



Functional Magnetic Resonance Imaging: Novel Transform Methods

Ajay V. Deshmukh, Vikram M. Gadre

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Fundamental concepts, and some glimpses of the state-of-the-art of Magnetic Resonance Imaging (MRI) and functional MRI (fMRI) are discussed in this monograph. A discussion on novel transform methods using Wavelets and the Periodicity Transform for processing the clinical fMRI data is included. The book describes results on the original functional MRI data set. This trial fMRI dataset is provided on a CD included in this book. Making free use of this data set for further experimentation on fMRI for academic and research purpose is highly encouraged. Algorithms on a few worked examples on fMRI data processing are explained. Presentation of certain concepts in MRI and Functional MRI is made simple for the readers from interdisciplinary areas of Medical Sciences and Engineering. This book is also an effort to address a few real-life examples in fMRI which have been evolved through the collaborative research by the Engineering and Medical fraternity.



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