

- Includes 8 technological and non-technological dimensions
- † Includes external factors affecting diagnostic performance and measurement such as payment systems, legal factors, national quality measurement initiatives, accreditation, and other policy and regulatory requirements.

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Ultrasound for Precision Medicine: Diagnosis, Drug Delivery and Image-Guided Therapy Fei Yan, Jean Jose, Xiaobing Wang, 2020-08-07 Precision medicine is an approach that proposes customized medical care based on the individual characteristics of each patient The rapidly emerging field not only holds great promise for diagnosis of disease and prediction of risk of developing diseases but also offers the possibility of remarkably fine tuned remedies to improve patient health while minimizing the risk of harmful side effects Many technologies including genetics informatics and medical imaging are rapidly expanding the scope of precision medicine Among these technologies imaging is poised to play a major role in the age of precision medicine By characterizing anatomy physiology and metabolism of the patient medical imaging enables precise personalized procedures and predictive patient specific therapy selection In recent years image guided treatment procedures are becoming more and more common in hospitals replacing conventional surgery or allowing faster recoveries with fewer post procedure complications As the most widely used modality ultrasound is playing an increasingly important role towards moving precision medicine into clinical practice It is a safe inexpensive diagnostic tool and capable of producing real time and non invasive images without significant biological effects To date lots of ultrasound imaging technology such as gray scale color Doppler flow imaging CDFI contrast enhanced ultrasound CEUS elastography have been developed which have greatly improved disease diagnosis treatment and prognosis Thanks to these progress ultrasound imaging has also been used in fields that were not previously involved such as the lungs and musculoskeletal tissues With the rapid development of ultrasound contrast agents ultrasound molecular imaging is moving from animal study into clinical practice First in human results of ultrasound molecular imaging with BR55 a kinase insert domain receptor KDR targeted contrast microbubble in patients with breast and ovarian lesions have been reported in 2017 Taking advantage of microbubble cavitation effect ultrasound assisted drug delivery technology also makes great progress The clinical trial of blood brain barrier disruption for chemotherapy delivery in the brain had been conducted and confirmed its safety and well toleration in patients with recurrent glioblastoma GBM Moreover ultrasound provides an advantageous tool for image guided therapy due to its capability of real time imaging for deep tissues contributing to greatly improved localization and targeting of diseased tissues More interestingly by imaging these drug loaded contrast agents ultrasound mediated drug delivery can be visualized All of the above examples help demonstrate the promising potential of ultrasound in precision medicine not only for disease diagnosis but also for treatment selection and prognosis evaluation The present Research Topic here in Frontiers in Pharmacology aims to bring a collection of research describing ultrasound used for precision medicine in diagnosis drug delivery and image guided therapy Medical Image Analysis and Informatics Paulo Mazzoncini de Azevedo-Marques, Arianna Mencattini, Marcello Salmeri, Rangaraj M. Rangayyan, 2017-11-23 With the development of rapidly

increasing medical imaging modalities and their applications the need for computers and computing in image generation processing visualization archival transmission modeling and analysis has grown substantially Computers are being integrated into almost every medical imaging system Medical Image Analysis and Informatics demonstrates how quantitative analysis becomes possible by the application of computational procedures to medical images Furthermore it shows how quantitative and objective analysis facilitated by medical image informatics CBIR and CAD could lead to improved diagnosis by physicians Whereas CAD has become a part of the clinical workflow in the detection of breast cancer with mammograms it is not yet established in other applications CBIR is an alternative and complementary approach for image retrieval based on measures derived from images which could also facilitate CAD This book shows how digital image processing techniques can assist in quantitative analysis of medical images how pattern recognition and classification techniques can facilitate CAD and how CAD systems can assist in achieving efficient diagnosis in designing optimal treatment protocols in analyzing the effects of or response to treatment and in clinical management of various conditions The book affirms that medical imaging medical image analysis medical image informatics CBIR and CAD are proven as well as essential techniques for health care

Medical and Biological Image Analysis ,2018-07-04 This book deals with medical image analysis methods In particular it contains two significant chapters on image segmentation as well as some selected examples of the application of image analysis and processing methods Despite the significant development of information technology methods used in modern image analysis and processing algorithms the segmentation process remains open This is mainly due to intra patient variability and or scene diversity Segmentation is equally difficult in the case of ultrasound imaging and depends on the location of the probe or the contact force Regardless of the imaging method segmentation must be tailored for a specific application in almost every case These types of application areas for various imaging methods are included in this book

Data Science and Analytics Brajendra Panda, Sudeep Sharma, Nihar Ranjan Roy, 2018-03-07 This book constitutes the refereed proceedings of the 4th International Conference on Recent Developments in Science Engineering and Technology REDSET 2017 held in Gurgaon India in October 2017 The 66 revised full papers presented were carefully reviewed and selected from 329 submissions The papers are organized in topical sections on big data analysis data centric programming next generation computing social and web analytics security in data science analytics
Omic Studies of Neurodegenerative Disease - Part B ,2015-11-23 Omic Studies of Neurodegenerative Disease Part B is part of a well established international series on neuroscience that examines major areas of basic and clinical research along with emerging and promising subfields The book informs the reader on the current state of the studies used to evaluate the mechanisms causes and treatment of neurodegeneration through a combination of literature reviews and examples of current research Provides the expertise of leading contributors in the field Demonstrates how findings in the fields of genomics proteomics and metabolomic studies can combined for further insights Informs the reader on the current state of the studies

used to study the mechanisms causes and treatment of neurodegeneration through a combination of literature reviews and examples of current research Emerging Infectious Diseases ,2018 Immunology of the GI Tract Luis Rodrigo, 2022-12-21 The intestine is the largest digestive organ in the human body and one of the largest organs in contact with the outside world In addition to digesting food to facilitate the absorption of nutrients it has a variety of other functions including the transmission of information and regulation of the metabolism Due to its unique structure the intestine is constantly exposed to various antigens and microbes To protect the body from pathogens while also maintaining a stable environment the human intestinal tract has evolved unique regional immune characteristics maintained by the mature intestinal mucosal immune system This intricate system involves intestinal epithelial cells and intestinal lymphoid tissue composed of Peyer's patches isolated lymphoid follicles mesenteric lymph nodes and so on The congenital and adaptive immune mechanisms created by the unique structure function and microenvironment of the intestine differ from those of the central and peripheral immune organs forming the regional immunity of the intestine Intestinal flora also plays an important role in maintaining intestinal homeostasis altering the structure and function of the immune system reshaping the immune microenvironment and promoting interference with the development of specific diseases In fact the immune function of the intestinal region directly affects the development of many intestine specific diseases However the integrity of this function depends on the expression of congenital genes and the regulation of the neuroendocrine system The microenvironment created by intestinal flora and its products also affects the immunity of the intestinal region In early life appropriate intestinal colonization by specific microflora stimulates the maturation of the intestinal mucosa associated lymphoid tissue If the appropriate intestinal flora fails to form during this life stage the function of the intestinal immune system becomes impaired leading to increased incidence and or morbidity of certain intestinal diseases including ulcerative colitis Crohn s disease and others Tumors of the Central Nervous System Lee Roy Morgan, 2014-06-11 A novel concept that is reviewed and discussed in several chapters in the book alludes to the transport of drugs bound to red blood cells into the highly vascular CNS tumors both primary and metastatic Such a transport mechanism is unique and of significant therapeutic potential It is hopeful that the novel information presented in this book will result in new approaches to the treatment CNS The Essential Physics of Medical Imaging Jerrold T. Bushberg, J. Anthony Seibert, Edwin M. Leidholdt, John M. tumors Boone, 2011-12-28 This renowned work is derived from the authors acclaimed national review course Physics of Medical Imaging at the University of California Davis for radiology residents The text is a guide to the fundamental principles of medical imaging physics radiation protection and radiation biology with complex topics presented in the clear and concise manner and style for which these authors are known Coverage includes the production characteristics and interactions of ionizing radiation used in medical imaging and the imaging modalities in which they are used including radiography mammography fluoroscopy computed tomography and nuclear medicine Special attention is paid to optimizing patient dose

in each of these modalities Sections of the book address topics common to all forms of diagnostic imaging including image quality and medical informatics as well as the non ionizing medical imaging modalities of MRI and ultrasound The basic science important to nuclear imaging including the nature and production of radioactivity internal dosimetry and radiation detection and measurement are presented clearly and concisely Current concepts in the fields of radiation biology and radiation protection relevant to medical imaging and a number of helpful appendices complete this comprehensive textbook The text is enhanced by numerous full color charts tables images and superb illustrations that reinforce central concepts The book is ideal for medical imaging professionals and teachers and students in medical physics and biomedical engineering Radiology residents will find this text especially useful in bolstering their understanding of imaging physics and related topics prior to board exams Artificial Intelligence in Medicine and Surgery ,2024-11-20 Never before in human history has the opportunity to create a better future look more real or promising The information technology revolution that started in the mid twentieth century with the introduction of the transistor and then the integrated circuit has gradually transformed into the Internet revolution then the blockchain revolution and now is transforming again into the artificial intelligence AI revolution Why is now such a pivotal time with so much optimism for a better future The answer is complex and multifaceted Perhaps most importantly the introduction of low cost AI enabled technological advances creates an ideal environment for the rapid attainment of global equity across multiple sectors of society and economy Healthcare in general and medicine in particular stand to benefit tremendously from this new previously unavailable capacity a result of the synergistic effects of modern cutting edge technologies working together For example greater access to decentralized locally based AI aided facilitated medical education may help fulfill the dreams of individuals who previously were not able to become physicians In another example increasing the use of point of care AI ML in the clinical setting promises to bring true precision medicine to populations that previously did not have adequate access to healthcare in general The level of positive disruption possible with optimized ethical and thoughtful implementation of AI in healthcare may produce constructive ripple effects not dissimilar to the introduction of cellular telephony into areas of the world without prior telephone access This book discusses both current trends and future developments in AI ML across healthcare with a focus on the transformational impact of this emerging technological domain on enhancing the access accuracy education equity guality safety and value of modern care Koneman's Color Atlas and Textbook of Diagnostic Microbiology Elmer W. Koneman, 2006 Long considered the delivery definitive work in its field this new edition presents all the principles and practices readers need for a solid grounding in all aspects of clinical microbiology bacteriology mycology parasitology and virology Tests are presented according to the Clinical and Laboratory Standards Institute formerly NCCLS format This extensively revised edition includes practical guidelines for cost effective clinically relevant evaluation of clinical specimens including extent of workup and abbreviated identification schemes New chapters cover the increasingly important areas of immunologic and molecular diagnosis Clinical correlations

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