Access Free Prediction Of Heart Disease Using Classification Algorithms

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The Prediction and Coronary Heart Disease-Heart Attack

CMBEBIH 2019 Detection Of Heart Disease Using Decision Tree Technique

Prediction of Coronary Heart Disease Using Metabolite-based Machine Learning Models Machine Learning and Data Analytics for Predicting, Managing, and Monitoring Disease

Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning

Intelligent Decision Support Systems The Impact of Digital Technologies on Public Health in Developed and Developing Countries Advances in Computerized Analysis in Clinical and Medical Imaging

Image Processing for Automated Diagnosis of Cardiac Diseases Making heart diseases detectable. The invention of an algorithm for systematically predictions


Coronary Heart Disease Prediction Information and Communication Technology for Competitive Strategies

2019 1st International Conference on Innovations in Information and Communication Technology (ICICT) Heart Disease Prediction Using Machine Learning Algorithms

Computational Methodologies for Electrical and Electronics Engineers Progress in Advanced Computing and Intelligent Engineering

Applications of Big Data in Large- and Small-Scale Systems

Hybrid Technique for Associative Classification of Heart Diseases

Emerging ICT for Bridging the Future - Proceedings of the 49th Annual Convention of the Computer Society of India (CSI) Volume 1

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Machine Learning and Knowledge Extraction

Image Processing and Capsule Networks

Heart Disease Diagnosis and Therapy

Automated Variable Selection Methods and Model Fitting for Heart Disease Prediction

Intelligent Heart Disease Prediction System Using Naive Bayes Data Classification

Global Status Report on Noncommunicable Diseases 2010

Handbook of Research on Applied Intelligence for Health and Clinical Informatics

The Prediction and Coronary Heart Disease-Heart Attack

Intelligent prediction and decision support systems are based on signal processing, computer vision (CV), machine learning (ML), software engineering (SE), knowledge based systems (KBS), data mining, artificial intelligence (AI) and include several systems developed from the study of expert systems (ES), genetic algorithms (GA), artificial neural networks (ANN) and fuzzy-logic systems. The use of automatic decision support systems in design and manufacturing industry, healthcare and commercial software development systems has the following benefits: Cost savings in companies due to employment of expert system technology. Fast decision making, completion of projects in time and development of new products. Improvement in decision making capability and quality.

Usage of Knowledge database and Preservation of expertise of individuals Eases complex decision problems. Ex: Diagnosis in Healthcare To address the issues and challenges related to development, implementation and application of automatic and intelligent prediction and decision support systems in domains such as manufacturing, healthcare and software product design, development and optimization, this book aims to collect and publish wide ranges of quality articles such as original research contributions, methodological reviews, survey papers, case studies and/or reports covering intelligent systems, expert prediction systems, evaluation models, decision support systems and Computer Aided Diagnosis (CAD).

CMBEBIH 2019

Advances in Computerized Analysis in Clinical and Medical Imaging book is devoted for spreading of knowledge through the publication of scholarly research, primarily in the fields of clinical & medical imaging. The types of chapters consented include those that cover the development and implementation of algorithms and strategies based on the use of geometrical, statistical, physical, functional to solve the following types of problems, using medical image datasets: visualization, feature extraction, segmentation, image-guided surgery, representation of pictorial data, statistical shape analysis, computational physiology and telemedicine with medical images. This book highlights annotations for all the medical and clinical imaging researchers’ fundamental advances of clinical and medical image analysis techniques. This book will be a good source for the medical imaging and clinical research professionals, outstanding scientists, and educators from all around the world for network of knowledge sharing. This book comprise high quality disseminations of new ideas, technology focus, research results and discussions on the evolution of Clinical and Medical image analysis techniques for the benefit of both scientific and industrial developments. Features: Research aspects in clinical and medical image processing Human Computer Interaction and interface in imaging diagnostics Intelligent Imaging Systems for effective analysis using machine learning algorithms Clinical and Scientific Evaluation of Imaging Studies Computer-aided disease detection and diagnosis Clinical evaluations of new technologies Mobility and assistive devices for challenged and elderly people This book serves as a reference book for researchers and doctoral students in the clinical and medical imaging domain including radiologists. Industries that manufacture imaging modality systems and develop optical systems would be especially interested in the challenges and solutions provided in the book. Professionals and practitioners in the medical and clinical imaging may be benefited directly from authors’ experiences.

Detection Of Heart Disease Using Decision Tree Technique

ICOEI 2019 will provide an outstanding international forum for sharing knowledge and results in all fields of Engineering and Technology. The primary goal of the conference is to promote research and developmental activities in Electronics and Informatics. Another goal is to promote scientific information interchange between researchers, developers, engineers, students, and practitioners working in India and abroad. The conference is organized to make it an ideal platform for people to share views and experiences in Electronics, Informatics and related areas.
Prediction of Coronary Heart Disease Using Metabolite-based Machine Learning Models

This book presents original contributions on the theories and practices of emerging Internet, Data and Web technologies and their applications in businesses, engineering and academia. As a key feature, it addresses advances in the life-cycle exploitation of data generated by digital ecosystem technologies. The Internet has become the most proliferative platform for emerging large-scale computing paradigms. Among these, Data and Web technologies are two of the most prominent paradigms, manifesting in a variety of forms such as Data Centers, Cloud Computing, Mobile Cloud, Mobile Web Services, and so on. These technologies altogether create a digital ecosystem whose cornerstone is the data cycle, from capturing to processing, analysis and visualization. The need to investigate various research and development issues in this digital ecosystem has been made even more pressing by the ever-increasing demands of real-life applications, which are based on storing and processing large amounts of data. Given its scope, the book offers a valuable asset for all researchers, software developers, practitioners and students interested in the field of Data and Web technologies.

Machine Learning and Data Analytics for Predicting, Managing, and Monitoring Disease

The term Heart disease incorporates the diverse disease that have emotional impact on human heart. Cardiomyopathy and Cardiovascular disease are some categories of heart diseases. The objective is to predict more accurately the presence of type of Heart Attack, the patient is more prone to have in future with reduced numbers of attributes along with suggestive treatment by using KAPPA rating. Originally, thirteen attributes namely Age, Sex, Chest Pain Type, Fasting Blood Sugar, Slope, CA, Exang, Serum Cholesterol, Oldpeak, Thalach, RestECG, Thal, and Trest-Blood Pressure was involved in predicting the heart disease. In this proposed work 13 attributes are reduced to 7 attributes such as Chest pain, Resting Blood Pressure, Exang, Resting - ECG, Thalax, Serum Cholesterol And Coronary Angiography. Three different algorithms namely Decision Tree (C4.5), Naive Bayes and Neural Network is used for Heart Attack Type prediction and then KAPPA rating is applied to output the most likely attack type. The Data-set used for Heart Attack consist analytical data. Total more than 500 records with 7 medical (symptoms) attributes are used for as input to system.

Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning

This paper is focused on the possibility of having heart disease by training four machine learning algorithms. By using the data provided by the UCI Machine Learning Repository, we can analyze and compare the models of logistic regression, random forest, extreme gradient boosting and neural network to choose the most robust model and determine important features in our model.

Intelligent Decision Support Systems

This proceedings book gathers selected papers presented at the 4th Conference on Computing Systems and Applications (CSA2020) held on December 14, 2020, at the Ecole Militaire Polytechnique, Algiers, Algeria. The proceedings provide a collection of new ideas, original research findings, and experimental results in the field of computer science covering: artificial intelligence, data science, computer networks and security, information systems, software engineering, and computer graphics. The proceedings are a valuable reference work for students, researchers, academics, and industry practitioners interested in the latest scientific and technological advances across the conference topics. Benefits: “Explores the latest research trends and their applications in a broad range of computer science disciplines” “Presents a collection of contributions in emerging topics in computer science and information technology” “Covers artificial intelligence, data science, computer networks and security, information systems, software engineering, and computer graphics.”

The Impact of Digital Technologies on Public Health in Developed and Developing Countries

The main objective of this research is to develop a Intelligent Heart Disease Prediction System using three data mining modeling technique, namely, Naive Bayes. It is implemented as web based questionnaire application. Based on the user answers, it can discover and extract hidden knowledge (patterns and relationships) associated with heart disease from a historical heart disease database. It can answer complex queries for diagnosing heart disease and thus assist healthcare practitioners to make intelligent clinical decisions which traditional decision support systems cannot. By providing effective treatments, it also helps to reduce treatment costs.

Advances in Computerized Analysis in Clinical and Medical Imaging

Image Processing for Automated Diagnosis of Cardiac Diseases

M. Gabriel Khan, MD, concisely assembles in a reader friendly format all the clinically useful information that an internist needs in both his daily rounds and abusive office practice to find correct clinical diagnoses and choose optimal pharmacologic therapies for their patients. Highlights include a simplified method for recognition of, and a practical therapeutic approach to, arrhythmias, as well as a more logical approach to drug management of hypertension than that given by the Joint National Committee, instructive algorithms that simplify the diagnosis and treatment of syncope, and extensive diagnostic information on hypertrophic cardiomyopathy. A large number of illustrative electrocardiograms that help to clarify the most often misinterpreted of all cardiologic tests and
extensive discussions of practical cardiovascular pharmacology complete this magisterial survey.

Making heart diseases detectable. The invention of an algorithm for systematically predictions

In machine learning applications, practitioners must take into account the cost associated with the algorithm. These costs include: Cost of acquiring training dataCost of data annotation/labeling and cleaningComputational cost for model fitting, validation, and testingCost of collecting features/attributes for test dataCost of user feedback collect

2019 3rd International Conference on Trends in Electronics and Informatics (ICOEI)

Advances in Computing Systems and Applications

This work is focused on the designing of Heart Disease Detection System by using Decision Tree technique to diagnose Heart Disease. Heart Disease Detection System has been designed to improve prediction diseases. Machine learning C4.5 Decision tree algorithm has been implemented for the extraction of rules from the real patient benchmark dataset. 13 attributes are used and disease is diagnosed. C4.5 algorithm used in this research is compared with ID3 algorithm by using weka tool.

Coronary Heart Disease Prediction

Coronary heart disease (CHD) is a leading cause of death in the United States. Currently, the main method of risk assessment is carried out through established risk score algorithms by using traditional risk factors. These algorithms mainly focus on long-term prediction, with the limitation on assessing risk for younger adults. In recent years, with the advancement of serum nuclear magnetic resonance (NMR), more studies of using metabolites to predict CHD have merged. Assessing the risk with metabolites provides insights into the underlying molecular mechanisms of CHD. This thesis explores that possibility of using metabolites as the predictors and is aiming to understand how much prediction power that machine learning methods could bring in this prediction task.

Information and Communication Technology for Competitive Strategies

"This book addresses the newest innovative and intelligent applications related to utilizing the large amounts of big data being generated that is increasingly driving decision making and changing the landscape of business intelligence, from governments to private organizations, from communities to individuals"

2019 1st International Conference on Innovations in Information and Communication Technology (ICIICT)

This book constitutes the refereed proceedings of the IFIP TC 5, WG 8.4, 8.9, 12.9 International Cross-Domain Conference for Machine Learning and Knowledge Extraction, CD-MAKE 2017, held in Reggio, Italy, in August/September 2017. The 24 revised full papers presented were carefully reviewed and selected for inclusion in this volume. The papers deal with fundamental questions and theoretical aspects and cover a wide range of topics in the field of machine learning and knowledge extraction. They are organized in the following topical sections: MAKE topology; MAKE smart factory; MAKE privacy; MAKE VIS; MAKE AAL; and MAKE semantics.

Heart Disease Prediction Using Machine Learning Algorithms

The world is experiencing an unprecedented period of change and growth through all the electronic and technological developments and everyone on the planet has been impacted. What was once 'science fiction', today it is a reality. This book explores the world of many of once unthinkable advancements by explaining current technologies in great detail. Each chapter focuses on a different aspect - Machine Vision, Pattern Analysis and Image Processing - Advanced Trends in Computational Intelligence and Data Analytics - Futuristic Communication Technologies - Disruptive Technologies for Future Sustainability. The chapters include the list of topics that spans all the areas of smart intelligent systems and computing such as: Data Mining with Soft Computing, Evolutionary Computing, Quantum Computing, Expert Systems, Next Generation Communication, Blockchain and Trust Management, Intelligent Biometrics, Multi-Valued Logical Systems, Cloud Computing and security etc. An extensive list of bibliographic references at the end of each chapter guides the reader to probe further into application area of interest to him/her.

Computational Methodologies for Electrical and Electronics Engineers

This volume contains 73 papers presented at CSI 2014: Emerging ICT for Bridging the Future: Proceedings of the 49th Annual Convention of Computer Society of India. The convention was held during 12-14, December, 2014 at Hyderabad, Telangana, India. This volume contains papers mainly focused on Fuzzy Systems, Image Processing, Software Engineering, Cyber Security and Digital Forensic, E-Commerce, Big Data, Cloud Computing and ICT applications.
Progress in Advanced Computing and Intelligent Engineering

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.

Applications of Big Data in Large- and Small-Scale Systems

Image Processing for Automated Diagnosis of Cardiac Diseases highlights current and emerging technologies for the automated diagnosis of cardiac diseases. It presents concepts and practical algorithms, including techniques for the automated diagnosis of organs in motion using image processing. This book is suitable for biomedical engineering researchers, engineers and scientists in research and development, and clinicians who want to learn more about and develop advanced concepts in image processing to overcome the challenges of automated diagnosis of heart disease. Includes advanced techniques to improve diagnostic methods for various cardiac diseases Uses methods to improve the existing diagnostic features of echocardiographic machines Develops new diagnostic features for echocardiographic machines

Hybrid Technique for Associative Classification of Heart Diseases

Data mining is a field of computer science that combines statistical analysis and machine learning to detect hard-to-discriminate patterns from large amounts of data. It employs different algorithms to learn different patterns from training or experience and apply it to classify, predict or identify patterns. The healthcare environment is very information rich. There is a wealth of clinical data available within the healthcare systems. Also due to recent advancement of genomic research vast amount of genetic data are also available. Effective analysis tools are needed to discover hidden relationships and trends in these data. These tools are necessary to correctly diagnose people at risk of disease based on the derived knowledge from the data. We used data mining techniques to evaluate the interaction between traditional risk factors and gene variants such as Single Nucleotide Polymorphisms (SNPs) towards Coronary Heart Disease (CHD) susceptibility in a prospective study of older population aged 65 and older. In our thesis we asked two questions whether we can predict CHD at birth or adding genetic information to traditional risk factors predict CHD better than traditional risk factors alone. We analyzed two popular machine learning algorithms to determine the most efficient method on given domain. We also applied a clustering method to identify different subgroups present in the selected datasets and determine the effect of genetic data on clustering. This study demonstrates the concept of using multiple SNPs as independent risk factors and indicates that it can improve prediction of incident CHD.

Emerging ICT for Bridging the Future - Proceedings of the 49th Annual Convention of the Computer Society of India (CSI) Volume 1

The conference on “Interdisciplinary Research in Technology and Management” was a bold experiment in deviating from the traditional approach of conferences which focus on a specific topic or theme. By attempting to bring diverse inter-related topics on a common platform, the conference has sought to answer a long felt need and give a fillip to interdisciplinary research not only within the technology domain but across domains in the management field as well. The spectrum of topics covered in the research papers is too wide to be singled out for specific mention but it is noteworthy that these papers addressed many important and relevant concerns of the day.

Mechanocardiography in Coronary Heart Disease

Cardiovascular disease (CVD), once thought to be confined primarily to industrialized nations, has emerged as a major health threat in developing countries. Cardiovascular disease now accounts for nearly 30 percent of deaths in low and middle income countries each year, and is accompanied by significant economic repercussions. Yet most governments, global health institutions, and development agencies have largely overlooked CVD as they have invested in health in developing countries. Recognizing the gap between the compelling evidence of the global CVD burden and the investment needed to prevent and control CVD, the National Heart, Lung, and Blood Institute (NHLBI) turned to the IOM for advice on how to catalyze change. In this report, the IOM recommends that the NHLBI, development agencies, nongovernmental organizations, and governments work toward two essential goals: creating environments that promote heart healthy lifestyle choices and help reduce the risk of chronic diseases, and building public health infrastructure and health systems with the capacity to implement programs that will effectively detect and reduce risk and manage CVD. To meet these goals, the IOM recommends several steps, including improving cooperation and collaboration; implementing effective and feasible strategies; and informing efforts through research and health surveillance. Without better efforts to promote cardiovascular health, global health as a whole will be undermined.

Detection Of Heart Attack Type Along With Suggestion Of Treatment

Artificial intelligence has been applied to many areas of science and technology, including the power and energy sector. Renewable energy in particular has experienced the tremendous positive impact of these developments. With the recent evolution of smart energy technologies and algorithms and scientists working in this sector need an exhaustive source of current knowledge to effectively
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cater to the energy needs of citizens of developing countries. Computational Methodologies for Electrical and Electronics Engineers is a collection of innovative research that provides a complete insight and overview of the application of intelligent computational techniques in power and energy. Featuring research on a wide range of topics such as artificial neural networks, smart grids, and soft computing, this book is ideally designed for programmers, engineers, technicians, ecologists, entrepreneurs, researchers, academicians, and students.

Cost-Sensitive Machine Learning

Comprehensive Coverage of the Entire Area of Classification Research on the problem of classification tends to be fragmented across such areas as pattern recognition, database, data mining, and machine learning. Addressing the work of these different communities in a unified way, Data Classification: Algorithms and Applications explores the underlying algorithms of classification as well as applications of classification in a variety of problem domains, including text, multimedia, social network, and biological data. This comprehensive book focuses on three primary aspects of data classification: Methods-The book first describes common techniques used for classification, including probabilistic methods, decision trees, rule-based methods, instance-based methods, support vector machine methods, and neural networks. Domains-The book then examines specific methods used for data domains such as multimedia, text, time-series, network, discrete sequence, and uncertain data. It also covers large data sets and data streams due to the recent importance of the big data paradigm. Variations-The book concludes with insight on variations of the classification process. It discusses ensembles, rare-class learning, distance function learning, active learning, visual learning, transfer learning, and semi-supervised learning as well as evaluation aspects of classifiers.

Advances in Internet, Data and Web Technologies

Research Paper (postgraduate) from the year 2020 in the subject Computer Science - Programming, grade: 3, course: Machine learning, language: English, abstract: In this research paper it will be conducted and experimentally analysed to seek an improved method to predict heart disease in the upcoming years. So efficient steps can be taken in order to predict and treat the avoidable fatal heart problem. This work will be creating an efficient algorithm which will detect the disease on the basis of some parameters and give as much accurate information as possible. By using this method one can systematically predict the risk of suffering from this disease. The main feature utilized in the detection will include age, gender, max heart rate, exercise induced angina etc. In today's world the heart disease is increasing. Hence a lot of data related to the heart disease is being collected by using data mining. This important can be evaluated and used to predict and detect the coronary artery disease and heart related problem before the occurrence of the fatal experience. Many different types of life threatening diseases are amongst people but heart disease has been spotted the most in medical research. Early diagnosis of the disease is a very difficult task. We want to introduce an automated way of prediction of heart disease in individuals. This solution is not one and all solution but it will serve as a complementary diagnosis in the field of medical research. The main task in heart disease is to detect the disease early and treat it efficiently before any fatal experience occurs.

An IoT Framework for Heart Disease Prediction Based on MDCNN Classifier

Many researchers have focused on the diagnosis of heart disease, yet the accuracy of the diagnosis results is low. To address this issue, an IoT framework is proposed to evaluate heart disease more accurately using a Modified Deep Convolutional Neural Network (MDCNN). The smartwatch and heart monitor device that is attached to the patient monitors the blood pressure and electrocardiogram (ECC). The MDCNN is utilized for classifying the received sensor data into normal and abnormal.

The Prediction of Disease

This book contains 74 papers presented at ICTCS 2017: Third International Conference on Information and Communication Technology for Competitive Strategies. The conference was held during 16-17 December 2017, Udaipur, India and organized by Association of Computing Machinery, Udaipur Professional Chapter in association with The Institution of Engineers (India), Udaipur Local Center and Global Knowledge Research Foundation. This book contains papers mainly focused on ICT for Computation, Algorithms and Data Analytics and IT Security etc.

Interdisciplinary Research in Technology and Management

“*This report sets out the statistics, evidence and experiences needed to launch a more forceful response to the growing threat posed by noncommunicable diseases. While advice and recommendations are universally relevant, the report gives particular attention to conditions in low- and middle-income countries, which now bear nearly 80% of the burden from diseases like cardiovascular disease, diabetes, cancer and chronic respiratory diseases. The health consequences of the worldwide epidemic of obesity are also addressed. The report takes an analytical approach, using global, regional and country-specific data to document the magnitude of the problem, project future trends, and assess the factors contributing to these trends. As noted, the epidemic of these diseases is being driven by forces now touching every region of the world: demographic aging, rapid unplanned urbanization, and the globalization of unhealthy lifestyles*”-Publisher's description.

Clinical Prediction Models

This open access book constitutes the refereed proceedings of the 18th International Conference on String Processing and Information Retrieval, ICOST 2020, held in Hammamet, Tunisia, in June
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2020.* The 17 full papers and 23 short papers presented in this volume were carefully reviewed and selected from 49 submissions. They cover topics such as: IoT and AI solutions for e-health; biomedical and health informatics; behavior and activity monitoring; behavior and activity monitoring; and wellbeing technology.* This conference was held virtually due to the COVID-19 pandemic.

Smart and Sustainable Intelligent Systems

This volume gathers the proceedings of the International Conference on Medical and Biological Engineering, which was held from 16 to 18 May 2019 in Banja Luka, Bosnia and Herzegovina. Focusing on the goal to ‘Share the Vision’, it highlights the latest findings, innovative solutions and emerging challenges in the field of Biomedical Engineering. The book covers a wide range of topics, including: biomedical signal processing, medical physics, biomedical imaging and radiation protection, biosensors and bioinstrumentation, bio-micro/nano technologies, biomaterials, biomechanics, robotics and minimally invasive surgery, and cardiovascular, respiratory and endocrine systems engineering. Further topics include bioinformatics and computational biology, clinical engineering and health technology assessment, health informatics, e-health and telemedicine, artificial intelligence and machine learning in healthcare, as well as pharmaceutical and genetic engineering. Given its scope, the book provides academic researchers, clinical researchers and professionals alike with a timely reference guide to measures for improving the quality of life and healthcare.

Promoting Cardiovascular Health in the Developing World

Machine Learning and Knowledge Extraction

Image Processing and Capsule Networks

Prediction models are important in various fields, including medicine, physics, meteorology, and finance. Prediction models will become more relevant in the medical field with the increase in knowledge on potential predictors of outcome, e.g. from genetics. Also, the number of applications will increase, e.g. with targeted early detection of disease, and individualized approaches to diagnostic testing and treatment. The current era of evidence-based medicine asks for an individualized approach to medical decision-making. Evidence-based medicine has a central place for meta-analysis to summarize results from randomized controlled trials; similarly prediction models may summarize the effects of predictors to provide individualized predictions of a diagnostic or prognostic outcome. Why Read This Book? My motivation for working on this book stems primarily from the fact that the development and applications of prediction models are often suboptimal in medical publications. With this book I hope to contribute to better understanding of relevant issues and give practical advice on better modelling strategies than are nowadays widely used. Issues include: (a) Better predictive modelling is sometimes easily possible; e.g. a large data set with high quality data is available, but all continuous predictors are dichotomized, which is known to have several disadvantages.

Heart Disease Diagnosis and Therapy

The main objective of this conference is to create awareness and to provide a perfect platform for the participants to upgrade their knowledge and experience and to discuss on the ways to disseminate the awareness of the latest developments and advances in the field of Engineering & Technology This conference reflects the current focus of global research, recent developments, challenges and emerging trends in the field of Information and Communication Technologies

Automated Variable Selection Methods and Model Fitting for Heart Disease Prediction

Currently, informatics within the field of public health is a developing and growing industry. Clinical informatics are used in direct patient care by supplying medical practitioners with information that can be used to develop a care plan. Intelligent applications in clinical informatics facilitates with the technology-based solutions to analyze data or medical images and help clinicians to retrieve that information. Decision models aid with making complex decisions especially in uncertain situations. The Handbook of Research on Applied Intelligence for Health and Clinical Informatics is a comprehensive reference book that focuses on the study of resources and methods for the management of healthcare infrastructure and information. This book provides insights on how applied intelligence with deep learning, experiential learning, and more will impact healthcare and clinical information processing. The content explores the representation, processing, and communication of clinical information in natural and engineered systems. This book covers a range of topics including applied intelligence, medical imaging, telehealth, and decision support systems, and also looks at technologies and tools used in the detection and diagnosis of medical conditions such as cancers, diabetes, heart disease, lung disease, and prenatal syndromes. It is an essential reference source for diagnosticians, medical professionals, imaging specialists, data specialists, IT consultants, medical technologists, academicians, researchers, industrial experts, scientists, and students.

Intelligent Heart Disease Prediction System Using Naive Bayes

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Data Classification

This book emphasizes the emerging building block of image processing domain, which is known as capsule networks for performing deep image recognition and processing for next-generation imaging science. Recent years have witnessed the continuous development of technologies and methodologies related to image processing, analysis and 3D modeling which have been implemented in the field of computer and image vision. The significant development of these technologies has led to an efficient solution called capsule networks (CapsNet) to solve the intricate challenges in recognizing complex image poses, visual tasks, and object deformation. Moreover, the breakneck growth of computation complexities and computing efficiency has initiated the significant developments of the effective and sophisticated capsule network algorithms and artificial intelligence (AI) tools into existence. The main contribution of this book is to explain and summarize the significant state-of-the-art research advances in the areas of capsule network (CapsNet) algorithms and architectures with real-time implications in the areas of image detection, remote sensing, biomedical image analysis, computer communications, machine vision, Internet of things, and data analytics techniques.

Global Status Report on Noncommunicable Diseases 2010

Data analytics is proving to be an ally for epidemiologists as they join forces with data scientists to address the scale of crises. Analytics examined from many sources can derive insights and be used to study and fight global outbreaks. Pandemic analytics is a modern way to combat a problem as old as humanity itself: the proliferation of disease. Machine Learning and Data Analytics for Predicting, Managing, and Monitoring Disease explores different types of data and discusses how to prepare data for analysis, perform simple statistical analyses, create meaningful data visualizations, predict future trends from data, and more by applying cutting edge technology such as machine learning and data analytics in the wake of the COVID-19 pandemic. Covering a range of topics such as mental health analytics during COVID-19, data analysis and machine learning using Python, and statistical model development and deployment, it is ideal for researchers, academicians, data scientists, technologists, data analysts, diagnosticians, healthcare professionals, computer scientists, and students.

Handbook of Research on Applied Intelligence for Health and Clinical Informatics

This book features high-quality research papers presented at the International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2017). It includes sections describing technical advances in the fields of advanced computing and intelligent engineering, which are based on the presented articles. Intended for postgraduate students and researchers working in the discipline of computer science and engineering, the proceedings also appeal to researchers in the domain of electronics as it covers hardware technologies and future communication technologies.

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