



3D Image Processing

By Caramella, D. / Bartolozzi, C.

Condition: New. Publisher/Verlag: Springer, Berlin | Techniques and Clinical Applications | With contributions by numerous experts | Few fields have witnessed such impressive advances as the application of computer technology to radiology. Post-processing and 3D reconstruction of diagnostic images are essential for the representation of complex anatomical structures and for an understanding of pathological changes in terms of both morphology and function. The progress achieved has greatly facilitated treatment selection and accurate planning of procedures. This book, written by leading experts from many different countries, provides a comprehensive and up-to-date overview of the role of 3D image processing. The first section covers a wide range of technical aspects in an informative way. This is followed by the main section, in which the principal clinical applications are described and discussed in depth. To complete the picture, the final section focuses on recent developments in functional imaging and computer-aided surgery. This book will prove invaluable to all who have an interest in this complex but vitally important field. | Technique: US Image Acquisition (R. Lencioni, M. Perri, and D. Cioni); CT Image Acquisition from Singleslice to Multislice (M. Macari and G. Israel); MR Image Acquisition: From 2D to 3D (L. Mart-Bonmat); Surface...



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