Keywords: Medical Imaging—biology—biomed

List of Publications

2019

Journal Articles

[J1] F. Pasa, V. Golkov, F. Pfeiffer, D. Cremers and D. Pfeiffer,
Efficient Deep Network Architectures for Fast Chest X-Ray Tuberculosis Screening and Visualization,

A Non-invasive 3D Body Scanner and Software Tool towards Analysis of Scoliosis,

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[C1] A. Vasilev, V. Golkov, M. Meissner, I. Lipp, E. Sgarlata, V. Tomassini, D. K. Jones and D. Cremers,
q-Space Novelty Detection with Variational Autoencoders,

[C2] P. Swazinna, V. Golkov, I. Lipp, E. Sgarlata, V. Tomassini, D. K. Jones and D. Cremers,
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2018.

q-Space Deep Learning for Alzheimer’s Disease Diagnosis: Global Prediction and Weakly-Supervised Localization,
2018.

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[J1] V. Golkov, M. J. Skwark, A. Mirchev, G. Dikov, A. R. Geanes, J. Mendenhall, J. Meiler and D. Cremers,
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*Tau Like Proteins Reduce Torque Generation in Microtubule Bundles,*

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Establishment of an interdisciplinary workflow of machine learning-based Radiomics in sarcoma patients,

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35: 2016, Special Issue on Deep Learning.

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[C1] V. Golkov, T. Sprenger, J. I. Sperl, M. I. Menzel, M. Czisch, P. Sämann and D. Cremers,
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[C2] V. Golkov, M. J. Skwark, A. Golkov, A. Dosovitskiy, T. Brox, J. Meiler and D. Cremers,
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2015

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[BC1] V. Golkov, J. M. Portegies, A. Golkov, R. Duits and D. Cremers,
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*Computational Diffusion MRI*, Munich, Germany, Springer, October 2015, Book Chapter, and Oral Presentation at MICCAI 2015 Workshop on Computational Diffusion MRI.
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X.-C. Tai, E. Bae, T. F. Chan and M. Lysaker (Eds.), 2015.

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[C4] A. Menini, V. Golkov and F. Wiesinger,
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Total Variation- Regularized Compressed Sensing Reconstruction for Multi-Shell Diffusion Kurtosis Imaging,
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2014.
Keywords: Medical Imaging—biology—biomedical

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Semi-Joint Reconstruction for Diffusion MRI Denoising Imposing Similarity of Edges in Similar Diffusion-Weighted Images,
2014.

Improved Diffusion Kurtosis Imaging and Direct Propagator Estimation Using 6-D Compressed Sensing,
2014.

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[J1] C. Nieuwenhuis and D. Cremers,
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Keywords: Medical Imaging—biology—biomedical

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Pattern Recognition, 44: 2944-2958, 2011.

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6th IEEE ISIF Workshop on Sensor Data Fusion: Trends, Solutions, Applications (SDF),
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[C1] M. Schikora, A. Schikora, K.-H. Kogel, W. Koch and D. Cremers,
Probabilistic Classification of Disease Symptoms caused by Salmonella on Arabidopsis Plants,
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Leipzig, Germany, September 2010.

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[C1] T. Pock, A. Chambolle, H. Bischof and D. Cremers,
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[BC1] D. Cremers and M. Rousson,
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[J1] D. Cremers and A. V. M. Herz,
Travelling waves of exitation in neural field models: Equivalence of rate descriptions and integrate-and-fire dynamics,