Artificial Intelligence in Behavioral and Mental Health Care

Edited by David D. Luxton

Artificial Intelligence In Behavioral And Mental Health Care

Gourav Bathla,Sanoj Kumar,Harish Garg,Deepika Saini

Artificial Intelligence In Behavioral And Mental Health Care:

Artificial Intelligence in Behavioral and Mental Health Care David D. Luxton,2015-09-10 Artificial Intelligence in Behavioral and Mental Health Care summarizes recent advances in artificial intelligence as it applies to mental health clinical practice Each chapter provides a technical description of the advance review of application in clinical practice and empirical data on clinical efficacy In addition each chapter includes a discussion of practical issues in clinical settings ethical considerations and limitations of use The book encompasses AI based advances in decision making in assessment and treatment in providing education to clients robot assisted task completion and the use of AI for research and data gathering This book will be of use to mental health practitioners interested in learning about or incorporating AI advances into their practice and for researchers interested in a comprehensive review of these advances in one source Summarizes AI advances for use in mental health practice Includes advances in AI based decision making and consultation Describes AI applications for assessment and treatment Details AI advances in robots for clinical settings Provides empirical data on clinical efficacy Explores practical issues of use in clinical settings **Artificial intelligence in behavioral and mental health care** David Luxton,2020 Artificial Intelligence in Brain and Mental Health: Philosophical, Ethical & Policy Issues Fabrice Jotterand,Marcello Ienca,2022-02-11 This volume provides an interdisciplinary collection of essays from leaders in various fields addressing the current and future challenges arising from the implementation of AI in brain and mental health Artificial Intelligence AI has the potential to transform health care and improve biomedical research While the potential of AI in brain and mental health is tremendous its ethical regulatory and social impacts have not been assessed in a comprehensive and systemic way The volume is structured according to three main sections each of them focusing on different types of AI technologies Part 1 Big Data and Automated Learning Scientific and Ethical Considerations specifically addresses issues arising from the use of AI software especially machine learning in the clinical context or for therapeutic applications Part 2 AI for Digital Mental Health and Assistive Robotics Philosophical and Regulatory Challenges examines philosophical ethical and regulatory issues arising from the use of an array of technologies beyond the clinical context In the final section of the volume Part 3 entitled AI in Neuroscience and Neurotechnology Ethical Social and Policy Issues contributions examine some of the implications of AI in neuroscience and neurotechnology and the regulatory gaps or ambiguities that could potentially hamper the responsible development and implementation of AI solutions in brain and mental health In light of its comprehensiveness and multi disciplinary character this book marks an important milestone in the public understanding of the ethics of AI in brain and mental health and provides a useful resource for any future investigation in this crucial and rapidly evolving area of AI application The book is of interest to a wide audience in neuroethics robotics computer science neuroscience psychiatry and mental health AI Technologies and Advancements for Psychological Well-Being and Healthcare Wongmahesak, Kittisak,Marzo, Roy Rillera,2024-09-18 In mental health care artificial intelligence AI tools can

enhance diagnostic accuracy personalize treatment plans and provide support through virtual therapy and chatbots that offer real time assistance These technologies can help identify early signs of mental health issues by analyzing patterns in speech behavior and physiological data However the integration of AI also raises concerns about privacy data security and the potential for algorithmic bias which could impact quality of care As AI continues to evolve its role in psychological well being and healthcare will depend on addressing these ethical and practical considerations while harnessing its potential to improve mental health outcomes and streamline healthcare delivery AI Technologies and Advancements for Psychological Well Being and Healthcare discusses the latest innovations in AI that are transforming the landscape of mental health and healthcare services This book explores how AI applications such as machine learning algorithms and natural language processing are enhancing diagnostic accuracy personalizing treatment options and improving patient outcomes Covering topics such as behavioral artificial intelligence medical diagnosis and precision medicine this book is an excellent resource for mental health professionals healthcare providers and administrators AI and data scientists academicians researchers healthcare policymakers and more   *Artificial Intelligence for Medicine* Shai Ben- David,Giuseppe Curigliano,David Koff,Barbara Alicja Jereczek-Fossa,Davide La Torre,Gabriella Pravettoni,2024-03-14 Artificial Intelligence for Medicine An Applied Reference for Methods and Applications introduces readers to the methodology and AI ML algorithms as well as cutting edge applications to medicine such as cancer precision medicine critical care personalized medicine telemedicine drug discovery molecular characterization and patient mental health Research in medicine and tailored clinical treatment are being quickly transformed by artificial intelligence AI and machine learning ML The content in this book is tailored to the reader s needs in terms of both type and fundamentals It covers the current ethical issues and potential developments in this field Artificial Intelligence for Medicine is beneficial for academics professionals in the IT industry educators students and anyone else involved in the use and development of AI in the medical field Covers the basic concepts of Artificial Intelligence and Machine Learning methods and practices and advanced topics and applications to clinical and precision medicine Presents readers with an understanding of how AI is revolutionizing medicine by demonstrating the applications of computational intelligence to the field along with an awareness of how AI can improve upon traditional medical structures Provides researchers practitioners and project stakeholders with a complete guide for applying AI techniques in their projects and solutions   **Intersection of Human Rights and AI in Healthcare** Qidwai, Minhaj A.,2024-12-16 The intersection of human rights and artificial intelligence AI in healthcare represents a critical area of discussion as technological advancements reshape the medical field AI offers the potential to revolutionize healthcare delivery by improving diagnostic accuracy personalizing treatment plans and streamlining administrative tasks However its integration into healthcare systems raises ethical and human rights concerns Issues like data privacy algorithmic bias informed consent and equitable access to AI driven care must be carefully considered to ensure that AI technologies uphold the rights of patients Striking a

balance between innovation and human rights is essential for ensuring AI contributes to more inclusive and accountable healthcare systems where dignity and autonomy are respected and health outcomes are improved without discrimination As AI becomes embedded in healthcare establishing frameworks for ethical governance and human rights protections will be critical Intersection of Human Rights and AI in Healthcare explores the intersection between AI and healthcare with a focus on the human element and ethical considerations It delves into the implications of AI on human skills the future workforce and the role of ethical development in healthcare applications This book covers topics such as ethics and law patient safety and policymaking and is a useful resource for government officials policymakers healthcare professionals academicians scientists and researchers   *Artificial Intelligence in Healthcare and COVID-19* Parag Chatterjee,Massimo Esposito,2023-05-21 Artificial Intelligence in Healthcare and COVID 19 showcases theoretical concepts and implementational and research perspectives surrounding AI The book addresses both medical and technological visions making it even more applied With the advent of COVID 19 it is obvious that leading universities and medical schools must include these topics and case studies in their usual courses of health informatics to keep up with the pace of technological and medical advancements This book will also serve professors teaching courses and industry practitioners and professionals working in the R D team of leading medical and informatics companies who want to embrace AI and eHealth to fight COVID 19 Since AI in healthcare is a comparatively new field there exists a vacuum of literature in this field especially when applied to COVID 19 With the area of AI in COVID 19 being quite young students and researchers usually face a struggle to rely on the few published papers which are obviously too specific or whitepapers by tech giants which are too wide Discusses the fundamentals and theoretical concepts of applying AI in healthcare pertaining to COVID 19 Provides a landscape view to the applied aspect of AI in healthcare related COVID 19 through case studies and innovative applications Discusses key concerns and challenges in the field of AI in eHealth during the pandemic along with other allied fields like IoT creating a broad platform of transdisciplinary discussion   *Multiple Perspectives on Artificial Intelligence in Healthcare* Mowafa Househ,Elizabeth Borycki,Andre Kushniruk,2021-08-05 This book offers a comprehensive yet concise overview of the challenges and opportunities presented by the use of artificial intelligence in healthcare It does so by approaching the topic from multiple perspectives e g the nursing consumer medical practitioner healthcare manager and data analyst perspective It covers human factors research discusses patient safety issues and addresses ethical challenges as well as important policy issues By reporting on cutting edge research and hands on experience the book offers an insightful reference guide for health information technology professionals healthcare managers healthcare practitioners and patients alike aiding them in their decision making processes It will also benefit students and researchers whose work involves artificial intelligence related research issues in healthcare   *Smart Computational Intelligence in Biomedical and Health Informatics* Amit Kumar Manocha,Mandeep Singh,Shruti Jain,Vishal Jain,2021-09-27 Smart Computational Intelligence in Biomedical and Health Informatics presents state of the art

innovations research design and implementation of methodological and algorithmic solutions to data processing problems including analysis of evolving trends in health informatics and computer aided diagnosis This book describes practical applications led research regarding the use of methods and devices in clinical diagnosis disease prevention and patient monitoring and management It also covers simulation and modeling measurement and control analysis information extraction and monitoring of physiological data in clinical medicine and the biological sciences FEATURES Covers evolutionary approaches to solve optimization problems in biomedical engineering Discusses IoT Cloud computing and data analytics in healthcare informatics Provides computational intelligence based solution for diagnosis of diseases Reviews modelling and simulations in designing of biomedical equipment Promotes machine learning based approaches to improvements in biomedical engineering problems This book is for researchers graduate students in healthcare biomedical engineers and those interested in health informatics computational intelligence and machine learning **Explainable Artificial Intelligence in the Healthcare Industry** Abhishek Kumar,T. Ananth Kumar,Prasenjit Das,Chetan Sharma,Ashutosh Kumar Dubey,2025-04-08 Discover the essential insights and practical applications of explainable AI in healthcare that will empower professionals and enhance patient trust with Explainable AI in the Healthcare Industry a must have resource Explainable AI XAI has significant implications for the healthcare industry where trust accountability and interpretability are crucial factors for the adoption of artificial intelligence XAI techniques in healthcare aim to provide clear and understandable explanations for AI driven decisions helping healthcare professionals patients and regulatory bodies to better comprehend and trust the AI models outputs Explainable AI in the Healthcare Industry presents a comprehensive exploration of the critical role of explainable AI in revolutionizing the healthcare industry With the rapid integration of AI driven solutions in medical practice understanding how these models arrive at their decisions is of paramount importance The book delves into the principles methodologies and practical applications of XAI techniques specifically tailored for healthcare settings **Predictive Analytics of Psychological Disorders in Healthcare** Mamta Mittal,Lalit Mohan Goyal,2022-05-20 This book discusses an interdisciplinary field which combines two major domains healthcare and data analytics It presents research studies by experts helping to fight discontent distress anxiety and unrealized potential by using mathematical models machine learning artificial intelligence etc and take preventive measures beforehand Psychological disorders and biological abnormalities are significantly related with the applications of cognitive illnesses which has increased significantly in contemporary years and needs rapid investigation The research content of this book is helpful for psychological undergraduates health workers and their trainees therapists medical psychologists and nurses **Artificial Intelligence in Healthcare** Gourav Bathla,Sanoj Kumar,Harish Garg,Deepika Saini,2024-10-23 This book presents state of the art research works for a better understanding of the advantages and limitations of AI techniques in the field of healthcare It will further discuss artificial intelligence applications in depression hypertension and diabetes management The text also presents an artificial intelligence chatbot for

depression diabetes and hypertension self help This book Provides a structured overview of recent developments of artificial intelligence applications in the healthcare sector Presents an in depth understanding of how artificial intelligence techniques can be applied to diabetes management Showcases supervised learning techniques based on datasets for depression management Discusses artificial intelligence chatbot for diabetes depression and hypertension self care Highlights the importance of artificial intelligence in managing and predicting diabetes hypertension and depression The text is primarily written for senior undergraduate graduate students and academic researchers in diverse fields including electrical engineering electronics and communications engineering computer science and engineering and biomedical engineering

Human-Centered AI Applications for Medical Informatics Coskun, Hüseyin,2025-10-03 Artificial intelligence AI is reshaping healthcare by enhancing diagnostic accuracy treatment efficiency and patient monitoring yet its true potential lies in systems that center human values Human Centered AI HCAI ensures that these technologies are transparent fair privacy conscious and responsive to both clinicians and patients As healthcare increasingly relies on complex AI tools maintaining human oversight is essential to foster trust ethical integrity and meaningful patient engagement HCAI transforms not only the technical side of care but also reinforces compassion dignity and equity in health systems Human Centered AI Applications for Medical Informatics addresses the current and future applications of AI in health and medical informatics from a human centered perspective It illuminates not only the opportunities offered by technology but also the ethical social and practical aspects of these opportunities Covering topics such as blockchain human psychology and public perception this book is an excellent resource for academicians researchers healthcare professionals software developers data scientists industry professionals and more   Artificial intelligence in Pharmaceutical Sciences Mullaicharam Bhupathyraaj,K. Reeta Vijaya Rani,Musthafa Mohamed Essa,2023-11-23 This cutting edge reference book discusses the intervention of artificial intelligence in the fields of drug development modified drug delivery systems pharmaceutical technology and medical devices development This comprehensive book includes an overview of artificial intelligence in pharmaceutical sciences and applications in the drug discovery and development process It discusses the role of machine learning in the automated detection and sorting of pharmaceutical formulations It covers nanosafety and the role of artificial intelligence in predicting potential adverse biological effects FEATURES Includes lucid step by step instructions to apply artificial intelligence and machine learning in pharmaceutical sciences Explores the application of artificial intelligence in nanosafety and prediction of potential hazards Covers application of artificial intelligence in drug discovery and drug development Reviews the role of artificial intelligence in assessment of pharmaceutical formulations Provides artificial intelligence solutions for experts in the pharmaceutical and medical devices industries This book is meant for academicians students and industry experts in pharmaceutical sciences medicine and pharmacology   Communication and Applied Technologies Daniel Barredo Ibáñez,Eliana Gallardo-Echenique,Hotniar Siringoringo,Nieves Lagares Diez,2025-04-09 This book features selected papers

from the International Conference on Communication and Applied Technologies ICOMTA 2024 Universidad Peruana de Ciencias Aplicadas Lima Peru during 4 6 September 2024 It covers recent advances in the field of digital communication and processes digital social media software big data data mining and intelligent systems Artificial Intelligence in Geriatric Mental Health Research and Clinical Care Ellen E. Lee,Andrea Iaboni,Helmet Karim,Ipsit Vahia,2022-03-18 Ethics of Medical AI Giovanni Rubeis,2024-03-20 This is the first book to provide a coherent overview over the ethical implications of AI related technologies in medicine It explores how these technologies transform practices relationships and environments in the clinical field It provides an introduction into ethical issues such as data security and privacy protection bias and algorithmic fairness trust and transparency challenges to the doctor patient relationship and new perspectives for informed consent The book focuses on the transformative impact that technology is having on medicine and discusses several strategies for dealing with the resulting challenges It also introduces innovative methods of ethics research for addressing existing desiderata and future challenges This book is written to inform health care professionals policy makers and researchers in medicine health sciences nursing science social sciences and ethics but may also function as a primary textbook for graduate as wellas undergraduate university courses *Digital Interventions in Mental Health: Current Status and Future Directions* Elias Aboujaoude,Lina Gega,Michelle Burke Parish,Donald M. Hilty,2020-04-01 **Resilient Health** Judy Kuriansky,Pradeep Kakkattil,2024-06-24 Resilient Health Leveraging Technology and Social Innovations to Transform Healthcare for COVID 19 Recovery and Beyond presents game changing and disruptive technological innovations and social applications in health and mental health care around the world for the post COVID age and beyond addressing the urgent need for care In this first of its kind comprehensive volume experts and stakeholders from all sectors government and the public and private sectors offer models and frameworks for policy programming and financing to transform healthcare address inequities close the treatment gap and build back better especially for under resourced vulnerable communities globally to leave no one behind and advance development globally Contributions from world experts cover 8 essential parts The context and challenges for resilient health systems to shape the future developments and directions AI VR MR IVAs and more an innovations toolbox also targeted for special populations and settings women youth ageing migrants disabled persons indigenous peoples in the workplace the role of stakeholders governments the public and private sector forums and networks innovative financing resources lessons learned and the way forward Addresses the hot topic today in the ever emerging landscape of disruptive digital healthcare delivery covering critical issues and solutions in digital health big data and artificial intelligence as well as benefits and challenges and ethical concerns Provides case examples of transformative and radical solutions to urgent health needs especially in remote low resource settings as well as in less well covered regions of Central and South America and MENA Middle East and North Africa Positions health innovations at the nexus of the global framework of Universal Health Coverage and of the United Nations Sustainable Developing Goals to achieve SDG3 good

health and well being at the intersection with climate action gender equality quality education eradication of poverty and hunger sustainable cities environmental protection and others Serves as an exceptional resource reference teaching tool and guide for all stakeholders including civil society and NGOs government think tanks investors academia researchers and practitioners product developers and all policymakers and programmers involved in planning and delivering healthcare including an extensive section of resources in the digital health space in various categories like publications conferences and collaboratives Provides examples of and encourages multi stakeholder partnerships essential to re imagine health systems delivery and access and to achieve intended healthcare objectives **The Oxford Handbook of Psychotherapy Ethics** Manuel Trachsel,Nikola Biller-Andorno,Jens Gaab,Şerife Tekin,John Z. Sadler,2021 The Oxford Handbook of Psychotherapy Ethics explores a whole range of ethical issues in the heterogenous field of psychotherapy It will be an essential book for psychotherapists in clinical practice and valuable for those professionals providing mental health services beyond psychology and medicine including counsellors and social workers

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