

Tobias Wech

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

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#	ARTICLE	IF	CITATIONS
1	A data-driven semantic segmentation model for direct cardiac functional analysis based on undersampled radial MR cine series. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 972-983.	1.9	2
2	Evaluation of combined late gadolinium-enhancement and functional cardiac magnetic resonance imaging using spiral real-time acquisition. <i>NMR in Biomedicine</i> , 2022, 35, e4732.	1.6	2
3	Real-time cardiac $\langle \text{scp} \rangle \text{MRI} \langle / \text{scp} \rangle$ using an undersampled spiral \hat{k} -space trajectory and a reconstruction based on a variational network. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 2167-2178.	1.9	5
4	Accelerated aortic 4D flow MRI with wave-CAIPI. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2595-2607.	1.9	4
5	Cardiac real-time MRI using a pre-emphasized spiral acquisition based on the gradient system transfer function. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2747-2760.	1.9	11
6	Deep learning-based segmentation of the lung in MR-images acquired by a stack-of-spirals trajectory at ultra-short echo-times. <i>BMC Medical Imaging</i> , 2021, 21, 79.	1.4	7
7	Deep learning-based cardiac cine segmentation: Transfer learning application to 7T ultrahigh-field MRI. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2179-2191.	1.9	14
8	Non-contrast pulmonary perfusion MRI in patients with cystic fibrosis. <i>European Journal of Radiology</i> , 2021, 139, 109653.	1.2	6
9	Self-configuring nnU-net pipeline enables fully automatic infarct segmentation in late enhancement MRI after myocardial infarction. <i>European Journal of Radiology</i> , 2021, 141, 109817.	1.2	10
10	The temperature dependence of gradient system response characteristics. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 1519-1527.	1.9	11
11	Free-breathing self-gated 4D lung MRI using wave-CAIPI. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 3223-3233.	1.9	12
12	Field camera versus phantom-based measurement of the gradient system transfer function (GSTF) with dwell time compensation. <i>Magnetic Resonance Imaging</i> , 2020, 71, 125-131.	1.0	3
13	A compressed sensing accelerated radial MS-CAIPIRINHA technique for extended anatomical coverage in myocardial perfusion studies on PET/MR systems. <i>Physica Medica</i> , 2019, 64, 157-165.	0.4	4
14	Real-time Triggered RAdial Single-Shot Inversion recovery for arrhythmia-insensitive myocardial T1 mapping: motion phantom validation and in vivo comparison. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1714-1725.	1.9	2
15	Power-Doppler perfusion phenotype in RA patients is dependent on anti-citrullinated peptide antibody status, not on rheumatoid factor. <i>Rheumatology International</i> , 2019, 39, 1019-1025.	1.5	3
16	UTE-SENSEFUL: first results for 3D high-resolution lung ventilation imaging. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2464-2473.	1.9	37
17	Gradient waveform pre-emphasis based on the gradient system transfer function. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1521-1532.	1.9	24
18	Robust motion correction in CEST imaging exploiting low-rank approximation of the \hat{z} -spectrum. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1979-1988.	1.9	16

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19	Single-shot late Gd enhancement imaging of myocardial infarction with retrospectively adjustable contrast and heart-phase. <i>Magnetic Resonance Imaging</i> , 2018, 47, 48-53.	1.0	4
20	Frequency-modulated bSSFP for phase-sensitive separation of water and fat. <i>Magnetic Resonance Imaging</i> , 2018, 53, 82-88.	1.0	0
21	Multifrequency reconstruction for frequency-modulated bSSFP. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 2226-2235.	1.9	6
22	Comparison of Turbo Spin Echo and Echo Planar Imaging for intravoxel incoherent motion and diffusion tensor imaging of the kidney at 3 Tesla. <i>Zeitschrift Fur Medizinische Physik</i> , 2017, 27, 193-201.	0.6	6
23	Anti-CCP status determines the power Doppler oscillation pattern in rheumatoid arthritis: a prospective study. <i>Rheumatology International</i> , 2016, 36, 1671-1675.	1.5	4
24	An intravoxel oriented flow model for diffusion-weighted imaging of the kidney. <i>NMR in Biomedicine</i> , 2016, 29, 1403-1413.	1.6	25
25	Development of Real-Time Magnetic Resonance Imaging of Mouse Hearts at 9.4 Tesla— Simulations and First Application. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 912-920.	5.4	10
26	Using self-consistency for an iterative trajectory adjustment (SCITA). <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1151-1157.	1.9	15
27	Model-Based Acceleration of Look-Locker T1 Mapping. <i>PLoS ONE</i> , 2015, 10, e0122611.	1.1	24
28	High resolution myocardial first-pass perfusion imaging with extended anatomic coverage. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 1575-1587.	1.9	28
29	Measurement accuracy of different active tracking sequences for interventional MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 490-495.	1.9	6
30	Consideration of slice profiles in inversion recovery Look-Locker relaxation parameter mapping. <i>Magnetic Resonance Imaging</i> , 2014, 32, 1021-1030.	1.0	10
31	Accelerated radial Fourier-velocity encoding using compressed sensing. <i>Zeitschrift Fur Medizinische Physik</i> , 2014, 24, 190-200.	0.6	5
32	Whole-Heart Cine MRI in a Single Breath-Hold — Compressed Sensing Accelerated 3D Acquisition Technique for Assessment of Cardiac Function. <i>RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren</i> , 2013, 186, 37-41.	0.7	18
33	Model-based Acceleration of Parameter mapping (MAP) for saturation prepared radially acquired data. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1524-1534.	1.9	33
34	Resolution evaluation of MR images reconstructed by iterative thresholding algorithms for compressed sensing. <i>Medical Physics</i> , 2012, 39, 4328-4338.	1.6	20
35	Accelerating cine-MR imaging in mouse hearts using compressed sensing. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 1072-1079.	1.9	39