

Journal Publications

In preparation

Mohammadi S, Tabelow K, Feiweier T, Polzehl J, Weiskopf N, High-resolution diffusion kurtosis imaging (DKI) improves detection of gray-white matter boundaries.

Published

1. Mohammadi S, Freund P, Feiweier T, Curt A, Weiskopf N (2013), The impact of post-processing on spinal cord diffusion tensor imaging. *Neuroimage* 70: 377-85, [doi:10.1016/j.neuroimage.2012.12.058](https://doi.org/10.1016/j.neuroimage.2012.12.058).
2. Mohammadi S, Hutton C, Nagy Z, Josephs O, Weiskopf N (2012), Retrospective correction of physiological noise in DTI using an extended tensor model and peripheral measurements. *Magnetic Resonance in Medicine* (in press), [doi:10.1002/mrm.23308](https://doi.org/10.1002/mrm.23308).
3. Reilmann R, Holtbernd F, Bachmann R, Mohammadi S, Ringelstein EB, and Deppe M (2012), "Grasping multiple sclerosis: do quantitative motor assessments provide a link between structure and function?," *J. Neurol.* (in press), [doi:10.1007/s00415-012-6639-7](https://doi.org/10.1007/s00415-012-6639-7).
4. Mohammadi S, Keller SS, Glauche V, Kugel H, Jansen J, Hutton C, Flöel A, and Deppe M (2012), "The Influence of Spatial Registration on Detection of Cerebral Asymmetries Using Voxel-Based Statistics of Fractional Anisotropy Images and TBSS," *PLoS ONE* 7(6): e36851. [doi:10.1371/journal.pone.0036851](https://doi.org/10.1371/journal.pone.0036851).
5. Stubbe-Dräger B, Deppe M, Mohammadi S, Keller SS, Kugel H, Gregor N, Evers S, Young P, Ringelstein EB, Arendt G, Knecht S, and Husstedt IW (2012), "Early microstructural white matter changes in patients with HIV: a diffusion tensor imaging study," *BMC neurology*, (in press), [doi:10.1186/1471-2377-12-23](https://doi.org/10.1186/1471-2377-12-23).
6. Gerdes JS, Keller SS, Schwindt W, Evers S, Mohammadi S, and Deppe M (2012), "Progression of microstructural putamen alterations in a case of symptomatic recurrent seizures using diffusion tensor imaging," *Seizure* 21 (6): 478–481, [doi:10.1016/j.seizure.2012.03.015](https://doi.org/10.1016/j.seizure.2012.03.015).
7. Keller SS, Gerdes JS, Mohammadi S, Kellinghaus C, Kugel H, Deppe K, Ringelstein EB, Evers S, Schwindt W, and Deppe M (2012), "Volume Estimation of the Thalamus Using Freesurfer and Stereology: Consistency between Methods", *Neuroinformatics* (in press), [doi:10.1007/s12021-012-9147-0](https://doi.org/10.1007/s12021-012-9147-0).
8. Mohammadi S, Nagy Z, Möller HE, Symms MR, Carmichael DW, Josephs O, Weiskopf N (2012), The effect of local perturbation

fields on human DTI: Characterisation, measurement and correction. *NeuroImage* 60 (1): 562-570, [doi:10.1016/j.neuroimage.2011.12.009](https://doi.org/10.1016/j.neuroimage.2011.12.009).

9. Mohammadi S, Nagy Z, Hutton C, Josephs O, Weiskopf N (2012), Correction of vibration artifacts in DTI using phase-encoding reversal (COVIPER). *Magnetic Resonance in Medicine*: 68 (3):882-9, [doi:10.1002/mrm.23308](https://doi.org/10.1002/mrm.23308).
10. Keller SS, Ahrens T, Mohammadi S, Gerdes JS, Möddel G, Kellinghaus C, Kugel H, Weber B, Ringelstein EB and Deppe M (2011), Voxel-Based Statistical Analysis of Fractional Anisotropy and Mean Diffusivity in Patients with Unilateral Temporal Lobe Epilepsy of Unknown Cause. *Journal of Neuroimaging*. (in press), [doi:10.1111/j.1552-6569.2011.00673](https://doi.org/10.1111/j.1552-6569.2011.00673).
11. Duning T, Schiffbauer H, Warnecke T, Mohammadi S, Floel A, Kolpatzik K, Kugel H, Schneider A, Knecht S, Deppe M, Schabitz WR (2011) G-CSF Prevents the Progression of Structural Disintegration of White Matter Tracts in Amyotrophic Lateral Sclerosis: A Pilot Trial. *PLoS ONE* 6(3): e17770. [doi:10.1371/journal.pone.0017770](https://doi.org/10.1371/journal.pone.0017770).
12. Keller SS, Ahrens T, Mohammadi S, Möddel G, Kugel H, Ringelstein EB, Deppe M (2011), Microstructural and volumetric abnormalities of the putamen in juvenile myoclonic epilepsy. *Epilepsia*, 52: 1715–1724. [doi:10.1111/j.1528-1167.2011.03117.x](https://doi.org/10.1111/j.1528-1167.2011.03117.x).
13. Mueller K, Anwander A, Moller HE, Horstmann A, Lepsien J, Busse F, Mohammadi S, Schroeter ML, Stumvoll M, Villringer A, Pleger B (2011) Sex-Dependent Influences of Obesity on Cerebral White Matter Investigated by Diffusion-Tensor Imaging. *PLoS ONE* 6(4): e18544. [doi:10.1371/journal.pone.0018544](https://doi.org/10.1371/journal.pone.0018544).
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16. Keller SS, Roberts N, Garcia-Finana M, Mohammadi S, Ringelstein EB, Knecht S, Deppe M (2010) Can the Language-dominant Hemisphere Be Predicted by Brain Anatomy? *J Cogn Neurosci*, [doi:10.1162/jocn.2010.21563](https://doi.org/10.1162/jocn.2010.21563).

17. Kleffner I, Deppe M, Mohammadi S, Schwindt W, Sommer J, Young P, Ringelstein EB (2010) Neuroimaging in Susac's syndrome: focus on DTI. J Neurol Sci 299: 92-96, [doi:10.1016/j.jns.2010.08.028](https://doi.org/10.1016/j.jns.2010.08.028).
18. Meinzer M*, Mohammadi S*, Kugel H, Schiffbauer H, Floel A, Albers J, Kramer K, Menke R, Baumgartner A, Knecht S, Breitenstein C, Deppe M (2010) Integrity of the hippocampus and surrounding white matter is correlated with language training success in aphasia. Neuroimage 53: 283-290. (* *shared first authorship*), [doi:10.1016/j.neuroimage.2010.06.004](https://doi.org/10.1016/j.neuroimage.2010.06.004).
19. Mohammadi S, Moller HE, Kugel H, Muller DK, Deppe M (2010) Correcting eddy current and motion effects by affine whole-brain registrations: evaluation of three-dimensional distortions and comparison with slicewise correction. Magn Reson Med 64: 1047-1056, [doi:10.1002/mrm.22501](https://doi.org/10.1002/mrm.22501).
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23. Duning T, Deppe M, Keller S, Mohammadi S, Schiffbauer H, Marziniak M (2009) Diffusion tensor imaging in a case of Kearns-Sayre syndrome: Striking brainstem involvement as a possible cause of oculomotor symptoms. J Neurol Sci 80: 432-436, [doi:10.1136/jnnp.2008.153148](https://doi.org/10.1136/jnnp.2008.153148).
24. Kovac S, Deppe M, Mohammadi S, Schiffbauer H, Schwindt W, Möddel G, Dogan M, Evers S (2009) Gelastic seizures: a case of lateral frontal lobe epilepsy and review of the literature. Epilepsy Behav 15 (2): 249-253, [doi:10.1016/j.yebeh.2009.03.004](https://doi.org/10.1016/j.yebeh.2009.03.004).
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drug: Case report and new pathophysiological insights. *Seizure* 17 (7): 654-657, [doi:10.1016/j.seizure.2008.01.004](https://doi.org/10.1016/j.seizure.2008.01.004).

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28. Deppe M, Duning T, Mohammadi S, Schwindt W, Kugel H, Knecht S, Ringelstein EB (2007) Diffusion-Tensor Imaging at 3 T: Detection of White Matter Alterations in Neurological Patients on the Basis of Normal Values. *Invest Radiol* 42 (6): 338-345, [doi:10.1097/01.rli.0000261935.41188.39](https://doi.org/10.1097/01.rli.0000261935.41188.39).
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