

REZAUL BEGG, JOARDER KAMRUZZAMAN, RUHUL SARKER

# Neural Networks in Healthcare

POTENTIAL AND  
CHALLENGES

# Neural Networks In Healthcare Potential And Challenges

**Liu, Haipeng, Tripathy, Rajesh  
Kumar, Bhattacharya, Pronaya**



## **Neural Networks In Healthcare Potential And Challenges:**

*Neural Networks in Healthcare: Potential and Challenges* Begg, Rezaul, Kamruzzaman, Joarder, Sarker, Ruhul, 2006-01-31 This book covers state of the art applications in many areas of medicine and healthcare Provided by publisher

**Lean Thinking for Healthcare** Nilmini Wickramasinghe, Latif Al-Hakim, Chris Gonzalez, Joseph Tan, 2013-10-04 A growing aging population the rise to epidemic proportions of various chronic diseases competing often overlapping medical technologies and of course skyrocketing costs compounded by waste and inefficiency these are just a few of the multifarious challenges currently facing healthcare delivery An unexpected source of solutions is being imported from the manufacturing sector lean thinking Lean Principles for Healthcare presents a conceptual framework management principles and practical tools for professionals tasked with designing and implementing modern streamlined healthcare systems or overhauling faulty ones Focusing on core components such as knowledge management e health patient centeredness and collaborative care chapters illustrate lean concepts in action across specialties as diverse as nursing urology and emergency care and around the globe Extended case examples show health systems responding to consumer needs and provider realities with equal efficiency and effectiveness and improved quality and patient outcomes Further contributors tackle the gamut of technological medical cultural and business issues among them Initiatives of service oriented architecture towards performance improvement Adapted lean thinking for emergency departments Lean thinking in dementia care through smart assistive technology Supporting preventive healthcare with persuasive services Value stream mapping for lean healthcare A technology mediated solution to reduce healthcare disparities Geared toward both how lean ideas can be carried out and how they are being used successfully in the real world Lean Principles for Healthcare not only brings expert knowledge to healthcare managers and health services researchers but to all who have an interest in superior healthcare delivery

**Machine Learning in Healthcare Informatics** Sumeet Dua, U. Rajendra Acharya, Prerna Dua, 2013-12-09 The book is a unique effort to represent a variety of techniques designed to represent enhance and empower multi disciplinary and multi institutional machine learning research in healthcare informatics The book provides a unique compendium of current and emerging machine learning paradigms for healthcare informatics and reflects the diversity complexity and the depth and breath of this multi disciplinary area The integrated panoramic view of data and machine learning techniques can provide an opportunity for novel clinical insights and discoveries

**Intelligent Systems Modeling and Simulation III** Samsul Ariffin Abdul Karim, 2024-09-21 This book continues the previous edition Samsul Ariffin Abdul Karim 2022 Intelligent Systems Modeling and Simulation II Machine Learning Neural Networks Efficient Numerical Algorithm and Statistical Methods Studies in Systems Decision and Control SSDC volume 444 22k Access After two years Intelligent Systems Modeling and Simulation have evolved tremendously through the latest and advanced emergence technologies and many highly sophisticated algorithms have been developed by blending artificial intelligence AI and mathematics statistics data modelling and other

related research areas These blends offer many opportunities and further investigations into the overlap and equality between these areas It is a well known fact that most industries and companies have utilized this IR4.0 architecture in various levels of manufacturing and decision processes Besides nowadays IR5.0 or Society5.0 has also been embedded into various systems in industries as well as in Teaching and Learning TL The combination of IR4.0 and Society 5.0 may result in more impactful outcomes especially in automated decision making and reliable simulations based modelling Furthermore IR4.0 and Society5.0 through Data Driven have made a significant contribution to the government and companies to analyse big data via predictive analytics Cyber security firewalls on all systems must be up to date to prevent any malicious attacks by hackers Otherwise our citizens might be scammed and according to NBC News the total loss for 2022 is around USD 8.8 billion These are very huge amount Just recently COVID 19 has been spreading all over the world again To assist the Ministry of Health MOH and other government agencies it is very crucial to identify predict detect and quarantine the COVID 19 on the susceptible persons soonest possible Intelligent Image Processing techniques are very demanding here This is to ensure that we can control and minimise the spread Inspire by these latest developments in this book various experts in the areas of Artificial Intelligence Machine Learning Deep Learning Neural Networks Modeling and Simulation Cyber Security and Awareness Intelligent Statistical Methods Big Data Analytics Sentiment Analytics Intelligent Function Approximation Image Processing in medical imaging especially on COVID 19 AI in Teaching and Learning and Computational Intelligence will share their latest studies and experiences Their finding is in line with United Nations Sustainable Development Goals SDGs such as No 9 Industry Innovation and Infrastructure particularly Target 9.4, 9.5, 9.a, 9.b and 9.c No 11 Sustainable Cities and Communities particularly Target 11.b and Indicators 11.b.1 and 11.b.2 and SDG No 4 Quality Education particularly Target 4.7 and Indicator 4.7.1 This book is highly suitable for postgraduate students and researchers to get the state of the art current research directions as well as for the scientists that have an interest and working in intelligent numerical modelling and simulations through AI Machine Learning Neural Networks and its related counterparts

Computational Intelligence in Biomedical Engineering Rezaul Begg, Daniel T.H. Lai, Marimuthu Palaniswami, 2007-12-04 As in many other fields biomedical engineers benefit from the use of computational intelligence CI tools to solve complex and non linear problems The benefits could be even greater if there were scientific literature that specifically focused on the biomedical applications of computational intelligence techniques The first comprehensive field

*Hybrid Information Systems* Ramakant Bhardwaj, Pushan Kumar Dutta, Pethuru Raj, Abhishek Kumar, Kavita Saini, Alfonso González Briones, Mohammed K.A. Kaabar, 2024-07-22 The book provides comprehensive and cognitive approach to building and deploying sophisticated information systems The book utilizes non linear optimization techniques fuzzy logic and rough sets to model various real world use cases for the digital era The hybrid information system modeling handles both qualitative and quantitative data and can effectively handle uncertainty and imprecision in the data The combination of non linear optimization mechanisms

fuzzy logic and rough sets provides a robust foundation for next generation information systems that can fulfill the demands of adaptive aware and adroit software applications for the knowledge era The book emphasizes the importance of the hybrid approach which combines the strengths of both mathematical and AI techniques to achieve a more comprehensive and effective modeling process Hybrid information system modeling techniques combine different approaches such as fuzzy logic rough sets and neural networks to create models that can handle the complexity and uncertainty of real world problems These techniques provide a powerful tool for modeling and analyzing complex systems and the applications of hybrid information system modeling demonstrate their potential for solving real world problems in various fields

Electronic Health Records - Issues and Challenges in Healthcare Systems ,2025-06-04 The increasing use of electronic health records EHRs propelled by the Internet and network technologies is transforming healthcare EHR systems facilitate a dynamic platform for users and stakeholders to interact and share information This growth is further increased by the proliferation of smart devices fostering a new era of knowledge sharing in healthcare However alongside the rapid expansion of EHR systems concerns about individual privacy are escalating The ease of accessing personal data makes EHR systems prime targets for sophisticated cyber attacks Furthermore the huge volume of data within these systems is growing exponentially posing significant challenges in data analysis and management EHR systems are increasingly crucial for healthcare research with many researchers relying on this data to develop applications leveraging Big Data the Internet of Things IoT and Mobile Cloud technologies Consequently a thorough examination and analysis of EHR systems are essential to address the various challenges inherent in healthcare systems This book will explore and resolve these issues and challenges It seeks contributions that discuss diverse aspects of EHR systems including novel strategies and developments across different technologies In addition it will examine the impact of cutting edge innovations on EHR systems offering insights into the future trajectory of healthcare technology and data management

**AI-Driven Innovations in Digital Healthcare: Emerging Trends, Challenges, and Applications** Khang, Alex,2024-02-09 Within the healthcare sector a pressing need for transformative changes is growing From chronic diseases to complex diagnostic procedures the industry stands at the crossroads of technological innovation and a burgeoning demand for more efficient precise interventions Patient expectations are soaring and the deluge of medical data is overwhelming traditional healthcare systems It is within this challenging environment that AI Driven Innovations in Digital Healthcare Emerging Trends Challenges and Applications emerges as a beacon of insight and practical solutions The traditional healthcare framework is struggling to keep pace with the diverse demands of patients and the ever expanding volume of medical data As diseases become more intricate attempts to provide timely identification and precise treatment of ailments become increasingly elusive The urgency for a paradigm shift in healthcare delivery is emphasized by the critical need for early interventions particularly in disease prediction This challenge necessitates a holistic approach that harnesses the power of artificial intelligence AI and innovative technologies to steer

healthcare toward a more responsive and patient centric future

### **Clinical Practice and Unmet Challenges in**

**AI-Enhanced Healthcare Systems** Liu, Haipeng, Tripathy, Rajesh Kumar, Bhattacharya, Pronaya, 2024-08-05 As the demand for advanced technologies to revolutionize patient care intensifies the medical industry faces a pressing need to confront challenges hindering the assimilation of AI enhanced healthcare systems Issues such as data interoperability ethical considerations and the translation of AI advancements into practical clinical applications pose formidable hurdles that demand immediate attention It is within this context of challenges and opportunities that the book Clinical Practice and Unmet Challenges in AI Enhanced Healthcare Systems promises to pave the way for a transformative era in healthcare The book serves as a comprehensive guide for academic scholars researchers and healthcare professionals navigating the dynamic landscape of data driven AI enhanced healthcare By showcasing the latest advancements the book empowers its readers to not only comprehend the existing frontiers in data sciences and healthcare technologies but also to actively contribute to overcoming obstacles Through detailed case studies and practical guidance the publication equips its audience with the skills necessary to implement AI in various clinical settings

### **Deep Learning in Medical Image Analysis**

R. Indrakumari, T. Ganesh Kumar, D. Murugan, Sherimon P.C., 2024-07-10 This book is designed as a reference text and provides a comprehensive overview of conceptual and practical knowledge about deep learning in medical image processing techniques The post pandemic situation teaches us the importance of doctors medical analysis and diagnosis of diseases in a rapid manner This book provides a snapshot of the state of current research between deep learning medical image processing and health care with special emphasis on saving human life The chapters cover a range of advanced technologies related to patient health monitoring predicting diseases from genomic data detecting artefactual events in vital signs monitoring data and managing chronic diseases This book Delivers an ideal introduction to image processing in medicine emphasizing the clinical relevance and special requirements of the field Presents key principles by implementing algorithms from scratch and using simple MATLAB Octave scripts with image data Provides an overview of the physics of medical image processing alongside discussing image formats and data storage intensity transforms filtering of images and applications of the Fourier transform three dimensional spatial transforms volume rendering image registration and tomographic reconstruction Highlights the new potential applications of machine learning techniques to the solution of important problems in biomedical image applications This book is for students scholars and professionals of biomedical technology and healthcare data analytics

### **Navigating Innovations and Challenges in Travel Medicine and Digital Health**

Saurabh Agarwal, D. Lakshmi, Lalit Singh, 2025 This book explores critical issues at the crossroads of travel medicine and digital health aiming to prepare doctors policymakers technology developers and public health officials with in depth analyses and practical solutions Provided by publisher

### Artificial Intelligence-Based System Models in Healthcare

A. Jose Anand, K. Kalaiselvi, Jyotir Moy Chatterjee, 2024-10-01 Artificial Intelligence Based System Models in Healthcare provides a

comprehensive and insightful guide to the transformative applications of AI in the healthcare system This book is a groundbreaking exploration of the synergies between artificial intelligence and healthcare innovation In an era where technological advancements are reshaping the landscape of medical practices this book provides a comprehensive and insightful guide to the transformative applications of AI in healthcare systems From conceptual foundations to practical implementations the book serves as a roadmap for understanding the intricate relationships between AI based system models and the evolution of healthcare delivery The first section delves into the fundamental role of technology in reshaping the healthcare landscape With a focus on daily life activities decision support systems vision based management and semantic frameworks this section lays the groundwork for understanding the pivotal role of AI in revolutionizing traditional healthcare approaches Each chapter offers a unique perspective emphasizing the intricate integration of technology into healthcare ecosystems The second section takes a deep dive into specific applications of AI ranging from predictive analysis and machine learning to deep learning image analysis and biomedical text processing With a focus on decision making support systems this section aims to demystify the complex world of AI algorithms in healthcare offering valuable insights into their practical implications and potential impact on patient outcomes The final section addresses the modernization of healthcare practices and envisions the future landscape of AI applications From medical imaging and diagnostics to predicting ventilation needs in intensive care units modernizing health record maintenance natural language processing chatbots for medical inquiries secured health insurance management and glimpses into the future the book concludes by exploring the frontiers of AI driven healthcare innovations Audience This book is intended for researchers and postgraduate students in artificial intelligence and the biomedical and healthcare sectors Medical administrators policymakers and regulatory specialists will also have an interest

### **Digital Transformation in Healthcare 5.0** Rishabha Malviya, Sonali

Sundram, Rajesh Kumar Dhanaraj, Seifedine Kadry, 2024-05-06 Digital Transformation in Healthcare 5.0 IoT AI and Digital Twin provides a comprehensive overview of the integration of cutting edge technology with healthcare from the Fourth Industrial Revolution 4IR to the introduction of IoT AI and Digital Twin technologies This in depth discussion of the digital revolution expanding the healthcare industry covers a wide range of topics including digital disruption in healthcare delivery the impact of 4IR and Health 4.0 e health services and applications virtual reality's impact on accessible healthcare delivery digital twins and dietary health technologies big data analytics in healthcare systems machine learning models for cost effective healthcare delivery systems affordable healthcare with machine learning enhanced biomedical signal processing with machine learning and data driven AI for information retrieval of biomedical images

### **Revolutionizing Healthcare 5.0: The Power of Generative AI** Pronaya Bhattacharya, Haipeng Liu, Pushan Kumar Dutta, Joel J. P. C. Rodrigues, Gautam Sethi, 2025-02-18 This book serves as a critical resource that bridges the gap between burgeoning technology and its practical implementation The book starts with an in depth exploration of healthcare 5.0 principles laying the foundation for

the reader to understand the current shifts in healthcare paradigms Then it dives into the intricacies of generative models in healthcare detailing how these algorithms work and the applications they serve The book further delves into the subsets of generative machine learning and deep learning techniques in healthcare As we move towards more complex applications the book takes a turn to address the critical subject of interpretability and explainability in generative models a topic that resonates profoundly given the life critical nature of medical decisions Finally the book concludes with a robust discussion on the security and privacy concerns that accompany the deployment of GAI in real healthcare settings By offering a multidimensional viewpoint coupled with case studies statistical analyses and expert insights the book ensures that the reader is left with a nuanced understanding of how GAI can be both a boon and a challenge in healthcare As such the proposed book serves as an indispensable resource for healthcare professionals data scientists researchers and anyone invested in the future of healthcare and AI

*Challenges in Information, Communication and Computing Technology V.* Sharmila,S. Kannadhasan,A. Rajiv Kannan,P. Sivakumar,V. Vennila,2024-12-10 This book explores the critical challenges and emerging trends in Information Communication and Computing Technology ICCT It provides a comprehensive overview of the key issues facing these rapidly evolving fields from data security and privacy to advancements in artificial intelligence communication networks and quantum computing Through in depth analysis and expert perspectives this volume aims to shed light on the complexities of ICCT and offer innovative solutions for researchers practitioners and students Building on its exploration of challenges in ICCT this book delves into several core areas These include the development and deployment of secure and efficient communication networks the ethical implications and technical hurdles of artificial intelligence and machine learning and the promise and complexity of quantum computing The book also addresses the management of big data highlighting both its potential and the challenges of ensuring data privacy and security Additionally it examines the role of sustainability in computing advocating for greener technologies and practices The findings presented in this volume emphasize the need for interdisciplinary approaches and innovative thinking to address these challenges offering insights that are both practical and forward looking This book is intended for a diverse audience that includes researchers practitioners and students in the fields of Information Communication and Computing Technology ICCT It is particularly valuable for academics and professionals seeking to deepen their understanding of current challenges and emerging trends in these areas Additionally policymakers industry leaders and technologists will find the book s insights useful for informing decisions and strategies in the development and implementation of advanced technologies Whether you are a seasoned expert or a newcomer to the field this book provides valuable perspectives that can enhance your knowledge and contribute to your work in ICCT The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license

[Federated Learning in Metaverse Healthcare](#) Shubham Mahajan,Jyotir Moy Chatterjee,2025-09-12 Federated Learning in Metaverse Healthcare



Personalized Medicine and Wellness explores the integration of the metaverse with healthcare offering immersive experiences and personalized care The book introduces federated learning emphasizing its advantages over traditional centralized machine learning in healthcare It provides a historical context and discusses the technological advancements that led to the emergence of metaverse healthcare Privacy preserving methods crucial for protecting sensitive healthcare data within federated learning environments are also examined underscoring the importance of secure communication protocols Other important points include the transformation of healthcare delivery through virtual environments remote consultations and immersive experiences The role of telemedicine in facilitating remote diagnostics and consultations via virtual platforms and the applications of augmented reality wearables for real time health monitoring and wellness tracking are detailed Additionally the book discusses federated learning s ability to deliver personalized treatment plans tailored to individual patient needs its role in predictive modeling for disease risks and prevention as well as virtual health coaches offering personalized guidance for wellness management The challenges and ethical dilemmas of metaverse healthcare and federated learning along with potential solutions are also considered Explains privacy preserving techniques in federated learning such as federated averaging differential privacy and secure aggregation thus ensuring the protection of sensitive healthcare data Presents use cases and case studies that demonstrate the practical applications of federated learning in virtual healthcare settings Illustrates its impact on patient care medical research and healthcare innovation Contains contributions from leading experts in the fields of healthcare artificial intelligence and virtual reality providing valuable insights and perspectives on the intersection of federated learning and metaverse healthcare

**Pioneering Smart Healthcare 5.0 with IoT, Federated Learning, and Cloud Security** Hassan, Ahdi, Prasad, Vivek Kumar, Bhattacharya, Pronaya, Dutta, Pushan Kumar, Damaševičius, Robertas, 2024-02-14 The Healthcare sector is experiencing a mindset change with the advent of Healthcare 5.0 bringing forth improved patient care and system efficiency However this transformation poses significant challenges The growing digitization of healthcare systems raises concerns about the security and privacy of patient data making seamless data sharing and collaboration increasingly complex tasks Additionally as the volume of healthcare data expands exponentially efficient handling and analysis become vital for optimizing healthcare delivery and patient outcomes Addressing these multifaceted issues is crucial for healthcare professionals IT experts data scientists and researchers seeking to fully harness the potential of Healthcare 5.0 Pioneering Smart Healthcare 5.0 with IoT Federated Learning and Cloud Security presents a comprehensive solution to the pressing challenges in the digitalized healthcare industry This research book dives into the principles of Healthcare 5.0 and explores practical implementation through cloud computing data analytics and federated learning Readers will gain profound insights into the role of cloud computing in managing vast amounts of healthcare data such as electronic health records and real time analytics Cloud based frameworks architectures and relevant use cases are explored to optimize healthcare delivery and improve patient outcomes

**Big Data in**

**Oncology: Impact, Challenges, and Risk Assessment** Neeraj Kumar Fuloria, Rishabha Malviya, Swati Verma, Balamurugan Balusamy, 2023-12-21 We are in the era of large scale science In oncology there is a huge number of data sets grouping information on cancer genomes transcriptomes clinical data and more The challenge of big data in cancer is to integrate all this diversity of data collected into a unique platform that can be analyzed leading to the generation of readable files The possibility of harnessing information from all the accumulated data leads to an improvement in cancer patient treatment and outcome Solving the big data problem in oncology has multiple facets Big data in Oncology Impact Challenges and Risk Assessment brings together insights from emerging sophisticated information and communication technologies such as artificial intelligence data science and big data analytics for cancer management This book focuses on targeted disease treatment using big data analytics It provides information about targeted treatment in oncology challenges and application of big data in cancer therapy Recent developments in the fields of artificial intelligence machine learning medical imaging personalized medicine computing and data analytics for improved patient care Description of the application of big data with AI to discover new targeting points for cancer treatment Summary of several risk assessments in the field of oncology using big data Focus on prediction of doses in oncology using big data The most targeted or relevant audience is academics research scholars health care professionals hospital management pharmaceutical chemists the biomedical industry software engineers and IT professionals

*Leveraging Metaverse and Analytics of Things (AoT) in Medical Systems* D. Jude Hemanth, P Mary Jeyanthi, 2024-11-16 *Leveraging Metaverse and Analytics of Things AoT in Medical Systems* explores the potential benefits and applications of emerging technologies such as metaverse and AoT in the field of healthcare The book provides insights into how these technologies can be leveraged to improve the efficiency effectiveness and quality of medical systems It explores the concept of metaverse and its potential applications in healthcare including the use of virtual and augmented reality technologies for medical education training and simulation as well as the development of immersive environments for patient care and therapy The book also delves into the field of AoT such as the use of wearable devices smart sensors and other connected technologies to monitor patient health track medical outcomes and inform clinical decision making Integrating both technologies can help improve medical training diagnosis treatment and patient outcomes through the use of virtual reality and real time data analytics Features research methods data analysis techniques and best practices related to the implementation of Metaverse and Analytics of Things AoT in medical systems Provides practical guidance and recommendations on how healthcare organizations can adopt and implement Metaverse and Analytics of Things AoT in their operations Includes case studies and real world examples of how healthcare organizations have successfully leveraged technology and data analytics to improve patient care and operational efficiency

**Multidisciplinary Approach in Research Area (Volume-9)** Chief Editor- Biplab Auddya, Editor- Dr.M.Muthulakshmi, Viswaraju Udayabhaskar, Dr. Devimeenakshi.k., Dr. Haribhau Mahipati Borate, Ms.Saswati Jena, V Geetha, 2024-04-17

## Decoding **Neural Networks In Healthcare Potential And Challenges**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Neural Networks In Healthcare Potential And Challenges**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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