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Diffusion tensor imaging and dynamic contrast enhanced MRI

By Er. Vanshika Singh

LAP Lambert Academic Publishing Feb 2013, 2013. Taschenbuch. Book Condition: Neu. 220x150x5 mm. This item is printed on demand - Print on Demand Neuware - The astonishing hypothesis of neuroscience is that thoughts and emotions are the interactions of neuronal signals. The white matter tracts are an essential part of understanding brain function. Until recently, there have been no noninvasive methods to estimate white matter tracts in the living human brain. New magnetic resonance imaging modalities and computational methods have emerged that provide a great deal of information about these structures in healthy and diseased brains. Diffusion Tensor Imaging (DTI) methods measure water diffusion throughout the brain. These measurements provide an aggregate measure of the microscopic structure of living brain tissue that has sparked the development of statistical algorithms to compare the local diffusion properties in different brains, such as those of healthy and diseased groups. Dynamic Contrast Enhanced (DCE) MR imaging is a medical imaging technique used for extracting functional and anatomical information of biological tissues under consideration by studying the behavior of an intravenously injected tracer (contrast agent). In this technique we collect the time series 2D or 3D MRI images during the distribution of intravenous para 88...



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