Smart Health

R. Lakshmana Kumar,R. Indrakumari,B. Balamurugan,Achyut Shankar

Smart Health:

Revolutionizing Healthcare Treatment With Sensor Technology Das, Sima,Bhowmick, Parijat,Kitmo, Dr.,2024-05-28 Traditional patient care and treatment approaches often lack the personalized and interactive elements necessary for effective healthcare delivery This means that the healthcare industry must find innovative solutions to improve patient outcomes enhance rehabilitation processes and optimize resource utilization There is a gap between the traditional approach and the need for innovation that highlights the importance of a comprehensive understanding of emerging technologies including Kinect Sensor technology and the potential to transform healthcare practices with this tech Revolutionizing Healthcare Treatment With Sensor Technology addresses this critical need by thoroughly exploring how Kinect Sensor technology can revolutionize patient care and treatment methodologies By repurposing and customizing Kinect Sensor for healthcare applications this book showcases how depth sensing cameras infrared sensors and advanced motion tracking can capture and interpret real time patient movements and interactions This book is ideal for healthcare professionals hospital administrators researchers patients caregivers and healthcare technology developers seeking to leverage Kinect Sensor technology for enhanced healthcare delivery Through detailed case studies and practical examples experts can learn how to integrate Kinect Sensor into various medical settings to gain valuable insights into patients physical capabilities monitor their progress and create personalized treatment plans *Soft Computing Applications* Valentina Emilia Balas,Lakhmi C. Jain,Marius Mircea Balas,Dumitru Baleanu,2023-10-26 Soft computing techniques open significant opportunities in several areas such as industry medicine energy security transportation and education This book provides theory and applications development using soft computing techniques by organizing intelligent systems for many applications to the benefit of humanity The book comes from a multidisciplinary subject whose audience can come from different academic departments e g department of computer science and engineering department of medical imaging department of biomedical informatics department of education sciences and so on where artificial intelligence and soft computing are of routine courses The book covers a range of audience from academicians practitioners researchers and students to stakeholders It can support graduate students and interns to develop a deep understanding of the latest paradigms in the soft computing techniques **Explainable IoT Applications: A Demystification** Sachi Nandan Mohanty,Suneeta Satpathy,Xiaochun Cheng,Subhendu Kumar Pani,2025-02-13 Explainable IoT Application A Demystification is an in depth guide that examines the intersection of the Internet of Things IoT with AI and Machine Learning focusing on the crucial need for transparency and interpretability in IoT systems As IoT devices become more integrated into daily life from smart homes to industrial automation it is increasingly important to understand and trust the decisions they make The book starts by covering the basics of IoT highlighting its importance in modern technology and its wide ranging applications in fields such as healthcare transportation and smart cities It then delves into the concept of explainability stressing the need to prevent

IoT systems from being perceived as opaque black box operations The authors explore various techniques and methods for achieving explainability including rule based systems and machine learning models while also addressing the challenge of balancing explainability with performance Through practical examples the book shows how explainability can be successfully implemented in IoT applications such as in smart healthcare systems Furthermore the book addresses the significant challenges of securing IoT systems in an increasingly connected world It examines the unique vulnerabilities that come with the widespread use of IoT devices such as data breaches cyberattacks and privacy issues and discusses the complexities of managing these risks The authors emphasize the importance of implementing security strategies that strike a balance between fostering innovations and protecting user data The book concludes with a comprehensive exploration of the challenges and opportunities in making IoT systems more transparent and interpretable offering valuable insights for researchers developers and decision makers aiming to create IoT applications that are both trustworthy and understandable

IoT Applications, Security Threats, and Countermeasures Padmalaya Nayak,Niranjan Ray,P. Ravichandran,2021-09-02 The book explores modern sensor technologies while also discussing security issues which is the dominant factor for many types of Internet of Things IoT applications It also covers recent IoT applications such as the Markovian Arrival Process fog computing real time solar energy monitoring healthcare and agriculture Fundamental concepts of gathering processing and analyzing different Artificial Intelligence AI models in IoT applications are covered along with recent detection mechanisms for different types of attacks for effective network communication On par with the standards laid out by international organizations in related fields the book focuses on both core concepts of IoT along with major application areas Designed for technical developers academicians data scientists industrial researchers professionals and students this book is useful in uncovering the latest innovations in the field of IoT **Computational Intelligence for Cybersecurity Management and Applications** Yassine Maleh,Mamoun Alazab,Soufyane Mounir,2023-04-28 As cyberattacks continue to grow in complexity and number computational intelligence is helping under resourced security analysts stay one step ahead of threats Drawing on threat intelligence from millions of studies blogs and news articles computational intelligence techniques such as machine learning and automatic natural language processing quickly provide the means to identify real threats and dramatically reduce response times The book collects and reports on recent high quality research addressing different cybersecurity challenges It explores the newest developments in the use of computational intelligence and AI for cybersecurity applications provides several case studies related to computational intelligence techniques for cybersecurity in a wide range of applications smart health care blockchain cyber physical system etc integrates theoretical and practical aspects of computational intelligence for cybersecurity so that any reader from novice to expert may understand the book s explanations of key topics It offers comprehensive coverage of the essential topics including machine learning and deep learning for cybersecurity blockchain for cybersecurity and privacy security

engineering for cyber physical systems AI and data analytics techniques for cybersecurity in smart systems trust in digital systems This book discusses the current state of the art and practical solutions for the following cybersecurity and privacy issues using artificial intelligence techniques and cutting edge technology Readers interested in learning more about computational intelligence techniques for cybersecurity applications and management will find this book invaluable They will get insight into potential avenues for future study on these topics and be able to prioritize their efforts better   <u>Aging Society and ICT</u> T. Obi,J.P. Auffret,N. Iwasaki,2013-09-12 It is predicted that by 2050 22% of the world s population will be over 60 years of age This rapid shift in demographics calls for the development of coherent and forward looking policies to address the many challenges which will inevitably arise as a result This book presents 33 articles from the workshop jointly organized by APEC and OECD held in Waseda University Tokyo Japan in September 2012 At this workshop a group of international experts described a wide range of important issues associated with an aging population and discussed how both governments and the private sector can best mobilize innovation and research to transform this global challenge into an opportunity for active and productive aging and new sources of sustainable growth The authors call for a comprehensive approach to achieve policy coherence as well as for strengthening public private partnerships and promoting collaboration among multiple stakeholders and systems The book is divided into six chapters covering such subjects as lessons learnt from best practice solutions for the aging society policy initiatives health innovation smart communities and new services Innovation will be necessary to meet the challenges and to mitigate the health social and economic impacts of an aging population worldwide as well as unlocking the potential of ICTs through increased research and new models This book will be of interest to all those whose work involves the development of new services for older people in sectors such as health and nursing care education and training transportation community development and smart cities among others   **Digital Tools and Data for Innovative Healthcare** Patricia Ordonez de Pablos,Miltiadis Lytras,2025-10-13 Digital Tools and Data for Innovative Healthcare A Vision for Healthier and More Inclusive Societies is an invaluable resource for addressing the critical needs of healthcare professionals and researchers In 6 sections it provides an in depth exploration of digital health technologies offering practical applications and ethical guidelines that are essential for the effective use of health data By focusing on the integration of AI and machine learning in clinical environments the book equips its audience with the knowledge necessary to enhance patient outcomes and optimise healthcare operations This comprehensive approach ensures that readers are well prepared to navigate and leverage the rapidly evolving landscape of digital healthcare Provides understanding to the potential of digital tools in the field of healthcare and how these tools can build stronger national health systems Include cases with experiences of applications of health data tools and services for the digital transformation of healthcare sector Give views and insights for the transition towards stronger healthcare models and infrastructures   *Artificial Intelligence and Cybersecurity in Healthcare* Rashmi Agrawal,Pramod Singh Rathore,Ganesh Gopal

Deverajan,Rajiva Ranjan Divivedi,2025-04-01 Artificial Intelligence and Cybersecurity in Healthcare provides a crucial exploration of AI and cybersecurity within healthcare Cyber Physical Systems CPS offering insights into the complex technological landscape shaping modern patient care and data protection As technology advances healthcare has transformed particularly through the implementation of CPS that integrate the digital and physical worlds enhancing system efficiency and effectiveness This increased reliance on technology raises significant security concerns The book addresses the integration of AI and cybersecurity in healthcare CPS detailing technological advancements applications and the challenges they present AI applications in healthcare CPS include remote patient monitoring AI chatbots for patient assistance and biometric authentication for data security AI not only improves patient care and clinical decision making by analyzing extensive data and optimizing treatment plans but also enhances CPS security by detecting and responding to cyber threats Nonetheless AI systems are susceptible to attacks emphasizing the need for robust cybersecurity Significant issues include the privacy and security of sensitive healthcare data potential identity theft and medical fraud from data breaches alongside ethical concerns such as algorithmic bias As the healthcare industry becomes increasingly digital and data driven integrating AI and cybersecurity measures into CPS is essential This requires collaboration among healthcare providers tech vendors regulatory bodies and cybersecurity experts to develop best practices and standards This book aims to provide a comprehensive understanding of AI cybersecurity and healthcare CPS It explores technologies like augmented reality blockchain and the Internet of Things addressing associated challenges like cybersecurity threats and ethical dilemmas *Fuzzy Sets, Fuzzy Logic and Their Applications* Michael Gr. Voskoglou,2020-03-25 The present book contains 20 articles collected from amongst the 53 total submitted manuscripts for the Special Issue Fuzzy Sets Fuzzy Loigic and Their Applications of the MDPI journal Mathematics The articles which appear in the book in the series in which they were accepted published in Volumes 7 2019 and 8 2020 of the journal cover a wide range of topics connected to the theory and applications of fuzzy systems and their extensions and generalizations This range includes among others management of the uncertainty in a fuzzy environment fuzzy assessment methods of human machine performance fuzzy graphs fuzzy topological and convergence spaces bipolar fuzzy relations type 2 fuzzy and intuitionistic interval valued complex picture and Pythagorean fuzzy sets soft sets and algebras etc The applications presented are oriented to finance fuzzy analytic hierarchy green supply chain industries smart health practice and hotel selection This wide range of topics makes the book interesting for all those working in the wider area of Fuzzy sets and systems and of fuzzy logic and for those who have the proper mathematical background who wish to become familiar with recent advances in fuzzy mathematics which has entered to almost all sectors of human life and activity Internet of Things and Data Mining for Modern Engineering and Healthcare Applications Ankan Bhattacharya,Bappadittya Roy,Samarendra Nath Sur,Saurav Mallik,Subhasis Dasgupta,2022-08-30 This book focusses on the Internet of Things IoT and Data Mining for Modern Engineering and Healthcare Applications and the

recent technological advancements in Microwave Engineering Communication and applicability of newly developed Solid State Technologies in Bio medical Engineering and Health Care The Reader will be able to know the recent advancements in Microwave Engineering including novel techniques in Microwave Antenna Design and various aspects of Microwave Propagation This book aims to showcase the various aspects of Communication Networking Data Mining Computational Biology Bioinformatics Bio Statistics and Machine Learning In this book recent trends in Solid State Technologies VLSI and applicability of modern Electronic Devices in Bio informatics and Health Care is focused Furthermore this book showcases the modern optimization techniques in Power System Engineering Machine Design and Power Systems This Book highlights the Internet of Things IoT and Data Mining for Modern Engineering and Healthcare Applications and the recent technological advancements in Microwave Engineering Communication and applicability of newly developed Solid State Technologies in Bio medical Engineering and Health Care for day to day applications Societal benefits of Microwave Technologies for smooth and hustle free life are also areas of major focus Microwave Engineering includes recent advancements and novel techniques in Microwave Antenna Design and various aspects of Microwave Propagation Day to Day applicability of modern communication and networking technologies are a matter of prime concern This book aims to showcase the various aspects of Communication Networking Data Mining Computational Biology Bioinformatics Bio Statistics and Machine Learning Role of Solid Sate Engineering in development of modern electronic gadgets are discussed In this book recent trends in Solid State Technologies VLSI and applicability of modern Electronic Devices in Bio informatics and Biosensing Devices for Smart Health care are also discussed Features This book features Internet of Things IoT and Data Mining for Modern Engineering and Healthcare Applications and the recent technological advancements in Microwave Engineering Communication and applicability of newly developed Solid State Technologies in Bio medical Engineering and Smart Health Care Technologies Showcases the novel techniques in Internet of Things IoT integrated Microwave Antenna Design and various aspects of Microwave Communication Highlights the role of Internet of Things IoT various aspects of Communication Networking Data Mining Computational Biology Bioinformatics Bio Statistics and Machine Learning Reviews the role of Internet of Things IoT in Solid State Technologies VLSI and applicability of modern Electronic Devices in Bio informatics and Health Care In this book role of Internet of Things IoT in Power System Engineering Optics RF and Microwave Energy Harvesting and Smart Biosensing Technologies are also highlighted   Machine Learning Applications for Data Analysis in Healthcare Systems Sudeshna Chakraborty,Jyotsna Singh,Praveen Kumar Shukla,Prasenjit Chatterjee,2025-11-18 This comprehensive exploration investigates the powerful intersection and the ever changing impact of machine learning techniques on data analysis in healthcare transforming the way we approach medical challenges improve patient outcomes and enhance healthcare systems The healthcare industry generates an enormous amount of data from electronic health records and medical imaging to genomic sequencing and wearable devices However the true value of this

data lies not in its sheer volume but in the insights it can provide Machine learning algorithms offer the means to unlock the hidden patterns and knowledge within this data enabling us to make informed decisions identify high risk patients and personalize interventions for better healthcare outcomes This volume emphasizes the practical implementation of machine learning techniques supported by real world case studies and examples **AI and Blockchain in Healthcare** Bipin Kumar Rai,Gautam Kumar,Vipin Balyan,2023-04-30 This book presents state of the art blockchain and AI advances in health care Healthcare service is increasingly creating the scope for blockchain and AI applications to enter the biomedical and healthcare world Today blockchain AI ML and deep learning are affecting every domain Through its cutting edge applications AI and ML are helping transform the healthcare industry for the better Blockchain is a decentralization communication platform that has the potential to decentralize the way we store data and manage information Blockchain technology has potential to reduce the role of middleman one of the most important regulatory actors in our society Transactions are simultaneously secure and trustworthy due to the use of cryptographic principles In recent years blockchain technology has become very trendy and has penetrated different domains mostly due to the popularity of cryptocurrencies One field where blockchain technology has tremendous potential is health care due to the need for a more patient centric approach in healthcare systems to connect disparate systems and to increase the accuracy of electronic healthcare records EHRs Financial Cryptography and Data Security Matthew Bernhard,Andrea Bracciali,L. Jean Camp,Shin'ichiro Matsuo,Alana Maurushat,Peter B. Rønne,Massimiliano Sala,2020-08-06 This book constitutes the refereed proceedings of two workshops held at the 24th International Conference on Financial Cryptography and Data Security FC 2020 in Kota Kinabalu Malaysia in February 2020 The 39 full papers and 3 short papers presented in this book were carefully reviewed and selected from 73 submissions The papers feature four Workshops The 1st Asian Workshop on Usable Security AsiaUSEC 2020 the 1st Workshop on Coordination of Decentralized Finance CoDeFi 2020 the 5th Workshop on Advances in Secure Electronic Voting VOTING 2020 and the 4th Workshop on Trusted Smart Contracts WTSC 2020 The AsiaUSEC Workshop contributes an increase of the scientific quality of research in human factors in security and privacy In terms of improving efficacy of secure systems the research included an extension of graphical password authentication Further a comparative study of SpotBugs SonarQube Cryptoguard and CogniCrypt identified strengths in each and refined the need for improvements in security testing tools The CoDeFi Workshop discuss multi disciplinary issues regarding technologies and operations of decentralized finance based on permissionless blockchain The workshop consists of two parts presentations by all stakeholders and unconference style discussions The VOTING Workshop cover topics like new methods for risk limited audits new ethods to increase the efficiency of mixnets verification of security of voting schemes election auditing voting system efficiency voting system usability and new technical designs for cryptographic protocols for voting systems and new way of preventing voteselling by de incentivising this via smart contracts The WTSC Workshop focuses on smart contracts i e self enforcing

agreements in the form of executable programs and other decentralized applications that are deployed to and run on top of specialized blockchains   *Exploratory Data Analytics for Healthcare* R. Lakshmana Kumar,R. Indrakumari,B. Balamurugan,Achyut Shankar,2021-12-23 Exploratory data analysis helps to recognize natural patterns hidden in the data This book describes the tools for hypothesis generation by visualizing data through graphical representation and provides insight into advanced analytics concepts in an easy way The book addresses the complete data visualization technologies workflow explores basic and high level concepts of computer science and engineering in medical science and provides an overview of the clinical scientific research areas that enables smart diagnosis equipment It will discuss techniques and tools used to explore large volumes of medical data and offers case studies that focus on the innovative technological upgradation and challenges faced today The primary audience for the book includes specialists researchers graduates designers experts physicians and engineers who are doing research in this domain   *Recent Advances in Internet of Things and Machine Learning* Valentina E. Balas,Vijender Kumar Solanki,Raghvendra Kumar,2022-02-14 This book covers a domain that is significantly impacted by the growth of soft computing Internet of Things IoT related applications are gaining much attention with more and more devices which are getting connected and they become the potential components of some smart applications Thus a global enthusiasm has sparked over various domains such as health agriculture energy security and retail So in this book the main objective is to capture this multifaceted nature of IoT and machine learning in one single place According to the contribution of each chapter the book also provides a future direction for IoT and machine learning research The objectives of this book are to identify different issues suggest feasible solutions to those identified issues and enable researchers and practitioners from both academia and industry to interact with each other regarding emerging technologies related to IoT and machine learning In this book we look for novel chapters that recommend new methodologies recent advancement system architectures and other solutions to prevail over the limitations of IoT and machine learning   **Reconnoitering the Landscape of Edge Intelligence in Healthcare** Suneeta Satpathy,Sachi Nandan Mohanty,Sirisha Potluri,2024-04-23 The revolution in healthcare as well as demand for efficient real time healthcare services are driving the progression of edge computing AI mediated techniques deep learning and IoT applications for healthcare industries and cloud computing Edge computing helps to meet the demand for newer and more sophisticated healthcare systems that are more personalized and that match the speed of modern life With applications of edge computing automated intelligence and intuitions are incorporated into existing healthcare analysis tools for identifying forecasting and preventing high risk diseases Reconnoitering the Landscape of Edge Intelligence in Healthcare provides comprehensive research on edge intelligence technology with the emphasis on application in the healthcare industry It covers all the various areas of edge intelligence for data analysis in healthcare looking at the emerging technologies such as AI based techniques machine learning IoT cloud computing and deep learning with illustrations of the design implementation and management of smart

and intelligent healthcare systems Chapters showcase the advantages and highlights of the adoption of the intelligent edge models toward smart healthcare infrastructure The book also addresses the increased need for a high level of medical data security while transferring real time data to cloud based architecture a matter of prime concern for both patient and doctor Topics include edge intelligence for wearable sensor technologies and their applications for health monitoring the various edge computing techniques for disease prediction e health services and e security solutions through IoT devices that aim to improve the quality of care for transgender patients smart technology in ambient assisted living the role of edge intelligence in limiting virus spread during pandemics neuroscience in decoding and analysis of visual perception from the neural patterns and visual image reconstruction and more The technology addressed include energy aware cross layer routing protocol ECRP OMKELM IDS technique graphical user interface GUI IOST an ultra fast decentralized blockchain platform etc This volume will be helpful to engineering students research scholars and manufacturing industry professionals in the fields of engineering applications initiatives on AI machine learning and deep learning techniques for edge computing

Handbook of Research on Deep Learning Techniques for Cloud-Based Industrial IoT Swarnalatha, P.,Prabu, S.,2023-07-03 Today s business world is changing with the adoption of the internet of things IoT IoT is helping in prominently capturing a tremendous amount of data from multiple sources Realizing the future and full potential of IoT devices will require an investment in new technologies The Handbook of Research on Deep Learning Techniques for Cloud Based Industrial IoT demonstrates how the computer scientists and engineers of today might employ artificial intelligence in practical applications with the emerging cloud and IoT technologies The book also gathers recent research works in emerging artificial intelligence methods and applications for processing and storing the data generated from the cloud based internet of things Covering key topics such as data cybersecurity blockchain and artificial intelligence this premier reference source is ideal for industry professionals engineers computer scientists researchers scholars academicians practitioners instructors and students   *Home Healthcare Services and Technology Implications* Çapar, Haşim,Çakmak, Mehmet Aziz,2025-08-12 As global populations age and healthcare demands shift home healthcare is emerging as a vital model for delivering personalized cost effective care Technological innovations are transforming how these services are designed managed and delivered This transformation enhances the efficiency accessibility and responsiveness of care especially in dispersed or high need regions At the same time integrating advanced technologies raises critical considerations around equity workforce development and sustainable implementation Addressing these dynamics is essential to shaping a resilient inclusive and future ready healthcare system that meets evolving societal needs Home Healthcare Services and Technology Implications explores the relationship between the development of home healthcare services and technological innovation in the field addressing technological change and transformation of the new world changes in population structure and related health needs Additionally it focuses on how artificial intelligence and new algorithms will shape the growing expectations of

healthcare services Covering topics such as artificial intelligence people with disabilities and user interfaces this book is an excellent resource for academicians researchers marketing professionals human resources and training professionals health ministers hospital managers educators and more   INTELLIGENT MEDICAL AND MECHANICAL SYSTEMS AI and Data Technologies in Device Innovation SAI TEJA NUKA,   **Transforming Healthcare Sector Through Artificial Intelligence and Environmental Sustainability** Rubee Singh,Wasswa Shafik,David Crowther,Vikas Kumar,2025-01-22 This book explores the intersection of artificial intelligence AI and sustainability in healthcare focusing on how AI technologies are transforming medical practices while promoting environmentally responsible operations It examines how AI driven tools like machine learning and data analysis enhance diagnostic accuracy streamline treatment planning and personalize patient care by analysing large datasets including genetic information Additionally the book addresses how AI can support sustainable healthcare practices by optimizing resource usage such as energy consumption in hospitals and improving supply chain management to reduce environmental impact Practical case studies demonstrate how these technologies are being implemented to improve patient outcomes and achieve sustainability goals The book considers the integration of AI into human resource management within healthcare discussing AI s role in recruitment performance management and employee retention aligned with sustainability objectives Ethical and regulatory issues surrounding AI adoption such as data privacy and algorithmic transparency are thoroughly examined with an emphasis on creating responsible and equitable AI systems Designed for healthcare professionals and administrators this book provides practical strategies and real world examples of AI implementation in sustainable healthcare offering a balanced view of the opportunities and challenges ahead

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