Biomedical Image Processing

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Biomedical Image Processing
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For current and, possibly, next generation medicine, imaging may be considered one of the most effective tools, especially for clinical diagnostics, treatment planning, and continuing therapy. Over the past few years, biomedical image processing has emerged as a key field in healthcare informatics, and not surprisingly, a series of papers and/or special issues published in the International Journal of Healthcare Information Systems and Informatics (IJHISI) has been dedicated to this particular topic. Simply stated, automated processing of image data has become an important option for future healthcare and has played a key role in almost all modalities that have migrated to direct digitally acquired techniques.

Springer has recently released Biomedical Image Processing, a new book shown in the appended image. Thomas M. Deserno, PhD., who currently is also appointed as IJHISI Co-Editor Europe, edits this book, with contributions from a team of internationally recognized experts from across the globe.

Generally speaking, the book, divided into 22 chapters, is richly illustrated with about 254 figures, providing a well-organized and substantive overview on medical image processing and analysis. It highlights numerous recent advances that have been made in academia and the related industry. Colored images are used extensively to provide insights and exemplify the methods applied as well as aid the reader in understanding the diverse complex topics and how the various facets of this sophisticated discipline may be more easily assimilated.

Established in the late 1990s and now with more than 300 volumes, the successful Springer book series that this reference source will be a part of already has a long established history. However, the concept of this book is innovative in that, unlike some previous handbooks in the related clinical area that may attempt to cover the complete range of related topics, the text attempts instead to exemplarily depict two to three selective topics in each of the general key sections. These topics are described in

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