knowledge representation and machine learning demonstrates various knowledge representation and machine learning methodologies and architectures that will be active in the research field the approaches are reviewed with real life examples from a wide range of research topics an understanding of a number of techniques and algorithms that are implemented in knowledge representation in machine learning is available through the book s website features examines the representational adequacy of needed knowledge representation manipulates inferential adequacy for knowledge representation in order to produce new knowledge derived from the original information improves inferential and acquisition efficiency by applying automatic methods to acquire new knowledge covers the major challenges concerns and breakthroughs in knowledge representation and machine learning using the most up to date technology describes the ideas of knowledge representation and related technologies as well as their applications in order to help humankind become better and smarter this book serves as a reference book for researchers and practitioners who are working in the field of information technology and computer science in knowledge representation and machine learning for both basic and advanced concepts nowadays it has become essential to develop adaptive robust scalable and reliable applications and also design solutions for day to day problems the edited book will be helpful for industry people and will also help beginners as well as high level users for learning the latest things which includes both basic and advanced concepts enter the world of internet of things with the power of data science with this highly practical engaging book about this book explore real world use cases from the internet of things iot domain using decision science with this easy to follow practical book learn to make smarter decisions on top of your iot solutions so that your iot is smart in a real sense this highly practical example rich guide fills the gap between your knowledge of data science and iot who this book is for if you have a basic programming experience with r and want to solve business use cases in iot using decision science then this book is for you even if your re a non technical manager anchoring iot projects

you can skip the code and still benefit from the book what you will learn explore decision science with respect to iot get to know the end to end analytics stack descriptive inquisitive predictive prescriptive solve problems in iot connected assets and connected operations design and solve real life iot business use cases using cutting edge machine learning techniques synthesize and assimilate results to form the perfect story for a business master the art of problem solving when iot meets decision science using a variety of statistical and machine learning techniques along with hands on tasks in r in detail with an increasing number of devices getting connected to the internet massive amounts of data are being generated that can be used for analysis this book helps you to understand internet of things in depth and decision science and solve business use cases with iot the frequency and impact of the problem is huge addressing a problem with such a huge impact requires a very structured approach the entire journey of addressing the problem by defining it designing the solution and executing it using decision science is articulated in this book through engaging and easy to understand business use cases you will get a detailed understanding of iot decision science and the art of solving a business problem in iot through decision science by the end of this book you ll have an understanding of the complex aspects of decision making in iot and will be able to take that knowledge with you onto whatever project calls for it style and approach this scenario based tutorial approaches the topic systematically allowing you to build upon what you learned in previous chapters

Smart Cities: Big Data Prediction Methods and Applications

2020-03-25

smart cities big data prediction methods and applications is the first reference to provide a comprehensive overview of smart cities with the latest big data predicting techniques this timely book discusses big data forecasting for smart cities it introduces big data forecasting techniques for the key aspects e g traffic environment building energy green grid etc of smart cities and explores three key areas that can be improved using big data prediction grid energy road traffic networks and environmental health in smart cities the big data prediction methods proposed in this book are highly significant in terms of the planning construction management control and development of green and smart cities including numerous case studies to explain each method and model this easy to understand book appeals to scientists engineers college students postgraduates teachers and managers from various fields of artificial intelligence smart cities smart grid intelligent traffic systems intelligent environments and big data computing

Data-Driven Cognitive Manufacturing – Applications in Predictive Maintenance and Zero Defect Manufacturing

2021-03-10

predictive analytics refers to making predictions about the future based on different parameters which are historical data machine learning and artificial intelligence this book provides the most recent advances in the field along with case studies and real world examples it discusses predictive modeling and analytics in reliability engineering and introduces current achievements and applications of artificial intelligence data mining and other techniques in supply chain management it covers applications to reliability engineering practice presents numerous examples to illustrate the theoretical results and considers and analyses case studies and real

word examples the book is written for researchers and practitioners in the field of system reliability quality supply chain management and logistics management students taking courses in these areas will also find this book of interest

Predictive Analytics

2021-01-13

predictive analysis in smart agriculture explores computational engineering techniques and applications in agriculture development recent technologies such as cloud computing iot big data and machine learning are focused on for smart agricultural engineering the book also provides a case oriented approach for iot based agricultural systems this book deals with all aspects of smart agriculture with state of the art predictive analysis in the complete 360 degree view spectrum the book includes the concepts of urban and vertical farming using agro iot systems and renewable energy sources for modern agriculture trends it discusses the real world challenges complexities in agro iot and advantages of incorporating smart technology it also presents the rapid advancement of the technologies in the existing agri model by applying the various techniques novel architectural solutions in smart agricultural engineering are the core aspects of this book several predictive analysis tools and smart agriculture are also incorporated this book can be used as a textbook for students in predictive analysis agriculture engineering precision farming and smart agriculture it can also be a reference book for practicing professionals in cloud computing iot big data machine learning and deep learning working on smart agriculture applications

Predictive Analytics in Smart Agriculture

2023-12-18

this book presents the outcome of the european project serena involving fourteen partners as

international academics technological companies and industrial factories addressing the design and development of a plug n play end to end cloud architecture and enabling predictive maintenance of industrial equipment to be easily exploitable by small and medium manufacturing companies with a very limited data analytics experience perspectives and new opportunities to address open issues on predictive maintenance conclude the book with some interesting suggestions of future research directions to continue the growth of the manufacturing intelligence

Model Predictive Control for Smart Energy Systems

2014

this book describes various methods and recent advances in predictive computing and information security it highlights various predictive application scenarios to discuss these breakthroughs in real world settings further it addresses state of art techniques and the design development and innovative use of technologies for enhancing predictive computing and information security coverage also includes the frameworks for etransportation and ehealth security techniques and algorithms for predictive computing and information security based on internet of things and cloud computing as such the book offers a valuable resource for graduate students and researchers interested in exploring predictive modeling techniques and architectures to solve information security privacy and protection issues in future communication

Predictive Maintenance in Smart Factories

2021-08-26

the predictive retailer is a retail company that utilizes the latest technological developments to deliver an exceptional personalized experience to each and every customer today technology such as ai machine learning augmented reality iot real time stream processing social media and wearables are altering the customer experience cx landscape and retailers need to jump aboard

this fast moving technology or run the risk of being left out in the cold the predictive retailer reveals how these and other technologies can help shape the customer journey the book details how the five types of analytics descriptive diagnostic predictive prescriptive and edge analytics affect not only the customer journey but also just about every operating function of the retailer an iot connected retailer can make its operations smart connected devices can help with inventory optimization supply chain management labor management waste management as well as keep the retailer s data centers green and its energy use smart social media is no longer a vanity platform but rather it is a place to both connect with current customers as well as court new ones it is also a powerful branding channel that can be utilized to both understand a retailer s position in the market as well as a place to benchmark its position against its competitors today technology moves at break neck speed and it can offer the potential of anticipatory capabilities but it also comes with a confusing variety of technological terms big data cognitive computing cx data lakes hadoop kafka personalization spark etc etc the predictive retailer will help make sense of it all so that a retail executive can cut through the confusing technological jargon and understand why a spark based real time stream processing data stream might be preferable to a tibco streambase one or an ibm streaming analytics one this book will help retail executives break through the technological clutter so that they can deliver an unrivaled customer experience to each and every patron that comes through their doors

Predictive Computing and Information Security

2017-09-27

fast technological advances have allowed investors and traders to make increasingly sophisticated analysis of market momentum the current trend in the financial world continues towards momentum analysis and smart momentum builds on this to create a new and far more reliable method of momentum analysis called smart momentum this dependable technique has opened up new possibilities in investment strategy and this book looks at both the theory and the

application the reader is guided through the techniques of smart momentum in clear accessible language hugh clark has vast investment experience and provides practical and proven examples of smart momentum in practice explains in a highly practical manner the totally new technique developed by the author contains a complete worked example of the whole technique

PhD.

2014

today technology such as ai machine learning augmented reality iot real time stream processing social media psychometrics and wearables are radically altering the customer experience cx landscape sports books need to jump aboard this fast moving technology or run the risk of being left behind by their competitors the predictive sports book is a sports betting company that utilizes the latest technological developments to connect with their customers while delivering an exceptional personalized experience to each and every one of them the predictive sports book reveals how these and other technologies can help shape the customer journey the book details how the five types of analytics descriptive diagnostic predictive prescriptive and edge analytics affect not only the customer journey but also just about every operating function in the sports book an iot connected sports book can make its operations smart connected devices can help with inventory optimization labor management marketing and customer experience as well as keep its data centers green and its energy use smart social media is no longer a vanity platform but rather it is a place to both connect with current customers as well as court new ones the predictive sports book knows that social media can produce a healthy roi if done properly social media can also be utilized as a place to gauge a customers psychological profile it s amazing how much information there is in a facebook like or a twitter tweet the predictive sports book breaks down social media into its six different categories collaborative projects blogs and micros blogs content communities social networks virtual game worlds and virtual social worlds and shows sports books how to utilize each one to both market to individuals as well as to attain real

time competitive intel the final chapter brings everything together explaining how ai ml hadoop data lakes and real time streaming can turn a sports book s data into a treasure trove of information that can create powerful one to one customer relationships that patrons will recognize this book will help sports betting executives break through the technological clutter so that they can deliver an unrivaled customer experience to each and every one of their patrons to ensure that they keep coming through those front doors as well as onto their websites

The Predictive Retailer

2017-10-23

predictive intelligence in biomedical and health informatics focuses on imaging computer aided diagnosis and therapy as well as intelligent biomedical image processing and analysis it develops computational models methods and tools for biomedical engineering related to computer aided diagnostics cad computer aided surgery cas computational anatomy and bioinformatics large volumes of complex data are often a key feature of biomedical and engineering problems and computational intelligence helps to address such problems practical and validated solutions to hard biomedical and engineering problems can be developed by the applications of neural networks support vector machines reservoir computing evolutionary optimization biosignal processing pattern recognition methods and other techniques to address complex problems of the real world

Smart Momentum

2001-08-08

networks of today are going through a rapid evolution and there are many emerging areas of information networking and their applications heterogeneous networking supported by recent technological advances in low power wireless communications along with silicon integration of

various functionalities such as sensing communications intelligence and actuations are emerging as a critically important disruptive computer class based on a new platform networking structure and interface that enable novel low cost and high volume applications several of such applications have been difficult to realize because of many interconnections problems to fulfill their large range of applications different kinds of networks need to collaborate and wired and next generation wireless systems should be integrated in order to develop high performance computing solutions to problems arising from the complexities of these networks this volume covers the theory design and applications of computer networks distributed computing and information systems the aim of the volume advanced information networking and applications is to provide latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and applications

The Predictive Sports Book

2018-01-31

the social internet of things siot has become a hot topic in academic research it employs the theory of social networks into the different levels of the internet of things iots and has brought new possibilities for the development of iots essentially the siot is a subset of iots it uses intelligent hardware and humans as the node a social network as the organization type the social relationship between things things and humans and between humans formatting research methods and models with social network characteristics to realize the connection service and application of the iots moreover siot is a form of realization of technology architecture and application of the iots using social network research methods it further promotes the integration between real world and virtual cyberspace contributes the realization of the iots expands the research scope of the social networking and provides a new solution for the specific problems of the iots consequently there is a tremendous need for researchers to have a comprehensive

knowledge of the advances in siot this special issue is soliciting scientific research papers that can present a snapshot of the latest research status of siot

Proceedings of World Conference on Information Systems for Business Management

2020-10-12

this book constitutes the thoroughly refereed post competition proceedings of the ai ops competition on large scale disk failure prediction conducted between february 7th and may 15 2020 on the alibaba cloud tianchi platform a dedicated workshop featuring the best performing teams of the competition was held at the 24th pacific asia conference on knowledge discovery and data mining pakdd 2020 in singapore in april 2019 due to the covid 19 pandemic the workshop was hosted online this book includes 13 selected contributions an introduction to dataset selected approaches of the competing teams and the competition summary describing the competition task practical challenges evaluation metrics etc

Predictive Intelligence in Biomedical and Health Informatics

2023-03-14

this book grew out of the first symposium on the personal co located with cascon 2010 in markham ontario canada the purpose of the symposium was to bring together prominent researchers and practitioners from a diverse range of research areas relevant to the advancement of science and practice relating to the personal research on the personal is an outgrowth of the smart internet initiative which seeks to extend and transform the web to be centred on the user with the web as a calm platform ubiquitously providing cognitive support to its user and his or her tasks as with the preceding sitcon workshop held at cascon 2009 this

symposium involved a multi disciplinary effort that brought together researchers and practitioners in data integration web services modelling and architecture human computer interaction predictive analytics cloud infrastructure semantics and ontology and industrial application domains such as health care and finance the discussions during the symposium dealt with different aspects of the architecture and functionality needed to make the personal a reality after the symposium the authors reworked their presentations into draft chapters that were submitted for peer evaluation and review every chapter went through two rounds of reviewing by at least two independent expert reviewers and accepted chapters were then revised and are presented in this book

Advanced Information Networking and Applications

2023-04-19

this book provides a complete picture of several decision support tools for predictive maintenance these include embedding early anomaly fault detection diagnosis and reasoning remaining useful life prediction fault prognostics quality prediction and self reaction as well as optimization control and self healing techniques it shows recent applications of these techniques within various types of industrial production utilities equipment plants smart devices etc systems addressing several challenges in industry 4 0 and different tasks dealing with big data streams internet of things specific infrastructures and tools high system dynamics and non stationary environments applications discussed include production and manufacturing systems renewable energy production and management maritime systems power plants and turbines conditioning systems compressor valves induction motors flight simulators railway infrastructures mobile robots cyber security and internet of things the contributors go beyond state of the art by placing a specific focus on dynamic systems where it is of utmost importance to update system and maintenance models on the fly to maintain their predictive power

Advances in SloT (Social Internet of Things)

2020-08-05

optimized predictive models in health care using machine learning this book is a comprehensive guide to developing and implementing optimized predictive models in healthcare using machine learning and is a required resource for researchers healthcare professionals and students who wish to know more about real time applications the book focuses on how humans and computers interact to ever increasing levels of complexity and simplicity and provides content on the theory of optimized predictive model design evaluation and user diversity predictive modeling a field of machine learning has emerged as a powerful tool in healthcare for identifying high risk patients predicting disease progression and optimizing treatment plans by leveraging data from various sources predictive models can help healthcare providers make informed decisions resulting in better patient outcomes and reduced costs other essential features of the book include provides detailed guidance on data collection and preprocessing emphasizing the importance of collecting accurate and reliable data explains how to transform raw data into meaningful features that can be used to improve the accuracy of predictive models gives a detailed overview of machine learning algorithms for predictive modeling in healthcare discussing the pros and cons of different algorithms and how to choose the best one for a specific application emphasizes validating and evaluating predictive models provides a comprehensive overview of validation and evaluation techniques and how to evaluate the performance of predictive models using a range of metrics discusses the challenges and limitations of predictive modeling in healthcare highlights the ethical and legal considerations that must be considered when developing predictive models and the potential biases that can arise in those models audience the book will be read by a wide range of professionals who are involved in healthcare data science and machine learning

Intelligent Predictive Maintenance

2013-07-15

a practical handbook packed with expert advice on architectural considerations for designing solutions using sap btp to drive digital innovation purchase of the print or kindle book includes a free ebook in the pdf format key featuresguide your customers with proven architectural strategies and considerations on sap btptackle challenges in building process and data integration across complex and hybrid landscapesdiscover sap btp services including visualizations practical business scenarios and morebook description sap btp is the foundation of sap s intelligent and sustainable enterprise vision for its customers it s efficient agile and an enabler of innovation it s technically robust yet its superpower is its business centricity if you re involved in building it and business strategies it s essential to familiarize yourself with sap btp to see the big picture for digitalization with sap solutions similarly if you have design responsibilities for enterprise solutions learning sap btp is crucial to produce effective and complete architecture designs this book teaches you about sap btp in five parts first you ll see how sap btp is positioned in the intelligent enterprise in the second part you ll learn the foundational elements of sap btp and find out how it operates the next part covers integration architecture guidelines integration strategy considerations and integration styles with sap s integration technologies later you ll learn how to use application development capabilities to extend enterprise solutions for innovation and agility this part also includes digital experience and process automation capabilities the last part covers how sap btp can facilitate data to value use cases to produce actionable business insights by the end of this sap book you ll be able to architect solutions using sap btp to deliver high business value what you will learnexplore value propositions and business processes enabled by sap s intelligent and sustainable enterpriseunderstand sap btp s foundational elements such as commercial and account modelsdiscover services that can be part of solution designs to fulfill non functional requirementsget to grips with integration and

extensibility services for building robust solutions understand what sap btp offers for digital experience and process automation explore data to value services that can help manage data and build analytics use cases who this book is for this sap guide is for technical architects solutions architects and enterprise architects working with sap solutions to drive digital transformation and innovation with sap btp some it background and an understanding of basic cloud concepts is assumed working knowledge of the sap ecosystem will also be beneficial

Large-Scale Disk Failure Prediction

2019-02-28

by applying data analytics techniques and machine learning algorithms to predict disease medical practitioners can more accurately diagnose and treat patients however researchers face problems in identifying suitable algorithms for pre processing transformations and the integration of clinical data in a single module as well as seeking different ways to build and evaluate models the handbook of research on disease prediction through data analytics and machine learning is a pivotal reference source that explores the application of algorithms to making disease predictions through the identification of symptoms and information retrieval from images such as mris ecgs eegs etc highlighting a wide range of topics including clinical decision support systems biomedical image analysis and prediction models this book is ideally designed for clinicians physicians programmers computer engineers it specialists data analysts hospital administrators researchers academicians and graduate and post graduate students

The Personal Web

2024-02-08

this book gathers the proceedings of a symposium on the role of internet technologies and how they can transform and improve people s lives the internet is essentially a massive database

where all types of information can be shared and transmitted this can be done passively in the form of non interactive websites and blogs or it can be done actively in the form of file sharing and document up and downloading thanks to these technologies a wealth of information is now available to anyone who can access the internet moreover internet technologies are constantly improving growing faster offering more diverse information and supporting processes that would have been impossible in the past as a result they have changed and will continue to change the way that the world does business and how people interact in their day to day lives in conclusion the symposium and these proceedings provide a valuable opportunity for leading researchers engineers and professionals around the globe to discuss the latest advances that are helping the world move forward they also facilitate the exchange of new ideas in the fields of communication technology to create a dialogue between these groups concerning the latest innovations trends and concerns practical challenges and potential solutions in the field of internet technologies

Predictive Maintenance in Dynamic Systems

2022-10-28

the book emphasizes the predictive models of big data genetic algorithm and iot with a case study the book illustrates the predictive models with integrated fuel consumption models for smart and safe traveling the text is a coordinated amalgamation of research contributions and industrial applications in the field of intelligent transportation systems the advanced predictive models and research results were achieved with the case studies deployed in real transportation environments features provides a smart traffic congestion avoidance system with an integrated fuel consumption model predicts traffic in short term and regular this is illustrated with a case study efficient traffic light controller and deviation system in accordance with the traffic scenario iot based intelligent transport systems in a global perspective intelligent traffic light control system and ambulance control system provides a predictive framework that can handle the traffic on abnormal days such as weekends festival holidays bunch of solutions and ideas for smart traffic

development in smart cities this book focuses on advanced predictive models along with offering an efficient solution for smart traffic management system this book will give a brief idea of the available algorithms techniques of big data iot and genetic algorithm and guides in developing a solution for smart city applications this book will be a complete framework for its domain with the advanced concepts of big data analytics genetic algorithm and iot this book is primarily aimed at it professionals undergraduates graduates and researchers in the area of computer science and information technology will also find this book useful

Optimized Predictive Models in Health Care Using Machine

Learning

2020-10-16

green computing and predictive analytics for healthcare excavates the rudimentary concepts of green computing big data and the internet of things along with the latest research development in the domain of healthcare it also covers various applications and case studies in the field of computer science with state of the art tools and technologies the rapid growth of the population is a challenging issue in maintaining and monitoring various experiences of quality of service in healthcare the coherent usage of these limited resources in connection with optimum energy consumption has been becoming more important the major healthcare nodes are gradually becoming internet of things enabled and sensors work data and the involvement of networking are creating smart campuses and smart houses the book includes chapters on the internet of things and big data technologies features biomedical data monitoring under the internet of things environment data sensing and analyzing big data analytics and clustering machine learning techniques for sudden cardiac death prediction robust brain tissue segmentation energy efficient and green internet of things for healthcare applications blockchain technology for the healthcare internet of things advanced healthcare for domestic medical tourism system edge computing for

data analytics this book on green computing and predictive analytics for healthcare aims to promote and facilitate the exchange of research knowledge and findings across different disciplines on the design and investigation of healthcare data analytics it can also be used as a textbook for a master s course in biomedical engineering this book will also present new methods for medical data evaluation and the diagnosis of different diseases to improve quality of life in general and for better integration of internet of things into society dr sourav banerjee is an assistant professor at the department of computer science and engineering of kalyani government engineering college kalyani west bengal india his research interests include big data cloud computing distributed computing and mobile communications dr chinmay chakraborty is an assistant professor at the department of electronics and communication engineering birla institute of technology mesra india his main research interests include the internet of medical things wban wireless networks telemedicine m health e health and medical imaging dr kousik dasgupta is an assistant professor at the department of computer science and engineering kalyani government engineering college india his research interests include computer vision ai ml cloud computing big data and security

Architecting Solutions with SAP Business Technology Platform

2019-05-15

this thesis introduces a fully data driven approach for the prediction and optimization of critical electrical grid states due to poor power quality therefore a nonvolatile memory model for time series forecasting designed to profit especially from big data bases and complex pattern use cases as well as an artificial intelligence based smart demand side management framework to enable system inherent resources components for minimization of harmonic disturbances is applied to measured power grid scenarios

Handbook of Research on Disease Prediction Through Data

Analytics and Machine Learning

2022-03-28

as computing matures it is becoming increasingly obvious that a change is necessary for the manner in which web services interact with users server centric models are inconvenient for users a new paradigm smart interactions provides a web service architecture which is centered around the user s needs rather than the simplistic server view currently being used the system responds to the individual user and is able to adapt to changes to better serve the user the smart internet system helps the user accomplish their tasks efficiently and intuitively an important aspect of smart interactions is that of cognitive support which provides enhanced information and guidance to the system or user linked to the current task this thesis examines predictive analytics and its application to cognitive support in smart interactions and presents and evaluates a framework for using predictive analytic support within the smart internet model

Proceedings of the 3rd International Symposium of Information and Internet Technology (SYMINTECH 2018)

2019-07-15

the second edition of this volume provides insight and practical illustrations on how modern statistical concepts and regression methods can be applied in medical prediction problems including diagnostic and prognostic outcomes many advances have been made in statistical approaches towards outcome prediction but a sensible strategy is needed for model development validation and updating such that prediction models can better support medical practice there is an increasing need for personalized evidence based medicine that uses an individualized

approach to medical decision making in this big data era there is expanded access to large volumes of routinely collected data and an increased number of applications for prediction models such as targeted early detection of disease and individualized approaches to diagnostic testing and treatment clinical prediction models presents a practical checklist that needs to be considered for development of a valid prediction model steps include preliminary considerations such as dealing with missing values coding of predictors selection of main effects and interactions for a multivariable model estimation of model parameters with shrinkage methods and incorporation of external data evaluation of performance and usefulness internal validation and presentation formatting the text also addresses common issues that make prediction models suboptimal such as small sample sizes exaggerated claims and poor generalizability the text is primarily intended for clinical epidemiologists and biostatisticians including many case studies and publicly available r code and data sets the book is also appropriate as a textbook for a graduate course on predictive modeling in diagnosis and prognosis while practical in nature the book also provides a philosophical perspective on data analysis in medicine that goes beyond predictive modeling updates to this new and expanded edition include a discussion of big data and its implications for the design of prediction models machine learning issues more simulations with missing y values extended discussion on between cohort heterogeneity description of shinyapp updated lasso illustration new case studies

Advanced Intelligent Predictive Models for Urban Transportation

2020-12-10

the intersection of technology and sustainability is with a particular focus on the concept of the circular economy efficient resource use and waste reduction are paramount concerns in today's world utilizing technology for sustainable resource management solutions provides a comprehensive overview of how technology can be harnessed to achieve sustainable resource management within the framework of a circular economy the book delves into various aspects of

the circular economy it explores the principles that underpin it presents real world case studies that exemplify its successful implementation and discusses the role of cutting edge technology which is instrumental in driving transformative change the book advances current research and examines the intricate link between technology and sustainability centered around the circular economy it propels readers into the heart of environmental sustainability presenting a compelling argument for adopting circular economy principles to mitigate resource depletion and environmental degradation through insightful case studies and theoretical foundations readers are empowered to drive environmentally responsible practices in their personal and professional spheres this book helps business leaders to integrate circular economy principles reduce waste and drive innovation fostering long term viability and competitiveness policymakers find a valuable resource for evidence based insights into technology s role in sustainable resource management aiding in developing regulations that balance economic growth with environmental stewardship in academic and educational circles the book has become an essential tool

Predictive Analytics for Energy Efficiency and Energy Retailing

2023-12-29

since agriculture is one of the key parameters in assessing the gross domestic product gdp of any country it has become crucial to transition from traditional agricultural practices to smart agriculture new agricultural technologies provide numerous opportunities to maximize crop yield by recognizing and analyzing diseases and other natural variables that may affect it therefore it is necessary to understand how computer assisted technologies can best be utilized and adopted in the conversion to smart agriculture modern techniques for agricultural disease management and crop yield prediction is an essential publication that widens the spectrum of computational methods that can aid in agriculture disease management weed detection and crop yield prediction featuring coverage on a wide range of topics such as soil and crop sensors swarm robotics and weed detection this book is ideally designed for environmentalists farmers botanists

agricultural engineers computer engineers scientists researchers practitioners and students seeking current research on technology and techniques for agricultural diseases and predictive trends

Green Computing and Predictive Analytics for Healthcare

2011

the novel coronavirus disease 2019 covid 19 pandemic has posed a major threat to human life and health this book is beneficial for interdisciplinary students researchers and professionals to understand covid 19 and how computational intelligence can be used for the purpose of surveillance control prevention prediction diagnosis and potential treatment of the disease the book contains different aspects of covid 19 that includes fundamental knowledge epidemic forecast models surveillance and tracking systems iot and iomt based integrated systems for covid 19 social network analysis systems for covid 19 radiological images ct x ray based diagnosis system and computational intelligence and in silico drug design and drug repurposing methods against covid 19 patients the contributing authors of this volume are experts in their fields and they are from various reputed universities and institutions across the world this volume is a valuable and comprehensive resource for computer and data scientists epidemiologists radiologists doctors clinicians pharmaceutical professionals along with graduate and research students of interdisciplinary and multidisciplinary sciences

Artificial Intelligence supported Power Quality Prediction and Mitigation

2019-07-22

this book focuses on the comprehensive prevention and control methods for short circuit faults in

power systems based on the quantification method of power system short circuit fault risk considering extreme meteorological disasters this book carries out theoretical research on optimal control of power system short circuit faults at the planning and operation levels the establishment of a comprehensive index system for short circuit safety level of large power grids from several sides and the realization of a panoramic display of consequences of short circuit faults in power grids are one of the features of this book which are especially suitable for readers interested in learning about short circuit fault solutions in power systems this book can benefit researchers engineers and graduate students in the fields of electrical engineering power electronics and energy engineering

PASIF A Framework for Supporting Smart Interactions with Predictive Analytics

2024-07-18

amid the dynamic growth of artificial intelligence this book presents a collection of findings and advancements from the second edition of the a2ia artificial intelligence and industrial applications conference the conference hosted by ensam meknès at moulay ismail university morocco fosters knowledge exchange in ai focusing primarily on its industrial applications covering a wide range of topics the book highlights the adaptable nature of ai and its increasing impact on industrial sectors it brings together contributions from an international cohort of researchers discussing themes such as intelligent manufacturing and maintenance intelligent supply chain management various modes of learning including supervised unsupervised reinforcement semi supervised and graph based as well as neural networks deep learning planning and optimization a defining feature of this edition is its extensive scope and emphasis on the practical applications of ai along with its foundational elements it facilitates an understanding of ai s current state and potential future direction showcasing recent developments that bridge the gap between theory

and practice designed for a diverse readership this book is of interest to ai practitioners academics and enthusiasts as well as to those new to the field it provides an opportunity to explore ai s critical role in industrial applications and the practical insights it offers are likely to be beneficial for decision making within industrial settings

Clinical Prediction Models

2019-08-16

increasingly it is being recognized that consumer behavior may be a key trigger in the march toward sustainable development several lines of psychological theory and approaches have been developed relatively independently each of which may provide major implications and action points on how consumers might be moved toward more sustainable behavior this book is the first that brings together this variety of perspectives and theoretical angles around the common ambition of sustainable development the contributors are all leading social scientists in the field of consumer behavior who met the challenge to sketch out their theoretical perspectives but also to go beyond their normal theorizing and think out of the box in order to show how these theoretical perspectives might be made actionable in terms of key managerial and policy perspectives toward sustainable development the result is a book that shows a wealth of information and approaches the question of how to encourage sustainable behavior from a myriad of divergent perspectives this should stimulate scientists and policy makers alike to find similarities differences and synergies between state of the art psychological thinking about how to most effectively stimulate sustainable consumer behavior

Utilizing Technology for Sustainable Resource Management

Solutions

2020-10-16

a number of approaches are being defined for statistics and machine learning these approaches are used for the identification of the process of the system and the models created from the system s perceived data assisting scientists in the generation or refinement of current models machine learning is being studied extensively in science particularly in bioinformatics economics social sciences ecology and climate science but learning from data individually needs to be researched more for complex scenarios advanced knowledge representation approaches that can capture structural and process properties are necessary to provide meaningful knowledge to machine learning algorithms it has a significant impact on comprehending difficult scientific problems prediction and analysis for knowledge representation and machine learning demonstrates various knowledge representation and machine learning methodologies and architectures that will be active in the research field the approaches are reviewed with real life examples from a wide range of research topics an understanding of a number of techniques and algorithms that are implemented in knowledge representation in machine learning is available through the book s website features examines the representational adequacy of needed knowledge representation manipulates inferential adequacy for knowledge representation in order to produce new knowledge derived from the original information improves inferential and acquisition efficiency by applying automatic methods to acquire new knowledge covers the major challenges concerns and breakthroughs in knowledge representation and machine learning using the most up to date technology describes the ideas of knowledge representation and related technologies as well as their applications in order to help humankind become better and smarter this book serves as a reference book for researchers and practitioners who are working in the field of information technology and computer science in knowledge representation and machine learning for both basic and advanced concepts nowadays it has become essential to develop

adaptive robust scalable and reliable applications and also design solutions for day to day problems the edited book will be helpful for industry people and will also help beginners as well as high level users for learning the latest things which includes both basic and advanced concepts

Modern Techniques for Agricultural Disease Management and Crop Yield Prediction

2023-03-01

enter the world of internet of things with the power of data science with this highly practical engaging book about this book explore real world use cases from the internet of things iot domain using decision science with this easy to follow practical book learn to make smarter decisions on top of your iot solutions so that your iot is smart in a real sense this highly practical example rich guide fills the gap between your knowledge of data science and iot who this book is for if you have a basic programming experience with r and want to solve business use cases in iot using decision science then this book is for you even if your re a non technical manager anchoring iot projects you can skip the code and still benefit from the book what you will learn explore decision science with respect to iot get to know the end to end analytics stack descriptive inquisitive predictive prescriptive solve problems in iot connected assets and connected operations design and solve real life iot business use cases using cutting edge machine learning techniques synthesize and assimilate results to form the perfect story for a business master the art of problem solving when iot meets decision science using a variety of statistical and machine learning techniques along with hands on tasks in r in detail with an increasing number of devices getting connected to the internet massive amounts of data are being generated that can be used for analysis this book helps you to understand internet of things in depth and decision science and solve business use cases with iot the frequency and impact of the problem is huge

addressing a problem with such a huge impact requires a very structured approach the entire journey of addressing the problem by defining it designing the solution and executing it using decision science is articulated in this book through engaging and easy to understand business use cases you will get a detailed understanding of iot decision science and the art of solving a business problem in iot through decision science by the end of this book you ll have an understanding of the complex aspects of decision making in iot and will be able to take that knowledge with you onto whatever project calls for it style and approach this scenario based tutorial approaches the topic systematically allowing you to build upon what you learned in previous chapters

Computational Intelligence Methods in COVID-19: Surveillance, Prevention, Prediction and Diagnosis

2023-10-16

Risk-Based Planning and Operation Strategy Towards Short Circuit Resilient Power Systems

2001

Artificial Intelligence and Industrial Applications

2013-08-15

Structural Acoustic Prediction and Interior Noise Control

Technology

1996

Encouraging Sustainable Behavior

2022-01-31

ITS Architecture

2016-07-29

Prediction and Analysis for Knowledge Representation and

Machine Learning

1979

Smarter Decisions – The Intersection of Internet of Things and

Decision Science

Solar-terrestrial Predictions Proceedings: Prediction group reports

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