Keywords: Medical Imaging—biology—biomed

List of Publications

2019

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[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,

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q-Space Novelty Detection with Variational Autoencoders,
*MICCAI 2019 International Workshop on Computational Diffusion MRI*, 2019, Oral Presentation.

[C2] P. Swazinna, V. Golkov, I. Lipp, E. Sgarlata, V. Tomassini, D. K. Jones and D. Cremers,
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q-Space Novelty Detection in Short Diffusion MRI Scans of Multiple Sclerosis, 2018.

q-Space Deep Learning for Alzheimer’s Disease Diagnosis: Global Prediction and Weakly-Supervised Localization,
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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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Keywords: Medical Imaging—biology—biomedical

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Prague, Czech Republic, April 2016.

[C2] V. Golkov, M. J. Skwark, A. Golkov, A. Dosovitskiy, T. Brox, J. Meiler and D. Cremers,
Protein Contact Prediction from Amino Acid Co-Evolution Using Convolutional Networks for Graph-Valued Images,
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2015

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[J1] M. Klodt, K. Herzog, R. Töpfer and D. Cremers,
Field phenotyping of grapevine growth using dense stereo reconstruction,

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[BC1] V. Golkov, J. M. Portegies, A. Golkov, R. Duits and D. Cremers,
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A Fast Projection Method for Connectivity Constraints in Image Segmentation,  
X.-C. Tai, E. Bae, T. F. Chan and M. Lysaker (Eds.), 2015.

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2014.
Keywords: Medical Imaging—biology—biomed

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

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on,

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Hardy, L. Marinelli, M. Czisch, P. Sämann, A. Haase and M.I. Menzel,
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Keywords: Medical Imaging—biology—biomech

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Evaluation of DSI Imaging with Compressed Sensing under the Presence of Different Noise Levels on a Diffusion Phantom, 
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Comparison of Diffusion Kurtosis Tensor Estimation Methods in an Advanced Quality Assessment Framework, 
2012.
Keywords: Medical Imaging—biology—biomedical

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[C2] S. Madhogaria, M. Schikora, W. Koch and D. Cremers,
Pixel-based Classification Method for Detecting Unhealthy Regions in Leaf Images,
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2010

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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,
*5th IEEE ISIF Workshop on Sensor Data Fusion: Trends, Solutions, Applications (SDF)*, Leipzig, Germany, September 2010.

2009

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[C1] T. Pock, A. Chambolle, H. Bischof and D. Cremers,
A Convex Relaxation Approach for Computing Minimal Partitions,

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[J1] D. Cremers, M. Rousson and R. Deriche,
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Travelling waves of exitation in neural field models: Equivalence of rate descriptions and integrate-and-fire dynamics,