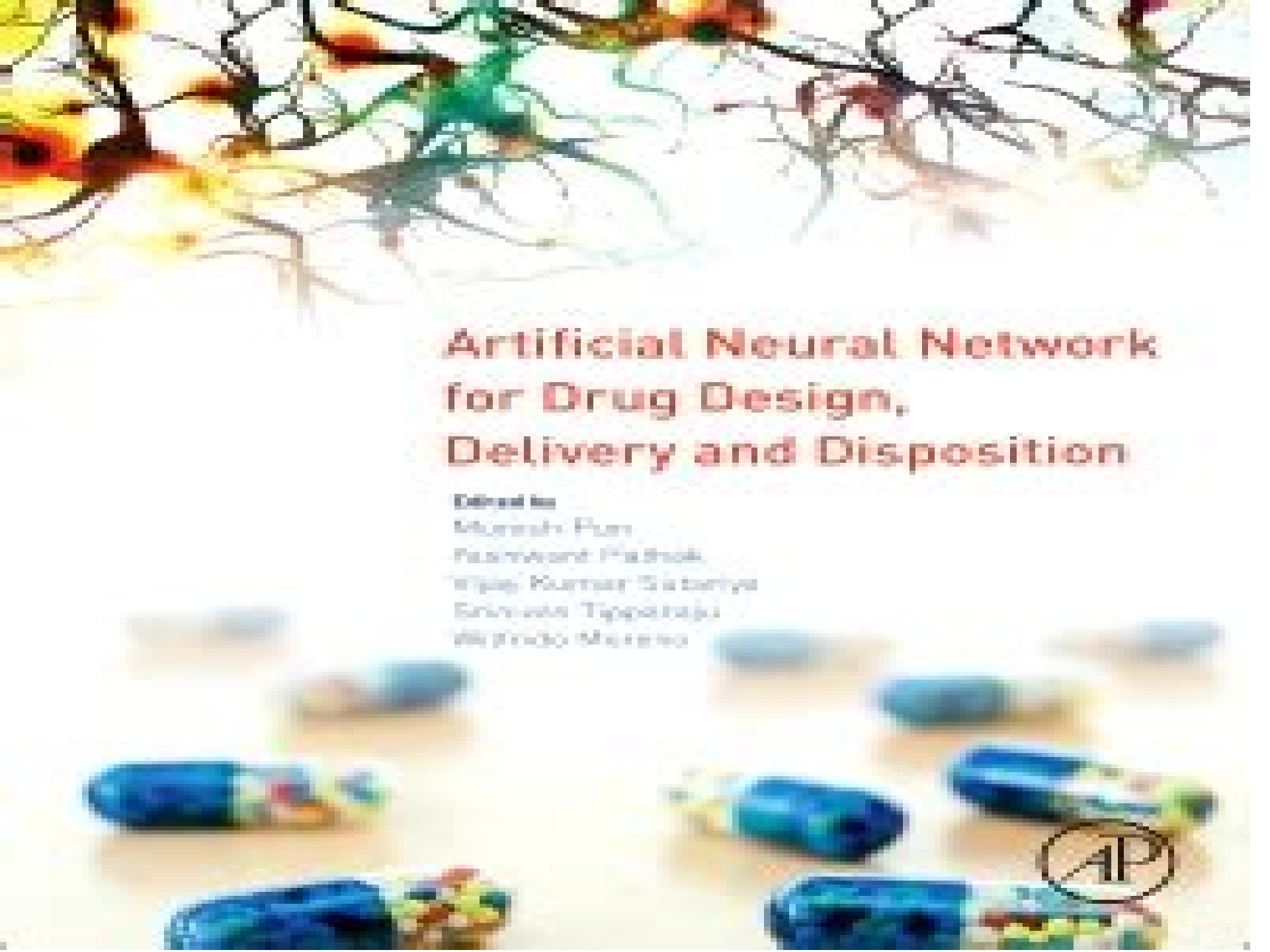




Artificial Neural Network for Drug Design, Delivery and Disposition

Edited by

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Wijay Kumar Sathya

Erinika Tippaiah

Wafido Marwa



Artificial Neural Network For Drug Design Delivery And Disposition

**Seth Kwabena Amponsah, Yashwant V.
Pathak**



Artificial Neural Network For Drug Design Delivery And Disposition:

Artificial Neural Network for Drug Design, Delivery and Disposition Munish Puri, Yashwant Pathak, Vijay Kumar Sutariya, Srinivas Tipparaju, Wilfrido Moreno, 2015-10-15 Artificial Neural Network for Drug Design Delivery and Disposition provides an in depth look at the use of artificial neural networks ANN in pharmaceutical research With its ability to learn and self correct in a highly complex environment this predictive tool has tremendous potential to help researchers more effectively design develop and deliver successful drugs This book illustrates how to use ANN methodologies and models with the intent to treat diseases like breast cancer cardiac disease and more It contains the latest cutting edge research an analysis of the benefits of ANN and relevant industry examples As such this book is an essential resource for academic and industry researchers across the pharmaceutical and biomedical sciences Written by leading academic and industry scientists who have contributed significantly to the field and are at the forefront of artificial neural network ANN research Focuses on ANN in drug design discovery and delivery as well as adopted methodologies and their applications to the treatment of various diseases and disorders Chapters cover important topics across the pharmaceutical process such as ANN in structure based drug design and the application of ANN in modern drug discovery Presents the future potential of ANN based strategies in biomedical image analysis and much more

Current Trends in Drug Discovery, Development and Delivery (CTD4-2022) Manikanta Murahari, Buchi N Nalluri, G Chakravarthi, 2023-12-15 This publication is based on peer reviewed manuscripts from the 2022 Conference on Current Trends in Drug Discovery Development and Delivery CTD4 2022 held at KL University India Providing a wide range of up to date topics on the latest advancements in drug design and discovery technologies this book ensures the reader receives a good understanding of the scope of the field Aimed at scientists students regulators academics and consultants throughout the world this book is an ideal resource for anyone interested in the state of the art in drug design and discovery

Recent Advances in Therapeutic Drug Monitoring and Clinical Toxicology Seth Kwabena Amponsah, Yashwant V. Pathak, 2022-10-25 This book gives an overview of therapeutic drug monitoring TDM and its clinical application It also highlights recent advances in toxicological studies as they relate to therapeutic drug monitoring This is one of the few books available on the market that covers TDM Therapeutic drug monitoring TDM is a clinical decision making tool that enables dosage regimen adjustments based on clinical and laboratory measurements TDM not only involves the measuring of drug concentrations but also interpretation of the results There is a strong correlation between drug concentrations in body fluids and outcome than between dose and outcome The chapters include coverage of analytical techniques pharmacokinetics therapeutic indices artificial intelligence and recent advances in toxicological studies The book fills a gap in published literature and provides reliable information on Analytical techniques in TDM and clinical toxicology TDM and pharmacokinetic studies TDM of drugs with narrow therapeutic indices Artificial intelligence in TDM and clinical toxicology Future directions and challenges

3D Printing of Pharmaceuticals and Drug

Delivery Devices Dimitrios A. Lamprou, 2020-07-01 The 3D printing 3DP process was patented in 1986 however only in the last decade has it begun to be used for medical applications as well as in the fields of prosthetics bio fabrication and pharmaceutical printing 3DP or additive manufacturing AM is a family of technologies that implement layer by layer processes in order to fabricate physical models based on a computer aided design CAD model 3D printing permits the fabrication of high degrees of complexity with great reproducibility in a fast and cost effective fashion 3DP technology offers a new paradigm for the direct manufacture of individual dosage forms and has the potential to allow for variations in size and geometry as well as control dose and release behavior Furthermore the low cost and ease of use of 3DP systems means that the possibility of manufacturing medicines and medical devices at the point of dispensing or at the point of use could become a reality 3DP thus offers the perfect innovative manufacturing route to address the critical capability gap that hinders the widespread exploitation of personalized medicines for molecules that are currently not easy to deliver This Special Issue will address new developments in the area of 3D printing and bioprinting for drug delivery applications covering the recent advantages and future directions of additive manufacturing for pharmaceutical products *Principles of Research Methodology and Ethics in Pharmaceutical Sciences* Vikas Anand Saharan, Hitesh Kulhari, Hemant R Jadhav, 2024-08-30

Pharmaceutical researchers are constantly looking for drug products drug delivery systems and devices for improving the health of society A scientific and systematic search for new knowledge requires a thorough understanding of research methods and hypothesis design This volume presents pharmaceutical research through theoretical concepts methodologies and ethical issues It fulfils publication ethics course work requirements for students Chapters have been designed to cater for the curriculum requirements of universities globally This serves as a guide on how to apply concepts in designing experiments and transforming laboratory research into actual practice Features Complete coverage of research methodology courses for graduate and postgraduate students globally Step by step assistance in writing technical reports projects protocols theses and dissertations Experimental designing in pharmaceutical formulation development and preclinical research designs Ethics in using animals in preclinical research and humans in clinical research Publication ethics best practices and guidelines for ensuring ethical writing Hypothetical and real world case studies on ethical issues and measures for prevention and control **Computational Biology in Drug Discovery and Repurposing** Rajani Sharma, A. V. Senthil Kumar, Kunal Kumar, 2024-08-16

This new book takes an in depth look at the emerging and prospective field of computational biology and bioinformatics which possesses the ability to analyze large accumulated biological data collected from sequence analysis of proteins and genes and cell population with an aim to make new predictions pertaining to drug discovery and new biology The book explains the basic methodology associated with a bioinformatics and computational approach in drug designing It then goes on to cover the implementation of computational programming bioinformatics pharmacophore modeling biotechnological techniques and pharmaceutical chemistry in designing drugs The major advantage of intervention

of computer language or programming is to cut down the number of steps and costs in the field of drug designing reducing the repeating steps and saving time in screening the potent component for drug or vaccine designing The book describes algorithms used for drug designing and the use of machine learning and AI in drug delivery and disease diagnosis which are valuable in clinical decision making The implementation of robotics in different diseases like stroke cancer COVID 19 etc is also addressed Topics include machine learning AI databases in drug design molecular docking bioinformatics tools target based drug design and immunoinformatics chemoinformatics and nanoinformatics in drug design Drug repurposing in drug design in general as well as for specific diseases including cancer Alzheimer s disease tuberculosis COVID 19 etc is also addressed in depth

Artificial Intelligence and Machine Learning in Drug Design and Development Abhirup Khanna, May El Barachi, Sapna Jain, Manoj Kumar, Anand Nayyar, 2024-07-18 The book is a comprehensive guide that explores the use of artificial intelligence and machine learning in drug discovery and development covering a range of topics including the use of molecular modeling docking identifying targets selecting compounds and optimizing drugs The intersection of Artificial Intelligence AI and Machine Learning ML within the field of drug design and development represents a pivotal moment in the history of healthcare and pharmaceuticals The remarkable synergy between cutting edge technology and the life sciences has ushered in a new era of possibilities offering unprecedented opportunities formidable challenges and a tantalizing glimpse into the future of medicine AI can be applied to all the key areas of the pharmaceutical industry such as drug discovery and development drug repurposing and improving productivity within a short period Contemporary methods have shown promising results in facilitating the discovery of drugs to target different diseases Moreover AI helps in predicting the efficacy and safety of molecules and gives researchers a much broader chemical pallet for the selection of the best molecules for drug testing and delivery In this context drug repurposing is another important topic where AI can have a substantial impact With the vast amount of clinical and pharmaceutical data available to date AI algorithms find suitable drugs that can be repurposed for alternative use in medicine This book is a comprehensive exploration of this dynamic and rapidly evolving field In an era where precision and efficiency are paramount in drug discovery AI and ML have emerged as transformative tools reshaping the way we identify design and develop pharmaceuticals This book is a testament to the profound impact these technologies have had and will continue to have on the pharmaceutical industry healthcare and ultimately patient well being The editors of this volume have assembled a distinguished group of experts researchers and thought leaders from both the AI ML and pharmaceutical domains Their collective knowledge and insights illuminate the multifaceted landscape of AI and ML in drug design and development offering a roadmap for navigating its complexities and harnessing its potential In each section readers will find a rich tapestry of knowledge case studies and expert opinions providing a 360 degree view of AI and ML s role in drug design and development Whether you are a researcher scientist industry professional policymaker or simply curious about the future of medicine this book offers 19 state of the art chapters providing valuable insights and a

compass to navigate the exciting journey ahead Audience The book is a valuable resource for a wide range of professionals in the pharmaceutical and allied industries including researchers scientists engineers and laboratory workers in the field of drug discovery and development who want to learn about the latest techniques in machine learning and AI as well as information technology professionals who are interested in the application of machine learning and artificial intelligence in drug development

Nanotechnology Principles in Drug Targeting and Diagnosis Mahendra Rai, Shagufta Khan, Aarti Belgamwar, 2023-07-26 Nanotechnology Principles in Drug Targeting and Diagnosis focuses on the nanotechnology principles and mechanisms involved in drug targeting nano carriers and target interactions associated with particular diseases The book addresses how phytotherapeutics are effective against solid tumors and how they can be used in designing targeted delivery systems Also addressed is the use of macrophages as the biomimetic carrier for targeting drugs to different organs Sections cover the nanotechnology based concepts in drug targeting strategies for drug targeting ways to identify drug carrier target interaction the concept of an artificial neural network in identifying drug target interaction and more The book's final section concentrates on the role of nanotechnology in medical diagnosis throwing light on nanoscale sensors for the diagnosis of viruses in the bloodstream and biomarkers indicating various cancers This is an important reference source for materials scientists and pharmaceutical scientists who want to understand how nanotechnology plays an important role in creating more efficient drug targeting and delivery systems Provides extensive coverage of methods of drug carrier target identification and the capability of artificial intelligence to recognize patterns in patients using these patterns for nanocarrier design Helps readers understand how nanocarriers must be functionalized for effective targeted delivery and how they can be useful tools for personalized and precise treatment of diseases Assesses the role of nanoscale sensors in the early detection of cancer cells in the bloodstream

Ionic Gelled Biopolysaccharide Based Systems in Drug Delivery Amit Kumar Nayak, Md Saquib Hasnain, Dilipkumar Pal, 2021-07-05 This volume provides a thorough insight into the chemistry and mechanism of ionic gelations of various ionic biopolysaccharides like alginate gellan gum pectin chitosan carboxymethyl cellulose etc and the applications of various ionically gelled biopolysaccharides in drug delivery fields with chapters emphasizing the recent advances in the field by the experts This book will be of interest to graduate students and academic and industry researchers from pharmacy biotechnology bioengineering biomedical and material sciences fields

Current Trends in Computational Modeling for Drug Discovery Supratik Kar, Jerzy Leszczynski, 2023-06-30 This contributed volume offers a comprehensive discussion on how to design and discover pharmaceuticals using computational modeling techniques The different chapters deal with the classical and most advanced techniques theories protocols databases and tools employed in computer aided drug design CADD covering diverse therapeutic classes Multiple components of Structure Based Drug Discovery SBDD along with its workflow and associated challenges are presented while potential leads for Alzheimer's disease AD antiviral agents anti human immunodeficiency virus HIV drugs and leads for

Severe Fever with Thrombocytopenia Syndrome Virus SFTSV disease are discussed in detail Computational toxicological aspects in drug design and discovery screening adverse effects and existing or future in silico tools are highlighted while a novel in silico tool RASAR which can be a major technique for small to big datasets when not much experimental data are present is presented The book also introduces the reader to the major drug databases covering drug molecules chemicals therapeutic targets metabolomics and peptides which are great resources for drug discovery employing drug repurposing high throughput and virtual screening This volume is a great tool for graduates researchers academics and industrial scientists working in the fields of cheminformatics bioinformatics computational biology and chemistry *Computer-Aided Applications in Pharmaceutical Technology* Jelena Duris,2023-09-07 Computer Aided Applications in Pharmaceutical Technology Delivery Systems Dosage Forms and Pharmaceutical Unit Operations Second Edition covers the fundamentals of experimental design application and interpretation in pharmaceutical technology chemometric methods with an emphasis on their applications in process control neural computing data science computer aided biopharmaceutical characterization as well as the application of computational fluid dynamics in pharmaceutical technology Completely updated the book introduces the theory and practice of computational tools through new case studies Chapters cover Quality by Design in pharmaceutical development overview data mining methodologies present computer aided formulation development cover experimental design applications and much more Presents a comprehensive review of the current state of the art on various computer aided applications in pharmaceutical technology Includes case studies to facilitate understanding of various concepts in computer aided applications Covers applications such as the development of dosage forms and or delivery systems pharmaceutical unit operations and relevant physiologically based pharmacokinetic simulations **Recent Advances in Transportation Systems Engineering and Management—Volume 1** K. V. R. Ravi Shankar,C. S. R. K. Prasad,C. Mallikarjuna,S. N. Suresha,2024-10-02 The book presents select proceedings of the 9th Conference on Transportation Systems Engineering and Management CTSEM 2023 It broadly covers areas of transportation engineering namely traffic engineering and safety transportation planning and pavement engineering In particular the book delves into the current research in specific areas including but not limited to intelligent transportation systems and applications public transport planning and management urban and regional transportation planning freight transport and logistics traffic flow modeling and management highway design and maintenance pavement materials and characterization accident investigations and crash preventive measures pedestrian facilities and safety pavement design and construction pavement evaluation and management and sustainable transportation It also sheds light on topics like Artificial Intelligence AI big data and the Internet of Things IoT and their application in transportation systems This book will be a valuable resource for researchers and professionals in transportation engineering and civil engineering **Basics and Clinical Applications of Drug Disposition in Special Populations** Seth Kwabena Amponsah,Yashwant V. Pathak,2025-04-03 An up to date

exploration of techniques for effectively treating patients from special populations In Basics and Clinical Applications of Drug Disposition in Special Populations a team of distinguished researchers delivers a timely and authoritative discussion of how to predict drug disposition in special populations including people with obesity pediatric patients geriatric patients and patients with renal and hepatic impairment The authors use pharmacokinetic models to account for variabilities between populations and to better predict drug disposition The book offers a collection of 15 chapters written by recognized experts in their respective fields They cover topics ranging from the optimization of drug dosing regimens in specialized populations to model based approaches in drug treatment among pediatrics Readers will also find A thorough introduction to considerations and regulatory affairs for clinical research in special populations Comprehensive explorations of drug disposition in geriatrics patients with hepatic insufficiency and patients with renal insufficiency Practical discussions of model based pharmacokinetic approaches Complete treatments of artificial intelligence in drug development Perfect for practicing pharmacologists pharmacists and clinical chemists Basics and Clinical Applications of Drug Disposition in Special Populations will also benefit medical professionals who provide medical and pharmaceutical care to special populations

Soft Computing Techniques in Connected Healthcare Systems Moolchand Sharma, Suman Deswal, Umesh Gupta, Mujahid Tabassum, Isah Lawal, 2023-12-20 This book provides an examination of applications of soft computing techniques related to healthcare systems and can be used as a reference guide for assessing the roles of various techniques Soft Computing Techniques in Connected Healthcare Systems presents soft computing techniques and applications used in healthcare systems along with the latest advancements The authors examine how connected healthcare is the essence of combining a practical operative procedure of interconnectedness of electronic health records mHealth clinical informatics electronic data exchange practice management solutions and pharmacy management The book focuses on different soft computing techniques such as fuzzy logic ANN and GA which will enhance services in connected health systems such as remote diagnosis and monitoring medication monitoring devices identifying and treating the underlying causes of disorders and diseases improved access to specialists and lower healthcare costs The chapters also examine descriptive predictive and social network techniques and discuss analytical tools and the important role they play in enhancing the services to connected healthcare systems Finally the authors address real time challenges with real world case studies to enhance the comprehension of topics This book is intended for under graduate and graduate students researchers and practicing professionals in the field of connected healthcare It provides an overview for beginners while also addressing professionals in the industry on the importance of soft computing approaches in connected healthcare systems

Improving Animal Welfare Temple Grandin, 2020-12-08 Completely revised updated and with four new chapters on sustainability new technologies precision agriculture and the future of animal welfare This book is edited by an outstanding world expert on animal welfare it emphasizes throughout the importance of measuring conditions that compromise welfare such as lameness

heat stress body condition and bruises during transport The book combines scientific information with practical recommendations for use on commercial operations and reviews practical information on livestock handling euthanasia slaughter pain relief and assessments of abnormal behavior

Optimization Tools and Techniques for Enhanced Computational Efficiency Rai, Hari Mohan,Razaque, Abdul,2025-04-08 Optimization techniques play a pivotal role in modern research and development across various engineering and technology sectors It allows these methods to integrate cutting edge concepts and sophisticated computational capabilities to provide robust solutions for intricate problems Optimization has emerged as a rapidly evolving multidisciplinary field serving as a conduit between industry and academia with the primary goal of streamlining processes minimizing resource wastage and accelerating the time to market for new products and technologies Optimization Tools and Techniques for Enhanced Computational Efficiency sheds light on the widespread application and importance of optimization techniques By showcasing how researchers employ these tools to efficiently design and enhance products systems and processes across diverse industries it highlights the interdisciplinary nature of optimization research fosters innovation in various fields beyond traditional boundaries Covering topics such as biomedical engineering smart cities and student performance this book is an excellent resource for engineers scientists technologists policymakers industry practitioners educators professionals researchers scholars academics and more

Artificial Intelligence for Health 4.0: Challenges and Applications Rishabha Malviya,Naveen Chilamkurti,Sonali Sundram,Rajesh Kumar Dhanaraj,Balamurugan Balusamy,2023-03-10 Healthcare is one of the major success stories of our times Medical science has improved rapidly raising life expectancy around the world However as longevity increases healthcare systems face growing demands for their services rising costs and a workforce that is struggling to meet the needs of its patients Healthcare is one of the most critical sectors in the broader landscape of big data because of its fundamental role in a productive thriving society Building on automation artificial intelligence AI has the potential to revolutionize healthcare and help address some of the challenges set out above The application of AI to healthcare data can literally be a matter of life and death AI can assist doctors nurses and other healthcare workers in their daily work AI in healthcare can enhance preventive care and quality of life produce more accurate diagnoses and treatment plans and lead to better patient outcomes overall This book gives insights into the latest developments of applications of AI in biomedicine including disease diagnostics pharmaceutical processing patient care and monitoring biomedical information and biomedical research It also presents an outline of the recent breakthroughs in the application of AI in healthcare describes a roadmap to building effective reliable and safe AI systems and discusses the possible future direction of AI augmented healthcare systems AI has countless applications in healthcare Whether it s being used to discover links between genetic codes to power surgical robots or even to maximize hospital efficiency AI has been a boon to the healthcare industry

Artificial Intelligence for Air Quality Monitoring and Prediction Amit Awasthi,Kanhu Charan Pattnayak,Gaurav Dhiman,Pushp Raj Tiwari,2024-10-02 This book is a

comprehensive overview of advancements in artificial intelligence AI and how it can be applied in the field of air quality management It explains the linkage between conventional approaches used in air quality monitoring and AI techniques such as data collection and preprocessing deep learning machine vision natural language processing and ensemble methods The integration of climate models and AI enables readers to understand the relationship between air quality and climate change Different case studies demonstrate the application of various air monitoring and prediction methodologies and their effectiveness in addressing real world air quality challenges Features A thorough coverage of air quality monitoring and prediction techniques In depth evaluation of cutting edge AI techniques such as machine learning and deep learning Diverse global perspectives and approaches in air quality monitoring and prediction Practical insights and real world case studies from different monitoring and prediction techniques Future directions and emerging trends in AI driven air quality monitoring This is a great resource for professionals researchers and students interested in air quality management and control in the fields of environmental science and engineering atmospheric science and meteorology data science and AI

Biotechnological Interventions Augmenting Livestock Health and Production Chandra Sekhar Mukhopadhyay,Ratan Kumar Choudhary,Harsh Panwar,Yashpal Singh Malik,2023-09-22 This book comprehensively discusses the applications of molecular genetics functional and structural genomics and proteomics vis a vis bioinformatics artificial intelligence and robotics in livestock healthfulness and productivity It reviews the biotechnological approaches in veterinary sciences for increasing productivity and resistance to disease The book emphasizes the approaches based on artificial intelligence to analyze the data collected on animals pathogens and their environment It underscores artificial intelligence applications in disease diagnosis epidemiological studies and detecting biological phenomena including heat detection pregnancy docility and infections Further the book examines the genomics and proteomics approaches for understanding the gut microbiota and the role of pathogen host interactions in animal health and disease Lastly it explores both pathogenic and non pathogenic microbial transfer between humans animals and the environment across one health spectrum *COVID-19 Pandemic*

Mamata Mohapatra,Balamati Choudhury,Suddhasatwa Basu,2022-01-06 This book provides a comprehensive overview of recent novel coronavirus SARS CoV 2 infection and discusses developments in the field of nanoparticle inorganic organic materials development for antiviral application therapeutic applications PPE kit formulations and inclusion of simulated data The contents focus on measures to keep the infections in check materials aspects for detection and monitoring AI modeling for prediction of spread of the virus among others This book will be a useful reference for researchers scientists and policy makers alike

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