PACS and Imaging Informatics. Basic Principles and Applications. 2nd Edition

Description: 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. This edition of PACS and Imaging Informatics: Basic Principles and Applications addresses the latest in this exciting field. In contrast to the previous edition, this updated text uses the framework of image informatics, not physics or engineering principles, to explain PACS. It is the only resource that thoroughly covers the critical issues of hardware/software design and implementation in a systematic and easily comprehensible manner.

To strengthen and update the book, the author:

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, 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

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H. K. HUANG SHORT BIOGRAPHY.

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