

PACS and Imaging Informatics: Basic Principles and Applications

By H. K. Huang

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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 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.

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Editorial Review

Review
"...an excellent book for people involved in the design, implementation, or simply the operations of PACS and an appropriate textbook…" (*IEEE Engineering in Medicine and Biology*, July/August 2005)

"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…" (*Radiology*, June 2005)

From the Back Cover
First envisioned by members of the radiology community, Picture Archiving and Communication Systems (PACS) have developed to affect the entire spectrum of health care delivery. Enabled by recent advances in information technology, the PACS concept of an integrated system has progressed rapidly and proven greater than the sum of its parts. No longer does discussion center on "if." purchase justification has given way to the "how" of best practices for installing and maintaining a PACS, and best uses for clinical service, research, and education.

PACS and Imaging Informatics: Basic Principles and Applications addresses all the latest developments in this exciting field, from the electronic patient record with image distribution to the full range of topics in digital imaging. Written in clear, nontechnical language, this text features coverage of:

- Web-based PACS
- Fault-tolerant image archive servers
- Security
- Industrial standards
- Integrating the healthcare enterprise
- Clinical management systems
- Light imaging
- Digital radiography
- Teleconsultation
- PACS-based imaging informatics

PACS and Imaging Informatics uses the framework of imaging informatics to explain PACS, making the text accessible to those without advanced knowledge of physics, engineering, math, or information technology. 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.

About the Author
H.K. Huang, D.Sc., FRCR (Hon.), is Professor and Director of Informatics in the Department of Radiology at the Children's Hospital Los Angeles, University of Southern California. He also holds the position of Chair and Professor of Medical Informatics at The Hong Kong Polytechnic University, and is Honorary Professor at the Shanghai Institute of Technical Physics, The Chinese Academy of Sciences. Dr. Huang is a pioneer in picture archiving and communication system (PACS) research. He is a consultant to numerous hospitals worldwide for developing PAC systems. Dr. Huang has been awarded honorary fellowships by the Royal College of Radiologists (UK), the American Institute of Medical and Biological Engineering

(AIMBE), and the EuroPACS Society.

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