

Diffusion Tensor Imaging

A Practical Handbook

Wim Van Hecke
Louise Emsell
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Editors

 Springer

Diffusion Tensor Imaging A Practical Handbook

Susumu Mori



Diffusion Tensor Imaging A Practical Handbook :

Diffusion Tensor Imaging Wim Van Hecke, Louise Emsell, Stefan Sunaert, 2015-12-14 This book provides an overview of the practical aspects of diffusion tensor imaging DTI from understanding the basis of the technique through selection of the right protocols trouble shooting data quality and analyzing DTI data optimally DTI is a non invasive magnetic resonance imaging MRI technique for visualizing and quantifying tissue microstructure based on diffusion The book discusses the theoretical background underlying DTI and advanced techniques based on higher order models and multi shell diffusion imaging It covers the practical implementation of DTI derivation of information from DTI data and a range of clinical applications including neurosurgical planning and the assessment of brain tumors Its practical utility is enhanced by decision schemes and a fully annotated DTI brain atlas including color fractional anisotropy maps and 3D tractography

reconstructions of major white matter fiber bundles Featuring contributions from leading specialists in the field of DTI Diffusion Tensor Imaging A Practical Handbook is a valuable resource for radiologists neuroradiologists MRI technicians and clinicians

Diffusion Tensor Imaging and Fractional Anisotropy Rahul P. Kotian, Prakashini Koteswar, 2022-11-03 The book covers all aspects of one of the most advanced magnetic resonance imaging techniques namely Diffusion Tensor Imaging DTI and Fractional Anisotropy FA values in early Parkinson s disease PD patients It provides step by step descriptions of DTI and its use in the early diagnosis of Parkinson s disease by using FA values at several grey and white matter regions of the brain with helpful MRI DTI images It includes clear flow charts with MRI DTI imaging protocol for Parkinson s disease to aid in early diagnosis and treatment The book covers essential information on anatomy and pathology in Parkinson s disease and includes dedicated chapters on diffusion tensor imaging and FA in Parkinson s disease Additionally it covers the role of magnetic resonance imaging in Parkinson s disease with routine findings for Parkinson s disease in MRI followed by advanced imaging biomarkers and predictors in Parkinson s disease The book will assist the practitioners in the early detection of Parkinson s disease using specific imaging biomarkers with the help of FA values which will help in the early treatment of PD patients and thus extend and improve their quality of life It will also be relevant for MD radiology M Sc medical imaging technology students trainees and Ph D medical imaging graduates as well as B Sc MIT students

A Practical Guide to Advanced Diffusion MRI Mario Coriasco, Federico D'Agata, Alberto De Luca, Luciana Gennari, 2024-12-27 This practical handbook on Diffusion Weighted MRI techniques provides a concise and schematic overview of several key aspects of this imaging modality It covers the workflow from image acquisition to data processing and provides context and examples of its application for imaging the brain and other body districts The practical aspects of diffusion MRI key mathematical principles and derived metrics underlying diffusion tensor imaging DTI are explored in depth illustrating some advanced methods to overcome the limitations of DTI itself This manual also names some of the main software tools available at the time of writing for processing and provides step by step explanations of the main processing

steps with examples to enhance understanding of the post processing data workflow This manual is intended for imaging professionals including MR technologists and radiologists in training as well as other professionals who routinely use MRI

A Practical Guide to Advanced Diffusion MRI Mario Coriasco,Federico D'Agata,Alberto De Luca,Luciana Gennari,2024-11-10 This practical DWI techniques manual featuring all aspects of this modality from image acquisition to data processing is intended for technicians including radiologic technologists and radiologists in training as well as other professionals using MR in their daily routine The contents are presented in concisely and schematically and are enriched by a wealth of black and white as well as colored pictures and tables making this an invaluable and easy to consult clinical tool The main acquisition protocols are presented and explained in detail how to optimize the best sequence parameters balancing quality of the images and acquisition time reducing or eliminating the most common artefacts Further it presents the main software available with detailed descriptions on how to use it to process present and print the results Examples and tutorials using real world datasets complete the book Diffusion Weighted and Diffusion Tensor Imaging Claudia Leite,Mauricio Castillo,2016-01-16 Diffusion weighted imaging DWI is an integral part of routine neuroimaging used nearly universally in brain MRIs and more recently for the spine spinal cord and head and neck DWI provides clinically relevant information on conditions including stroke infection and neoplasms Diffusion tensor imaging DTI is a powerful newer technique with the potential for multiple protocols including the diagnosis of mild traumatic brain injury and psychiatric disorders Written by leading authorities in neuroradiology and radiology Diffusion Weighted and Diffusion Tensor Imaging A Clinical Guide provides key points and summaries on the concepts and applications required for proper implementation and interpretation of DWI and DTI Key Features More than 600 high quality illustrations Protocols and applications from early childhood to older adulthood Methods to differentiate normal versus pathological states Brain edema pathophysiology and use of DWI to distinguish between cytotoxic and vasogenic edema Utilization of DWI and DTI to diagnose trauma white matter disease tumors cerebrovascular disease and head neck and spine disorders This concise handbook is an invaluable resource for neuroradiologists and radiologists as well as fellows and residents in these disciplines With the expanding use of these procedures neuroscientists neurologists neurosurgeons and psychiatrists will also find it indispensable Diffusion Tensor Imaging Unboxing Antonio Senra Filho,2023-11-04 This guide is designed for researchers who still do not have or have little contact with the diffusion weighted imaging modality DTI in MRI After a few decades of research and development is now known that the DTI images are extremely powerful for several uses in clinical routine However along with these advances of this imaging modality there are several computational tools for image reconstruction and its visualization Do not be concerned about what is the first step to understand the DTI imaging modality because this guide have the intention to summarize the main tools and a brief discussion of what is important to DTI image for modern medicine *The Annals of Applied Statistics* ,2008 Handbook of Diffusion MR Tractography Flavio Dell'Acqua,Maxime Descoteaux,Alexander

Leemans,2024-11-19 Handbook of Tractography presents methods and applications of MR diffusion tractography providing deep insights into the theory and implementation of existing tractography techniques and offering practical advice on how to apply diffusion tractography to research projects and clinical applications Starting from the design of MR acquisition protocols optimized for tractography the book follows a pipeline approach to explain the main methods behind diffusion modelling and tractography including advanced analysis of tractography data and connectomics An extensive section of the book is devoted to the description of tractography applications in research and clinical settings to give a complete picture of tractography practice today By focusing on technology models and applications this handbook will be an indispensable reference for researchers and students with backgrounds in computer science mathematics physics neuroscience and medical science Provides a unique reference covering the whole field of MRI diffusion tractography Includes in depth descriptions of the latest research and current state of the art of methods available in the field of diffusion tractography Present a step by step pipeline approach from setting up MRI data acquisition to the analysis of large scale tractography datasets

Diagnostic Imaging of Infants and Children Robert G. Wells,2012-12-07 The essential illustrated atlas of pediatric radiology featuring more than 3 700 images Diagnostic Imaging of Infants and Children enables you to visualize the full range of pediatric diseases and injuries using the latest diagnostic imaging techniques A one of a kind survey of the entire spectrum of disease in neonates infants children and adolescents Diagnostic Imaging of Infants and Children is filled with 3 794 high quality images of every modality X ray CT ultrasound MRI nuclear medicine and more Diagnostic Imaging of Infants and Children features an organization that reflects how a practicing radiologist approaches a typical case beginning with the clinical presentation and pathology of a disease and proceeding through the findings for each important imaging technique FEATURES Expert coverage of every modality currently available CT MRI ultrasound x ray nuclear medicine PET echocardiography and cardiac MRI Practical emphasis on what radiologists and residents need to know in their daily practice Logical organization by body systems Review of developmental abnormalities of each organ system provides a solid foundation for understanding diagnostic tools and techniques Clinical Presentations provide symptom based reviews that clarify key pediatric radiology concepts and enable you to confidently evaluate children with any disease or injury Skill sharpening differential diagnosis tables some of which correlate the clinical and radiographic features aid comprehension by putting the latest protocols at your fingertips Hundreds of Pathology Radiology tables throughout the text serve as quick reference guides and are great tools for resident study and review Chapter ending full references

Clinical Magnetic Resonance Imaging Robert R. Edelman,2006

Adams and Victor's Principles of Neurology 11th Edition Allan H. Ropper,Martin A. Samuels,Joshua P. Klein,2019-05-22 The definitive guide to understanding diagnosing and treating neurologic disease more complete timely and essential than ever A Doody's Core Title for 2021 Adams and Victor's Principles of Neurology is truly the classic text in its discipline a celebrated volume that guides clinicians to an in depth understanding

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Adams and Victor's Principles of Neurology, Twelfth Edition Allan H. Ropper, Martin A. Samuels, Joshua P. Klein, Sashank Prasad, 2023-05-06 The definitive text on the full spectrum of neurology 50th Anniversary Edition A Doody's Core Title for 2024 For 50 years the field's gold standard text Adams and Victor's Principles of Neurology provides up to date treatment and management strategies needed to confidently handle both common and rare neurologic conditions Presented in full color this enduring resource meets the needs of today's aspiring clinician or seasoned professional and has been hailed as the most detailed thorough and authoritative text on the subject Adams and Victor's Principles of Neurology Twelfth Edition features An evenness of style and a uniform approach to subject matter across subspecialties that allows a quick and easy review of each topic and condition Scholarly discussions that give readers a comprehensive overview of neurologic illnesses Unrivaled coverage of signs and symptoms Evidence based discussions of the full range of therapeutic options available to treat neurologic diseases including drug therapy and rehabilitation methods Coverage of the most exciting discoveries from modern neuroscience that bear on and explain neurologic diseases and treatments More than 900 full color high quality images and illustrations

Journal of the American Statistical Association American Statistical Association, 2000 *Dissertation Abstracts International*, 2005 **Proceedings of the ... IEEE Conference on Visualization**, 1990 *Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards*, 2007

Statistical Diffusion Tensor Imaging: From Data Quality to Fiber Tracking Susanne Heim, 2007-08-09 Magnetic resonance diffusion tensor imaging DTI allows to infer the ultrastructure of living tissue In brain mapping neural fiber

trajectories can be identified by exploiting the anisotropy of diffusion processes. Manifold statistical methods may be linked into the comprehensive processing chain that is spanned between DTI raw images and the reliable visualization of fibers. In this work, a space-varying coefficients model (SVC) using penalized B-splines was developed to integrate diffusion tensor estimation, regularization, and interpolation into a unified framework. The implementation challenges originating in multiple 3D space-varying coefficient surfaces and the large dimensions of realistic datasets were met by incorporating matrix sparsity and efficient model approximation. Superiority of B-spline based SVC to the standard approach was demonstrable from simulation studies in terms of the precision and accuracy of the individual tensor elements. The integration with a probabilistic fiber tractography algorithm and application on real brain data revealed that the unified approach is at least equivalent to the serial application of voxelwise estimation, smoothing, and interpolation. From the error analysis using boxplots and visual inspection, the conclusion was drawn that both the standard approach and the B-spline based SVC may suffer from low local adaptivity. Therefore, wavelet basis functions were employed for filtering diffusion tensor fields. While excellent local smoothing was indeed achieved by combining voxelwise tensor estimation with wavelet filtering, no immediate improvement was gained for fiber tracking. However, the thresholding strategy needs to be refined, and the proposed model of an incorporation of wavelets into an SVC needs to be implemented to finally assess their utility for DTI data processing. In summary, an SVC with specific consideration of the demands of human brain DTI data was developed and implemented, eventually representing a unified postprocessing framework. This represents an experimental and statistical platform to further improve the reliability of tractography. The reader might find Chapters 1 and 4 particularly useful for a concise introduction to magnetic resonance imaging and to wavelet theory. The SVC model was implemented in R and is available online as a package of the same name.

Introduction to Diffusion Tensor Imaging Susumu Mori, 2007. The concept of Diffusion Tensor Imaging (DTI) is often difficult to grasp even for Magnetic Resonance physicists. *Introduction to Diffusion Tensor Imaging* uses extensive illustrations, not equations, to help readers to understand how DTI works. Emphasis is placed on the interpretation of DTI images, the design of DTI experiments, and the forms of application studies. The theory of DTI is constantly evolving, and so there is a need for a textbook that explains how the technique works in a way that is easy to understand. *Introduction to Diffusion Tensor Imaging* fills this gap. Uses extensive illustrations to explain the concept of Diffusion Tensor Imaging. Easy to understand even without a background in physics. Includes sections on image interpretation, experimental design, and applications.

[Diffusion tensor imaging application](#) Litao Shen, 2015. *Physics Briefs*, 1989.

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