

Book Chapters:

1. **Hasan KM.** Fundamentals of Diffusion Tensor Imaging of the Entire Human Brain: Review of Basic Theory, Data Acquisition, Processing and Potential Applications at 1.5 T and 3.0 T. Chapter 1. p 1-80. In Chen FJ. Progress in Brain Mapping Research. Nova Science Publishers, Hauppauge NY, 2006
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2. Hasan KM, Pedraza O. Improving the Reliability of Manual and Automated Methods for Hippocampal and Amygdala Volume Measurements. *Neuroimage* 2009 (in press; doi:10.1016/j.neuroimage.2009.05.004).
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Abstracts and Presentations:

1. **Hasan KM**, Kamali A, Juraneck J. Mapping the Human Brain Fiber Tracts Relative to Deep and Cortical Gray Matter Using Diffusion Tensor Imaging at High Angular and Spatial Resolution. The Houston Society for Engineering in Medicine and Biology (HSEMB 08 Conference), Houston, 02/07/2008 (Invited Talk).
2. **Hasan KM**, Halphen C, Kamali A, Wolinsky JS, Narayana PA. Caudate Nuclei Degeneration in Multiple Sclerosis: A Multi-Modal Quantitative MRI Approach. Proceedings of the 16th ISMRM Meeting and Exhibition. Toronto, Canada. May 3-9, 2008: p1615.
3. **Hasan KM**, Halphen C, Kamali A, Wolinsky JS, Narayana PA. A Diffusion Tensor Imaging Surrogate Marker of Brain Atrophy in Multiple Sclerosis. Proceedings of the 16th ISMRM Meeting and Exhibition, Toronto, Canada May 3-9, 2008: p 708.
4. Kamali A, Juraneck J, **Hasan KM**. Mapping the Human brain fiber pathways using diffusion tensor imaging at high angular and spatial resolution. Neuroscience Research Center 14th Annual Poster Session, 12/1/2007, #32.
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9. **Hasan KM** and others # 2713. A Multi-Scale Whole-Brain Optimized Diffusion Tensor Imaging of Dyslexics at 3.0T ISMRM 2007, Berlin Germany
10. Boska M, **Hasan KM** and others #5031. Quantitative Diffusion Tensor Imaging in a murine model of Parkinson's Disease ISMRM 2007, Berlin Germany
11. Kramer LA, **Hasan KM** and colleagues #78. Comparison of Left and Right Ventricle Functional Measurements Using Steady State Free Precession-Short Axis versus Four Chamber Analysis ISMRM 2007, Berlin Germany.
12. Poonawalla AH, **Hasan KM**, and others #4898. Increased Fractional Anisotropy in cortical lesions in multiple

sclerosis. ISMRM 2007, Berlin Germany.

13. Hahn K, **Hasan KM** and colleagues. Can we expect reproducible and unbiased information from denoised Diffusion Tensor Imaging with low SNR. #2797

14. **Hasan KM**. Diffusion Tensor Imaging of the Corpus Callosum in Multiple Sclerosis and Healthy Adults. University of Texas Houston, U of T, Research Retreat, the Houstonian March 04, 2005 (talk).

15. **Hasan KM**. Diffusion Tensor Imaging of Wallerian Degeneration: Application to Multiple Sclerosis. University of British Columbia, Vancouver, Canada Dec 1st, 2004 (Invited Talk).

16. **Hasan KM**. Diffusion Tensor Imaging of Wallerian Degeneration: Application to Multiple Sclerosis. University of Texas Houston, Grand Rounds in Neurology Feb 04, 2005 (Invited Talk).

17. **Hasan KM**. Applications of Diffusion Tensor Imaging to Human Brain Mapping. University of Nebraska Medical School, Omaha, Jul 14, 2005 (Invited Talk).

18. **Hasan KM**. Department of Diagnostic Imaging wide Research Seminar. Diffusion Tensor Imaging of the Human Brain, June 2006.

19. **Hasan KM**, Rodenacker K and Hahn KR. Evaluation of SNR Performance and Utility of High Spatial and Angular Resolution Denoised 1mm³ Isotropic DTI of Entire Human Brain at 3.0 T International Society of Magnetic Resonance in Medicine 14 th Meeting in Seattle, Washington, USA, May 6-12, 2006 (talk)

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23. Deo AA, Grill RJ, **Hasan KM**, Narayana PA. In vivo Longitudinal Diffusion Tensor Imaging of Spinal Cord Injury in Rats International Society of Magnetic Resonance in Medicine 14 th Meeting in Seattle, Washington, USA, May 6-12, 2006 (talk given on behalf of Deo)

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34. **Hasan KM**, Linda Ewing-Cobbs and Ponnada A. Narayana. Comparison and Modeling of Entire Brain Same Subject DTI Results at 1.5 T and 3.0 T using Icosahedral Schemes: Application to Normal, Multiple Sclerosis and Pediatric Post Traumatic Brain Injury. Abstract #12, presented at the ISMRM workshop on Methods for Quantitative Diffusion MRI of Human Brain, 13-16 March 2005, Alberta Canada.
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38. Magnetic Resonance in Medicine. Miami, Florida 2005, p 292 (Talk).
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