



Pattern Recognition and Signal Analysis in Medical Imaging

Anke Meyer-Baese, Volker J. Schmid

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Medical imaging is one of the heaviest funded biomedical engineering research areas. The second edition of *Pattern Recognition and Signal Analysis in Medical Imaging* brings sharp focus to the development of integrated systems for use in the clinical sector, enabling both imaging and the automatic assessment of the resultant data.

Since the first edition, there has been tremendous development of new, powerful technologies for detecting, storing, transmitting, analyzing, and displaying medical images. Computer-aided analytical techniques, coupled with a continuing need to derive more information from medical images, has led to a growing application of digital processing techniques in cancer detection as well as elsewhere in medicine.

This book is an essential tool for students and professionals, compiling and explaining proven and cutting-edge methods in pattern recognition for medical imaging.

- New edition has been expanded to cover signal analysis, which was only superficially covered in the first edition
- New chapters cover Cluster Validity Techniques, Computer-Aided Diagnosis Systems in Breast MRI, Spatio-Temporal Models in Functional, Contrast-Enhanced and Perfusion Cardiovascular MRI
- Gives readers an unparalleled insight into the latest pattern recognition and signal analysis technologies, modeling, and applications

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