



# **“Artificial intelligence (AI) will replace pathologists”**

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Academic Histopathology Trainee

# Artificial Intelligence For Pathologists Is Not Near It

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## **Artificial Intelligence For Pathologists Is Not Near It:**

*Artificial Intelligence in Pathology* Chhavi Chauhan, Stanley Cohen, 2024-11-26 *Artificial Intelligence in Pathology Principles and Applications* provides a strong foundation of core artificial intelligence principles and their applications in the field of digital pathology. This is a reference of current and emerging use of AI in digital pathology as well as the emerging utility of quantum artificial intelligence and neuromorphic computing in digital pathology. It is a must-have educational resource for lay public researchers, academicians, practitioners, policymakers, key administrators, and vendors to stay current with the shifting landscapes within the emerging field of digital pathology. It is also of use to workers in other diagnostic imaging areas such as radiology. This resource covers various aspects of the use of AI in pathology, including but not limited to the basic principles, advanced applications, challenges in the development, deployment, adoption, and scalability of AI-based models in pathology, the innumerable benefits of applying and integrating AI in the practice of pathology, ethical considerations for the safe adoption and deployment of AI in pathology. Discusses the evolution of machine learning in the field to provide a foundational background. Addresses challenges in the development, deployment, and regulation of AI in anatomic pathology. Includes information on generative deep learning in digital pathology workflows. Provides current tools and future perspectives.

*Artificial Intelligence and Machine Learning for Digital Pathology* Andreas Holzinger, Randy Goebel, Michael Mengel, Heimo Müller, 2020-06-24 Data-driven Artificial Intelligence (AI) and Machine Learning (ML) in digital pathology, radiology, and dermatology is very promising. In specific cases, for example, Deep Learning (DL) even exceeding human performance. However, in the context of medicine, it is important for a human expert to verify the outcome. Consequently, there is a need for transparency and retraceability of state-of-the-art solutions to make them usable for ethical, responsible medical decision support. Moreover, big data is required for training, covering a wide spectrum of a variety of human diseases in different organ systems. These data sets must meet top quality and regulatory criteria and must be well annotated for ML at patient, sample, and image level. Here, biobanks play a central and future role in providing large collections of high quality, well-annotated samples and data. The main challenges are finding biobanks containing fit-for-purpose samples, providing quality-related meta-data, gaining access to standardized medical data and annotations, and mass scanning of whole slides, including efficient data management solutions.

*Artificial Intelligence Applications In Human Pathology* Ralf Huss, Michael Grunkin, 2022-03-04 *Artificial Intelligence Applications in Human Pathology* deals with the latest topics in biomedical research and clinical cancer diagnostics. With chapters provided by true international experts in the field, this book gives real examples of the implementation of AI and machine learning in human pathology. Advances in machine learning and AI in general have propelled computational and general pathology research. Today, computer systems approach the diagnostic levels achieved by humans for certain well-defined tasks in pathology. At the same time, pathologists are faced with an increased workload, both quantitatively (numbers of cases) and qualitatively (the amount of work per case) with

increasing treatment options and the type of data delivered by pathologists also expected to become more fine grained AI will support and leverage mathematical tools and implement data driven methods as a center for data interpretation in modern tissue diagnosis and pathology Digital or computational pathology will also foster the training of future computational pathologists those with both pathology and non pathology backgrounds who will eventually decide that AI based pathology will serve as an indispensable hub for data related research in a global health care system Some of the specific topics explored within include an introduction to DL as applied to Pathology Standardized Tissue Sampling for Automated Analysis integrating Computational Pathology into Histopathology workflows Readers will also find examples of specific techniques applied to specific diseases that will aid their research and treatments including but not limited to Tissue Cartography for Colorectal Cancer Ki 67 Measurements in Breast Cancer and Light Sheet Microscopy as applied to Virtual Histology The key role for pathologists in tissue diagnostics will prevail and even expand through interdisciplinary work and the intuitive use of an advanced and interoperating AI supported pathology workflow delivering novel and complex features that will serve the understanding of individual diseases and of course the patient

### **Artificial Intelligence in Urologic Malignancies**

Himanshu Arora,2024-11-25 Artificial Intelligence in Urologic Malignancies describes current artificial intelligence technology with an emphasis on prostate cancer applications The book provides guidance on how artificial intelligence can improve therapeutics how the power of artificial intelligence integrated with current standard therapy and research can enhance decision making and proposes future directions on how to integrate artificial intelligence within clinical applications This is the perfect reference for scientists and researchers interested in the basic translational research opportunities such as drug discovery pharmacogenetics and experimental therapeutics as well as clinicians interested in how AI applications are integrated with applications Provides guidance on AI integration that is expected to become standard in the future Places a special emphasis on prostate cancer and the integration of AI to show how to enhance personalized medicine Surveys current techniques and standards that can be shared and applied to fields outside cancer

Artificial Intelligence in Urology, An Issue of Urologic Clinics, E-Book Andrew J Hung,2023-11-09 In this issue of Urologic Clinics of North America guest editor Dr Andrew J Hung brings his considerable expertise to the topic of Artificial Intelligence in Urology Alongside technological advancements in artificial intelligence AI applications of AI in urology have grown tremendously over the last few years This special issue highlights areas of particular interest such as radiomics pathomics genomics and surgery Top experts in the field cover the current status and also preview future applications aimed at improved patient outcomes Contains 13 relevant practice oriented topics including radiomics pathomics and surgical AI genomics and AI prostate cancer and renal cell carcinoma pediatric urology and AI bladder cancer and AI AI in urology big data sets and more Provides in depth clinical reviews on artificial intelligence in urology offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest

research and practice guidelines to create clinically significant topic based reviews      Artificial Intelligence in Digital Pathology Image Analysis Min Tang,Jialiang Yang,Li Xiao,2024-09-25 Thanks to the development and deployment of whole slide imaging technology in pathology glass slides previously observed under a traditional microscope are now scanned and converted to digital images which are more beneficial for remote access portability and ease of sharing to facilitate telepathology More importantly digitization of glass slides paves the way towards the wide use of artificial intelligence AI tools including machine deep learning algorithms resulting in improved diagnostic accuracy In the past decade a large number of studies have demonstrated the remarkable success of AI particularly deep learning in digital pathology such as tumor region identification metastasis detection and patient prognosis Differing from handcrafted feature based approaches that take advantage of domain knowledge to delineate specific morphological measurements e g nuclei shape and size and tissue texture in the images as features for training deep learning is a paradigm of feature learning entirely driven by the image data and or labels Herein the use of deep learning in pathological diagnosis can not only handle increased workloads and expertise shortages but also obviate subjective diagnosis from pathologists Yet there remain many scientific and technological challenges associated with the efficiency of deep learning algorithms for use in clinical practice For example deep learning requires a sufficient amount of training data for generalization and suffers from a lack of feature interpretability The overarching goal of this special issue is to highlight novel research accomplishments and directions related to advanced AI methodology development and applications in digital pathology      *Artificial Intelligence and Biological Sciences* P.V. Mohanan,2025-06-17 Advancements of AI in medical and biological sciences have opened new ways for drug development Novel therapeutic molecules and their target action can be easily predicted and can be modified AI helps in disease detection and diagnosis faster The breakthrough of AI is made especially in the area of personalized precision medicine host pathogen interaction and predictive epidemiology These approaches could help in faster decision making with minimal errors that can improve risk analysis especially disease diagnosis and selecting treatment strategy In agricultural practices an exact combination of fertilizers pesticides herbicides soil management water requirement analysis yield prediction and overall crop management can be modified by implementing AI interventions AI could provide a better improvement in agriculture medical research pharmaceuticals and bio based industries for a sustainable life The key features of this book are AI in medical Sciences biotechnology and drug discovery Application of AI in Digital Pathology cytology and bioinformatics Overview of AI Machine Learning and Deep Learning Impact of Artificial Intelligence in Society Artificial Intelligence in Pharmacovigilance and Ethics in Artificial Intelligence The volume aims to comprehensively cover the application of AI in biological sciences It is a collection of contributions from different authors who have several years of experience in their specific areas The book will be useful for pharma companies CROs product developers students researchers academicians policymakers and practitioners      **Artificial Intelligence and Deep Learning in Pathology**

Stanley Cohen,2020-06-02 Recent advances in computational algorithms along with the advent of whole slide imaging as a platform for embedding artificial intelligence AI are transforming pattern recognition and image interpretation for diagnosis and prognosis Yet most pathologists have just a passing knowledge of data mining machine learning and AI and little exposure to the vast potential of these powerful new tools for medicine in general and pathology in particular In Artificial Intelligence and Deep Learning in Pathology Dr Stanley Cohen covers the nuts and bolts of all aspects of machine learning up to and including AI bringing familiarity and understanding to pathologists at all levels of experience Focuses heavily on applications in medicine especially pathology making unfamiliar material accessible and avoiding complex mathematics whenever possible Covers digital pathology as a platform for primary diagnosis and augmentation via deep learning whole slide imaging for 2D and 3D analysis and general principles of image analysis and deep learning Discusses and explains recent accomplishments such as algorithms used to diagnose skin cancer from photographs AI based platforms developed to identify lesions of the retina using computer vision to interpret electrocardiograms identifying mitoses in cancer using learning algorithms vs signal processing algorithms and many more

### **Artificial Intelligence in Clinical Practice**

Chayakrit Krittanawong,2023-09-13 Artificial Intelligence in Clinical Practice How AI Technologies Impact Medical Research and Clinics compiles current research on Artificial Intelligence within medical subspecialties helping practitioners with diagnosis clinical decision making disease prediction prevention and the facilitation of precision medicine The book defines the basic concepts of big data and AI in medicine and highlights current applications challenges ethical issues and biases Each chapter discusses AI applied to a specific medical subspecialty including primary care preventive medicine general internal medicine radiology pathology infectious disease gastroenterology cardiology hematology oncology dermatology ophthalmology mental health neurology pulmonary critical care rheumatology surgery and OB GYN This is a valuable resource for clinicians students researchers and members of medical and biomedical fields who are interested in learning more about artificial intelligence technologies and their applications in medicine Provides the history and overview of the various modalities of AI and their applications within each field of medicine Discusses current AI based medical research including landmark trials within each field of medicine Addresses the current knowledge gaps that clinicians commonly face that prevent the application of AI based research to clinical practice Encompasses examples of specific cases and discusses challenges and biases associated with AI

### **Artificial Intelligence in Cancer**

Smaranda Belciug,2020-06-18 Artificial Intelligence in Cancer Diagnostic to Tailored Treatment provides theoretical concepts and practical techniques of AI and its applications in cancer management building a roadmap on how to use AI in cancer at different stages of healthcare It discusses topics such as the impactful role of AI during diagnosis and how it can support clinicians to make better decisions AI tools to help pathologists identify exact types of cancer how AI supports tumor profiling and can assist surgeons and the gains in precision for oncologists using AI tools Additionally it provides information on AI used for survival and remission

recurrence analysis The book is a valuable source for bioinformaticians cancer researchers oncologists clinicians and members of the biomedical field who want to understand the promising field of AI applications in cancer management Discusses over 20 real cancer examples bringing state of the art cancer cases in which AI was used to help the medical personnel Presents over 100 diagrams making it easier to comprehend AI s results on a specific problem through visual resources Explains AI algorithms in a friendly manner thus helping the reader implement or use them in a specific cancer case

Multidisciplinary Perspectives on Artificial Intelligence and the Law Henrique Sousa Antunes, Pedro Miguel Freitas, Arlindo L. Oliveira, Clara Martins Pereira, Elsa Vaz de Sequeira, Luís Barreto Xavier, 2023-12-26 This open access book presents an interdisciplinary multi authored edited collection of chapters on Artificial Intelligence AI and the Law AI technology has come to play a central role in the modern data economy Through a combination of increased computing power the growing availability of data and the advancement of algorithms AI has now become an umbrella term for some of the most transformational technological breakthroughs of this age The importance of AI stems from both the opportunities that it offers and the challenges that it entails While AI applications hold the promise of economic growth and efficiency gains they also create significant risks and uncertainty The potential and perils of AI have thus come to dominate modern discussions of technology and ethics and although AI was initially allowed to largely develop without guidelines or rules few would deny that the law is set to play a fundamental role in shaping the future of AI As the debate over AI is far from over the need for rigorous analysis has never been greater This book thus brings together contributors from different fields and backgrounds to explore how the law might provide answers to some of the most pressing questions raised by AI An outcome of the Catalica Research Centre for the Future of Law and its interdisciplinary working group on Law and Artificial Intelligence it includes contributions by leading scholars in the fields of technology ethics and the law

Artificial Intelligence and Bioethics Perihan Elif Ekmekci, Berna Arda, 2020-07-30 This book explores major bioethical issues emerging from the development and use of artificial intelligence in medical settings The authors start by defining the past present and future of artificial intelligence in medical settings and then proceed to address the resulting common and specific bioethical inquiries The book discusses bioethical inquiries in two separate sets The first set is comprised of ontological discussions mainly focusing on personhood and being an ethical agent of an artefact The second set discusses bioethical issues resulting from the use of artificial intelligence It focuses particularly on the area of artificial intelligence use in medicine and health services It addresses the main challenges by considering fundamental principles of medical ethics including confidentiality privacy compassion veracity and fidelity Finally the authors discuss the ethical implications of involvement of artificial intelligence agents in patient care by expanding on communication skills in a case based approach The book is of great interest to ethicists medical professionals academicians engineers and scientists working with artificial intelligence

**Artificial Intelligence for Human Computer Interaction: A Modern Approach** Yang Li, Otmar Hilliges, 2021-11-04

This edited book explores the many interesting questions that lie at the intersection between AI and HCI. It covers a comprehensive set of perspectives, methods, and projects that present the challenges and opportunities that modern AI methods bring to HCI researchers and practitioners. The chapters take a clear departure from traditional HCI methods and leverage data-driven and deep learning methods to tackle HCI problems that were previously challenging or impossible to address. It starts with addressing classic HCI topics including human behaviour modeling and input and then dedicates a section to data and tools, two technical pillars of modern AI methods. These chapters exemplify how state-of-the-art deep learning methods infuse new directions and allow researchers to tackle long-standing and newly emerging HCI problems alike. *Artificial Intelligence for Human Computer Interaction: A Modern Approach* concludes with a section on Specific Domains which covers a set of emerging HCI areas where modern AI methods start to show real impact such as personalized medical design and UI automation. *Artificial intelligence in forensic microbiology* Chen Li, Yu-Dong Yao, Jiangwei Yan, Marcin Grzegorzec, 2023-05-02. *Transpathology* Mei Tian, 2024-06-25. *Transpathology: Molecular Imaging Based Pathology* is a multidisciplinary reference on molecular imaging and pathology. The book is intended for professionals in the fields of molecular imaging, nuclear medicine, radiology, and pathology, as well as students and clinical residents. The book describes the importance of non-invasive diagnosis-based precision medicine and presents a detailed description of current transpathological approaches in different aspects essential for the future development of precision medicine. Its molecular imaging approach to experimental research and clinical practice will drive the field forward and improve research outcomes. Introduces a new concept of molecular imaging-guided precise biopsy. Links in vivo and ex vivo information at various scales by using multi-modality imaging technologies. Integrates future technologies for the non-invasive cross-validation of underlying mechanisms. **Artificial Intelligence for Medicine** Yoshiki Oshida, 2021-10-11. The use of artificial intelligence (AI) in various fields is of major importance to improve the use of resources and time. This book provides an analysis of how AI is used in both the medical field and beyond. Topics that will be covered are bioinformatics, biostatistics, dentistry, diagnosis and prognosis, smart materials, and drug discovery as they intersect with AI. Also, an outlook of the future of an AI-assisted society will be explored. *Genitourinary Pathology, An Issue of Surgical Pathology Clinics, E-Book* Ming Zhou, 2022-11-09. In this issue of *Surgical Pathology Clinics*, guest editor Dr. Ming Zhou brings his considerable expertise to the topic of Genitourinary Pathology. Top experts in the field cover key topics such as prostate cancer: update on grading and reporting, cribriform lesions of the prostate, urothelial carcinoma, divergent differentiation, and variants; kidney tumors: new developments in existing WHO kidney tumor entities and more; Contains 13 relevant practice-oriented topics including testicular tumors, new developments in germ cell tumors, and sex cord stromal tumors; computational pathology in genitourinary pathology; molecular genetics of prostate cancer and role of genomic testing; evolving role of multiparametric MRI in prostate cancer diagnosis and reporting; and more. Provides in-depth clinical reviews on current topics in



genitourinary pathology offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews     *Artificial Intelligence over Infrared Images for Medical Applications and Medical Image Assisted Biomarker Discovery* Siva Teja Kakileti, Maria Gabrani, Geetha Manjunath, Michal Rosen-Zvi, Nathaniel Braman, Robert G. Schwartz, Alejandro F. Frangi, Pau-Choo Chung, Christopher Weight, Vekataraman Jagadish, 2022-11-19 This book constitutes the refereed proceedings of the First Workshop on Artificial Intelligence over Infrared Images for Medical Applications AIIIMA 2022 and the First Workshop on Medical Image Assisted Biomarker Discovery MIABID 2022 both held in conjunction with MICCAI 2022 Singapore during September 18 and 22 2022 For MIABID 2022 7 papers from 10 submissions were accepted for publication This workshop created a forum to discuss this specific sub topic at MICCAI and promote this novel area of research among the research community that has the potential to hugely impact our society For AIIIMA 2022 10 papers from 15 submissions were accepted for publication The first workshop on AIIIMA aimed to create a forum to discuss this specific sub topic of AI over Infrared Images for Medical Applications at MICCAI and promote this novel area of research that has the potential to hugely impact our society among the research community     *Diagnostic Pathology: Intraoperative Consultation E-Book* Susan C. Lester, Beth T. Harrison, 2022-11-22 This expert volume in the Diagnostic Pathology series is an excellent point of care resource for practitioners at all levels of experience and training Edited by Drs Susan C Lester and Beth T Harrison it is uniquely organized by the questions surgeons pose during intraoperative consultations such as Is the bronchial margin positive or negative or Can this liver be used for transplantation among many others This fully updated volume is the most comprehensive and targeted resource available in this time sensitive area covering more than 70 questions supported by tables diagrams radiographs and photographs Concisely written and easy to use the third edition of Diagnostic Pathology Intraoperative Consultation is a visually stunning one stop resource for every practicing pathologist resident student or fellow as an ideal day to day reference or as a reliable training resource Contains new chapters on the evaluation of margins from cervical resections the use of ex vivo microscopy to image fresh tissue for the rapid creation of digital microscopic images for intraoperative diagnosis and on other emerging techniques that may replace frozen section Includes a revised Safety Precautions chapter with details on evaluating specimens from patients with COVID 19 Features updated images and text throughout to align with updated terminology and methods Includes videos showing special techniques such as identifying radioactive seeds in breast biopsies and evaluating lung margins containing staples by frozen section Provides updated and expanded introductory and methods chapters in addition to more than 70 chapters based on questions posed by surgeons during intraoperative consultations Features more than 2 500 print and online images including carefully annotated histology and gross pathology photos full color illustrations clinical photographs and radiologic images to help practicing and in training pathologists reach a confident diagnosis

Employs consistently templated chapters bulleted content key facts a variety of tables annotated images pertinent references and an extensive index for quick expert reference at the point of care Includes an eBook version that enables you to access all text figures and references with the ability to search customize your content make notes and highlights and have content read aloud     Artificial Intelligence in Urology Andrew J Hung, 2024-10-19 Artificial Intelligence in Urology Present and Future summarizes the cutting edge development and adoption of Artificial Intelligence AI technologies in urology The book explores barriers that prevent the further adoption of AI technologies provides ethical considerations and investigates the future role AI is expected to play In addition it includes applications of AI technology in the diagnosis and treatment of cancers prostate bladder and more and kidney stones and in both adult and pediatric care This is the perfect reference for researchers developing AI technologies for clinical applications and for clinicians who aim to effectively adopt AI technologies to solve clinical questions Describes the state of the art of AI applications in urology by leading experts in the field Provides a comprehensive review of how different strategies in AI are utilized to solve a wide range of clinical problems from diagnosis treatment and prognostication of urologic diseases Comprises contents that can be used as a springboard to allow readers to adopt AI technologies in their field of study practice

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## Artificial Intelligence For Pathologists Is Not Near It Introduction

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