

Digital Imaging and Communications in Medicine (DICOM): A Practical Introduction and Survival Guide

By Oleg S. Pianykh

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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. 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.

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Editorial Review

Review

From the reviews:

"This book covers the structure and application of the DICOM standard in enough detail to be helpful to the general user of medical images, as well as to a programmer who is developing an image management system. … the text can also serve as a reference for those getting more involved with applications that use DICOM or those who want to develop their own DICOM application. … I would recommend this book to anyone interested in the DICOM standard." (Donald Peck, The Journal of Nuclear Medicine, Vol. 50 (8), August, 2009)

"There have been many books trying to explain the wonders of Dicom … . This book goes to a lot of detail … . descriptions contained provide a useful resource when trying to integrate systems. … The charts and graphics are easy to use and explain the mysteries well. … I would recommend this book as a good practical introduction and survival guide … . I would recommend this book, along with a practical Dicom course … for those starting out in this area." (Chris Bull, RAD Magazine, July, 2009)

From the Back Cover
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. 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.

About the Author

Oleg Pianykh received his graduate training in Applied Math and Computer Science, but has been fascinated by medical imaging since his early student years. This led to his first appointment at Louisiana State University Medical Center in 1998, and has kept him in the medical field ever since – as a developer, researcher, faculty member, business owner, and clinical project manager. These diverse endeavors have helped Dr. Pianykh to learn about DICOM imaging from many various and sometimes unexpected angles. His experiences range from the ground work in DICOM workgroups and committees to hands-on imaging projects in remote community hospitals. In August 2005, soon after being appointed Chief Information Officer for Louisiana Healthcare Network, Dr. Pianykh had to work on rebuilding the statewide PACS grid that was devastated by hurricane Katrina. A year later, he joined Harvard Medical School, where he serves as a clinical faculty member and researcher, teaches medical informatics, and heads DICOM imaging projects. Dr. Pianykh participates in many international projects, provides consultation to DICOM users and companies, and enjoys every single aspect of practical medical informatics.

Users Review

From reader reviews:

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