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The definitive guide to PACS – now with more clinically applicable material. In recent years, the field of picture archiving and communications systems—PACS—and image informatics has advanced due to both conceptual and technological advancements.

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This edition of PACS and Imaging Informatics: Basic Principles and Applications addresses the latest in this exciting field.

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Historical reviews of PACS (picture archiving and communication system) and imaging informatics development from different points of view have been published in the past (Huang in Euro J Radiol 78:163-176, 2011;

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Lenke in Euro J Radiol 78:177-183, 2011; Inamura and Jong in Euro J Radiol 78:184-189, 2011). This retrospective attempts to look at the topic from a different angle by identifying certain basic medical imaging inventions in the 1960s and 1970s which had conceptually defined basic ...

Medical imaging, PACS, and imaging informatics ...

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li, 649 pages, 8 unnumbered pages of plates : 26 cm. Revised edition of: PACS : basic principles and applications. c1999. Includes bibliographical references (pages 611-632) and index. Digital medical image fundamentals -- Digital radiography -- Computed tomography, magnetic resonance, ultrasound, nuclear medicine, and light imaging -- Image compression -- Picture archiving and communication system components and work flow -- Industrial standards (H17 and DICOM) and work flow protocols (IHE

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- Emphasizes clinical applications of PACS and integrates clinical examples throughout the text
- Reflects the many changes in the field, with new chapters on Web-based PACS, security, integrating the healthcare enterprise, clinical management systems, and the electronic patient record
- Uses the framework of imaging informatics to explain PACS, making the book accessible to those without advanced knowledge of physics, engineering, math, or information technology
- Explains how PACS can improve workflow, therapy, and treatment

With the most systematic and thorough coverage of practical applications available, this text is the complete guide for all those involved in designing,

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Implementing, and using PACS. Professionals in medical and allied health imaging informatics; radiologists and their technical staff; surgeons and oncologists and their teams; medical and electronic engineers; medical informaticians; and fellows, graduate students, and advanced undergraduates will all benefit from this valuable resource. "An excellent book for people involved in the design, implementation, or simply the operations of PACS and an appropriate textbook." –From a review of the previous edition in IEEE Engineering in Medicine and Biology "The strength of the book lies in the vast experience of the author, who has implemented PACS at numerous institutions in the United States and abroad." –From a review of the previous edition in Radiology

Thoroughly revised to present the very latest in PACS-based multimedia in medical imaging informatics—from the electronic patient record to the full range of topics in digital medical imaging—this new edition by the founder of PACS and multimedia image informatics features even more clinically applicable material than ever before. It uses the framework of PACS-based image informatics, not physics or engineering principles, to explain PACS-based multimedia informatics and its application in clinical settings and labs. New topics include Data Grid and Cloud Computing, IHE XDS-I Workflow Profile (Integrating the Healthcare

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Enterprise Cross-enterprise Document Sharing for Imaging), extending XDS to share images, and diagnostic reports and related information across a group of enterprise health care sites. PACS-Based Multimedia Imaging Informatics is presented in 4 sections. Part 1 covers the beginning and history of Medical Imaging, PACS, and Imaging Informatics. The other three sections cover Medical Imaging, Industrial Guidelines, Standards, and Compliance; Informatics, Data Grid, Workstation, Radiation Therapy, Simulators, Molecular Imaging, Archive Server, and Cloud Computing; and multimedia Imaging Informatics, Computer-Aided Diagnosis (CAD), Image-Guide Decision Support, Proton Therapy, Minimally Invasive Multimedia Image-Assisted Surgery, BIG DATA. New chapter on Molecular Imaging Informatics Expanded coverage of PACS and eHR's (Electronic Health Record), with HIPPA compliance New coverage of PACS-based CAD (Computer-Aided Diagnosis) Reorganized and expanded clinical chapters discuss one distinct clinical application each Minimally invasive image assisted surgery in translational medicine Authored by the world's first and still leading authority on PACS and medical imaging PACS-Based Multimedia Imaging Informatics: Basic Principles and Applications, 3rd Edition is the single most comprehensive and authoritative resource that thoroughly covers the critical issues of PACS-based hardware and software design and implementation in a

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systematic and easily comprehensible manner. It is a must-have book for all those involved in designing, implementing, and using PACS-based Multimedia Imaging Informatics.

Attention SIIM Members: a special discount is available to you; please log in to the SIIM website at www.siim.org/pii or call the SIIM office at 703-723-0432 for information on how you can receive the SIIM member price.

Imaging Informatics Professionals (IIPs) have come to play an indispensable role in modern medicine, and the scope of this profession has grown far beyond the boundaries of the PACS. A successful IIP must not only understand the PACS itself, but also have knowledge of clinical workflow, a base in several medical specialties, and a solid IT capability regarding software interactions and networking. With the introduction of a certification test for the IIP position, a single source was needed to explain the fundamentals of imaging informatics and to demonstrate how those fundamentals are applied in everyday practice. Practical Imaging Informatics describes the foundations of information technology and clinical image management, details typical daily operations, and discusses rarer complications and issues.

This new Second Edition addresses the latest in picture archiving and communications systems (PACS), from the electronic patient record to the full range of topics in digital

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Imaging. In contrast to the previous edition, this updated text uses the framework of image informatics, not physics or engineering principles, to explain PACS. This book is the only resource that thoroughly covers the critical issues of hardware/software design and implementation in a systematic and easily comprehensible manner. The new edition features additional chapters on web-based PACS, security, integrating the healthcare enterprise, clinical management systems, and the electronic patient record. It addresses how PACS can improve workflow, therapy, and treatment, and discusses integration of PACS in hospitals. Offering a clear guide for those purchasing and installing PACS, it is written in clear, non-technical language by a widely acknowledged pioneer in the field and does not assume advanced knowledge of physics, engineering, or math principles. The text also contains substantive new treatment of key topics in image informatics, including light imaging, digital radiography, teleconsultation, and image archive servers.

Imaging informatics is a complex and historically rapidly changing field, knowledge of which is central to the practice of all imaging specialists. This convenient pocket guide provides the foundations of knowledge in informatics, allowing radiographers in training and in practice, assistant practitioners and other allied health professionals to understand, use and

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develop more efficient ways of imaging that will in turn deliver improved patient care.

This book provides a unique introduction to the vast field of Medical Imaging Informatics for students and physicians by depicting the basics of the different areas in Radiology Informatics. It features short chapters on the different main areas in Medical Imaging Informatics, such as Picture Archiving and Communication Systems (PACS), radiology reporting, data sharing, and de-identification and anonymization, as well as standards like Digital Imaging and Communications in Medicine (DICOM), Integrating the Health Enterprise (IHE) and Health Level 7 (HL7). Written by experts in the respective fields and endorsed by the European Society of Medical Imaging Informatics (EuSoMII) the scope of the book is based on the Medical Imaging Informatics sub-sections of the European Society of Radiology (ESR) European Training Curriculum Undergraduate Level and Level I. This volume will be an invaluable resource for residents and radiologists and is also specifically suited for undergraduate training.

PACS BASIC PRINCIPLES AND APPLICATIONS H. K. Huang, D.Sc. Picture archiving and communications systems (PACS) are the foundation of digital radiology and are increasingly being implemented to streamline health-care operations, facilitate

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teleradiology, and improve patient care. PACS: Basic Principles and Applications integrates a comprehensive introduction to the imaging modalities and technical fundamentals of "filmless radiology" with clear guidelines for designing and implementing a PACS system. Written by a leading expert and featuring numerous illustrations, line drawings, and schematic diagrams, this practical, user-friendly resource includes individual chapters on such topics as: * Digital radiologic image fundamentals * Industry standards, with an emphasis on HL7 and DICOM * Image compression * Image acquisition gateways * Communications and networking * System design, installation, and evaluation * Clinical applications and pitfalls * Future development of PACS PACS: Basic Principles and Applications is an essential reference and invaluable sourcebook for radiologists and radiology residents and technologists, as well as for imaging facility planners and support staff.

This is the second edition of a very popular book on DICOM that introduces this complex standard from a very practical point of view. It is aimed at a broad audience of radiologists, clinical administrators, information technologists, medical students, and lecturers. The book provides a gradual, down to earth introduction to DICOM, accompanied by an analysis of the most common problems associated with its implementation.

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Compared with the first edition, many improvements and additions have been made, based on feedback from readers. Whether you are running a teleradiology project or writing DICOM software, this book will provide you with clear and helpful guidance. It will prepare you for any DICOM projects or problem solving, and assist you in taking full advantage of multifaceted DICOM functionality.

Covering the basics of X-rays, CT, PET, nuclear medicine, ultrasound, and MRI, this textbook provides senior undergraduate and beginning graduate students with a broad introduction to medical imaging. Over 130 end-of-chapter exercises are included, in addition to solved example problems, which enable students to master the theory as well as providing them with the tools needed to solve more difficult problems. The basic theory, instrumentation and state-of-the-art techniques and applications are covered, bringing students immediately up-to-date with recent developments, such as combined computed tomography/positron emission tomography, multi-slice CT, four-dimensional ultrasound, and parallel imaging MR technology. Clinical examples provide practical applications of physics and engineering knowledge to medicine. Finally, helpful references to specialised texts, recent review articles, and relevant scientific journals are provided at the end

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of each chapter, making this an ideal textbook for a one-semester course in medical imaging.

With the growth of PACS installations, there is a need to educate potential users, managers, and people who support these systems about the fundamentals of the PACS technology. That is the objective of this book: to provide a basic understanding of PACS technology, as well as lessons learned from those who have used it for many years.

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