



Signal Processing for Magnetic Resonance Imaging and Spectroscopy (Signal Processing and Communications)

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This reference/text contains the latest signal processing techniques in magnetic resonance imaging (MRI) and magnetic resonance spectroscopy (MRS) for more efficient clinical diagnoses-providing ready-to-use algorithms for image segmentation and analysis, reconstruction and visualization, and removal of distortions and artifacts for increased detection of disease. Detailing cost-effective procedures for improved image and spectrum quality, "Signal Processing for Magnetic Resonance Imaging and Spectroscopy" discusses the evaluation of specific shapes and geometric features in MR images; modern strategies for MR data processing; the characterization and analysis of cerebral, muscular, and cardiac tissues; wavelet transform and projection on convex sets (POCS), methods for image reconstruction, restoration, and enhancement; and effective methods for the reduction of ghost artifacts.

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