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Learning Cardiac Imaging

LEARNING IMAGING

Ramón Ribes · Antonio Luna · Pablo R. Ros *Series Editors*

Learning Cardiac Imaging Learning Imaging

Ayman S. El-Baz, Jasjit S. Suri



Learning Cardiac Imaging Learning Imaging:

Learning Cardiac Imaging Ramón Ribes, Paola Kuschner, Antonio Luna, Joan C. Vilanova, José Manuel Jimenez-Hoyuela, 2010-03-02 After the publication of *Learning Diagnostic Imaging* which was an introductory teaching text to the ten radiological subspecialties included in the American Boards of Radiology we began to write a series of teaching texts on each radiological subspecialty If the first book of the series was mainly aimed at residents and provided them with an introductory tool to the study of radiology the subsequent volumes of the series try to provide the reader with an introduction to the study of each radiological subspecialty In *Learning Cardiac Imaging* we intend to review cardiac imaging from the perspective of the six imaging modalities usually performed to obtain anatomic and functional information of the heart In old days conventional radiographs gave us some information about the anatomy and only secondarily the pathophysiology of the heart With the advent of echocardiography the heart could be studied dynamically Nuclear Medicine and Cardiac MR allowed the study of cardiac function 32 and 64 detector multislice CT let us obtain images of the coronary tree in a noninvasive approach Cardiac imaging is complex and many health care professionals are needed firstly in the obtention and secondly in the interpretation of the images Not only radiologists cardiologists and nuclear medicine physicians are needed specialized nurses and technicians are indispensable to obtain diagnostic images of such a dynamic anatomic structure as the heart The authorship of the book reflects its multidisciplinary approach of the book

Deep Learning Applications in Medical Imaging Saxena, Sanjay, Paul, Sudip, 2020-10-16 Before the modern age of medicine the chance of surviving a terminal disease such as cancer was minimal at best After embracing the age of computer aided medical analysis technologies however detecting and preventing individuals from contracting a variety of life threatening diseases has led to a greater survival percentage and increased the development of algorithmic technologies in healthcare *Deep Learning Applications in Medical Imaging* is a pivotal reference source that provides vital research on the application of generating pictorial depictions of the interior of a body for medical intervention and clinical analysis While highlighting topics such as artificial neural networks disease prediction and healthcare analysis this publication explores image acquisition and pattern recognition as well as the methods of treatment and care This book is ideally designed for diagnostic medical imaging specialists healthcare professionals physicians medical researchers academicians and students

Advances in Cardiac Imaging and Heart Failure Management Matteo Cameli, Giovanni Benfari, Giulia Elena Mandoli, Andrea

Baggiano, 2022-11-25 **Learning Cardiac Magnetic Resonance** Massimo Imazio, Monica Andriani, Luisa Lobetti

Bodoni, Fiorenzo Gaita, 2019-05-06 This book provides an easy to use guide giving cardiologists and other physicians more confidence in training with and understanding cardiac magnetic resonance CMR in clinical daily practice The case based format promotes step by step learning and makes this book a helpful tool for students residents and trainees in cardiology An updated comprehensive review of CMR diagnostic criteria is provided for all clinical cardiovascular applications of CMR in

adult patients from ischemic heart diseases to myocarditis and from pericardial diseases to tumors artifacts and incidental findings CMR is an expanding imaging technique for cardiologists and radiologists alike Despite several textbooks manuals and dedicated texts clinicians may still find it difficult to familiarize themselves with the exam and there are limited formats that provide easy access to the basic information e g physics specific applications that are needed for training and clinical interpretation especially case based By describing the basics of physics and methodology in a straightforward manner and providing meaningful clinical examples this book will help all cardiologists dealing with cardiac imaging as well as doctors in training to quickly and accurately interpret CMR findings in their clinical practice Machine Learning in Cardiovascular

Medicine Subhi J. Al'Aref,Gurpreet Singh,Lohendran Baskaran,Dimitri Metaxas,2020-11-20 Machine Learning in Cardiovascular Medicine addresses the ever expanding applications of artificial intelligence AI specifically machine learning ML in healthcare and within cardiovascular medicine The book focuses on emphasizing ML for biomedical applications and provides a comprehensive summary of the past and present of AI basics of ML and clinical applications of ML within cardiovascular medicine for predictive analytics and precision medicine It helps readers understand how ML works along with its limitations and strengths such that they can could harness its computational power to streamline workflow and improve patient care It is suitable for both clinicians and engineers providing a template for clinicians to understand areas of application of machine learning within cardiovascular research and assist computer scientists and engineers in evaluating current and future impact of machine learning on cardiovascular medicine Provides an overview of machine learning both for a clinical and engineering audience Summarize recent advances in both cardiovascular medicine and artificial intelligence Discusses the advantages of using machine learning for outcomes research and image processing Addresses the ever expanding application of this novel technology and discusses some of the unique challenges associated with such an approach Exploring Mechanisms of Cardiac Rhythm Disturbances Using Novel Computational Methods: Prediction,

Classification, and Therapy Xin Li,G. Andre Ng,Fernando Soares Schlindwein,Jichao Zhao,Martin Bishop,2023-03-16

Multimodality imaging in cardiomyopathy Monica Mukherjee,Allison G. Hays,Juan Carlos Lopez-Mattei,Andrew D. Choi,2023-02-13 **Cardiovascular and Coronary Artery Imaging** Ayman S. El-Baz,Jasjit S. Suri,2021-11-24

Cardiovascular and Coronary Artery Imaging Volume One covers state of the art approaches for automated non invasive systems in early cardiovascular disease diagnosis The book includes several prominent imaging modalities such as MRI CT and PET technologies A special emphasis is placed on automated imaging analysis techniques which are important to biomedical imaging analysis of the cardiovascular system This is a comprehensive multi contributed reference work that details the latest developments in spatial temporal and functional cardiac imaging Takes an integrated approach to cardiovascular and coronary imaging covering machine learning deep learning and reinforcement learning approaches Covers state of the art approaches for automated non invasive systems for early cardiovascular disease diagnosis Provides a

perspective on future cardiovascular imaging and highlights areas that still need improvement Current and Future Role of Artificial Intelligence in Cardiac Imaging Steffen Erhard Petersen, Karim Lekadir, Alistair A. Young, Tim Leiner, 2020-10-09

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Learning Cardiac CT Justin Sharim, Matthew Budoff, 2025-03-28 This compact educational book provides a succinct review of the use of CT to investigate heart disease for those taking their Cardiac CT Boards. CT is an increasingly used imaging modality in cardiology with increasing numbers of patients undergoing the modality to diagnose coronary artery disease and more practitioners, cardiologists, radiologists, and physicians in training, including cardiology and advanced imaging fellows taking the Cardiac CT Board exam. *Learning Cardiac CT: A Board Review* provides a structured didactic review book targeting the Cardiac CT board exam. As such, it will be of vital use to anyone taking their Cardiac CT Boards or looking for a practical and compact review of the use of CT in investigating cardiac disease. *Intelligence-Based Cardiology and Cardiac Surgery* Anthony C.

Chang, Alfonso Limon, Robert Brisk, Francisco Lopez-Jimenez, Louise Y Sun, 2023-09-06 *Intelligence Based Cardiology and Cardiac Surgery: Artificial Intelligence and Human Cognition in Cardiovascular Medicine* provides a comprehensive survey of artificial intelligence concepts and methodologies with real-life applications in cardiovascular medicine. Authored by a senior physician data scientist, the book presents an intellectual and academic interface between the medical and data science domains. The book's content consists of basic concepts of artificial intelligence and human cognition applications in cardiology and cardiac surgery. This portfolio ranges from big data, machine, and deep learning, cognitive computing, and natural language processing in cardiac disease states such as heart failure, hypertension, and pediatric heart care. The book narrows the knowledge and expertise chasm between the data scientists, cardiologists, and cardiac surgeons, inspiring clinicians to embrace artificial intelligence methodologies, educate data scientists about the medical ecosystem, and create a transformational paradigm for healthcare and medicine. Covers a wide range of relevant topics from real-world data, large language models, and supervised machine learning to deep reinforcement and federated learning. Presents artificial intelligence concepts and their applications in many areas in an easy-to-understand format accessible to clinicians and data scientists. Discusses using artificial intelligence and related technologies with cardiology and cardiac surgery in a myriad of venues and situations. Delineates the necessary elements for successfully implementing artificial intelligence in

cardiovascular medicine for improved patient outcomes Presents the regulatory ethical legal and financial issues embedded in artificial intelligence applications in cardiology

Current and Future Role of Artificial Intelligence in Cardiac Imaging, Volume II Steffen Erhard Petersen, Alistair A. Young, Tim Leiner, Karim Lekadir, 2023-10-30 Our first Research Topic entitled Current and Future Role of Artificial Intelligence in Cardiac Imaging provided comprehensive reviews of the recent advances and potential impact of AI for a range of cardiac imaging applications and remains available as an e book to download at no cost Since this first set of publications the field has moved at pace and it is timely to now invite further up to date and topical reviews but importantly original research articles via our Research Topic Current and Future Role of Artificial Intelligence in Cardiac Imaging 2 0

Nuclear Cardiology, An issue of Heart Failure Clinics Sharmila Dorbala, Piotr Slomka, 2025-06-19 Nuclear Cardiology An issue of Heart Failure Clinics

CT of the Heart U. Joseph Schoepf, 2019-04-01 This book is a comprehensive and richly illustrated guide to cardiac CT its current state applications and future directions While the first edition of this text focused on what was then a novel instrument looking for application this edition comes at a time where a wealth of guideline driven robust and beneficial clinical applications have evolved that are enabled by an enormous and ever growing field of technology Accordingly the focus of the text has shifted from a technology centric to a more patient centric appraisal While the specifications and capabilities of the CT system itself remain front and center as the basis for diagnostic success much of the benefit derived from cardiac CT today comes from avant garde technologies enabling enhanced visualization quantitative imaging and functional assessment along with exciting deep learning and artificial intelligence applications Cardiac CT is no longer a mere tool for non invasive coronary artery stenosis detection in the chest pain diagnostic algorithms cardiac CT has proven its value for uses as diverse as personalized cardiovascular risk stratification prediction and management diagnosing lesion specific ischemia guiding minimally invasive structural heart disease therapy and planning cardiovascular surgery among many others This second edition is an authoritative guide and reference for both novices and experts in the medical imaging sciences who have an interest in cardiac CT

Modelling Congenital Heart Disease Gianfranco Butera, Silvia Schievano, Giovanni Biglino, Doff B. McElhinney, 2022-04-22 This book combines medicinal and engineering knowledge to present engineering modelling applications mainly computational but also experimental in the context of facilitating a patient centred approach to treating congenital heart disease CHD After introducing the basic concepts of engineering tools it discusses modelling and the applications of engineering techniques e g computational fluid dynamics fluid structure interaction structural simulations virtual surgery advanced image analysis 3D printing in specific congenital heart diseases It also offers a number of clinical case studies describing the applications in real life clinical practice The final section focuses on the importance of surgical training counselling and patient communication Considering the unique anatomical arrangement pre post repair in CHD as well as the different surgical strategy and device options e g stents for interventions a patient specific approach is certainly

warranted in this area of medicine and engineering is helping improve our understanding of individual patients and their particular anatomy and physiology To reinforce the idea of a necessary dialogue between clinicians and engineers this book has not only been edited by two cardiologists and two bioengineers but each chapter has been written by a clinician and an engineer incorporating both voices in the description of state of the art models for different CHDs

Advances in Clinical Cardiovascular Imaging, Echocardiography & Interventions HK Chopra, Navin C Nanda, Jagat Narula, 2019-02-28

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Artificial Intelligence in Cardiothoracic Imaging Carlo N. De Cecco, Marly van Assen, Tim Leiner, 2022-04-22 This book provides an overview of current and potential applications of artificial intelligence AI for cardiothoracic imaging Most AI systems used in medical imaging are data driven and based on supervised machine learning Clinicians and AI specialists can contribute to the development of an AI system in different ways focusing on their respective strengths Unfortunately communication between these two sides is far from fluent and from time to time they speak completely different languages Mutual understanding and collaboration are imperative because the medical system is based on physicians ability to take well informed decisions and convey their reasoning to colleagues and patients This book offers unique insights and informative chapters on the use of AI for cardiothoracic imaging from both the technical and clinical perspective It is also a single comprehensive source that provides a complete overview of the entire process of the development and use of AI in clinical practice for cardiothoracic imaging The book contains chapters focused on cardiac and thoracic applications as well more general topics on the potentials and pitfalls of AI in medical imaging Separate chapters will discuss the valorization regulations surrounding AI cost effectiveness and future perspective for different countries and continents This book is an ideal guide for clinicians radiologists cardiologists etc interested in working with AI whether in a research setting developing new AI applications or in a clinical setting using AI algorithms in clinical practice The book also provides clinical insights and overviews for AI specialists who want to develop clinically relevant AI applications

CASE-BASED STUDY FOR RADIOLOGIST AND CARDIOLOGIST R. Anand, 2018-06-30 The book provides a case based discussion on congenital heart disease cardiomyopathy cardiac tumors cardiac aneurysm and extra cardiac myopathies involving the heart Covering more than 100 cases with patient clinical and imaging details it provides a broad imaging review with emphasis on cardiac MRI The book is aimed to serve all cardiac radiologists cardiologists and cardiac surgeons

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