

# Joachim Hornegger

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

379  
papers

10,266  
citations

48  
h-index

91  
g-index

408  
ext. papers

11,984  
ext. citations

3.9  
avg, IF

5.99  
L-index

#	Paper	IF	Citations
379	A learning-based material decomposition pipeline for multi-energy x-ray imaging. <i>Medical Physics</i> , <b>2019</b> , 46, 689-703	4.4	18
378	Multi-Scale Deep Reinforcement Learning for Real-Time 3D-Landmark Detection in CT Scans. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2019</b> , 41, 176-189	13.3	122
377	Material Decomposition Using Ensemble Learning for Spectral X-ray Imaging. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2018</b> , 2, 194-204	4.2	10
376	Classification With Truncated Distance Kernel. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2018</b> , 29, 2025-2030	10.3	11
375	An MR-Based Model for Cardio-Respiratory Motion Compensation of Overlays in X-Ray Fluoroscopy. <i>IEEE Transactions on Medical Imaging</i> , <b>2018</b> , 37, 47-60	11.7	6
374	Single-breath-hold 3-D CINE imaging of the left ventricle using Cartesian sampling. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2018</b> , 31, 19-31	2.8	24
373	Temporal and volumetric denoising via quantile sparse image prior. <i>Medical Image Analysis</i> , <b>2018</b> , 48, 131-146	15.4	9
372	Single-breath-hold abdominal [Formula: see text] mapping using 3D Cartesian Look-Locker with spatiotemporal sparsity constraints. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2018</b> , 31, 399-414	2.8	1
371	Towards intelligent robust detection of anatomical structures in incomplete volumetric data. <i>Medical Image Analysis</i> , <b>2018</b> , 48, 203-213	15.4	21
370	Dynamic 2-D/3-D Rigid Registration Framework Using Point-To-Plane Correspondence Model. <i>IEEE Transactions on Medical Imaging</i> , <b>2017</b> , 36, 1939-1954	11.7	17
369	Accelerating multi-echo water-fat MRI with a joint locally low-rank and spatial sparsity-promoting reconstruction. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2017</b> , 30, 189-202	2.8	9
368	Restoration of missing data in limited angle tomography based on Helgason-Ludwig consistency conditions. <i>Biomedical Physics and Engineering Express</i> , <b>2017</b> , 3, 035015	1.5	19
367	Design and evaluation of a portable intra-operative unified-planning-and-guidance framework applied to distal radius fracture surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2017</b> , 12, 77-90	3.9	3
366	Robust Multi-scale Anatomical Landmark Detection in Incomplete 3D-CT Data. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 194-202	0.9	12
365	Unsupervised Learning for Robust Respiratory Signal Estimation From X-Ray Fluoroscopy. <i>IEEE Transactions on Medical Imaging</i> , <b>2017</b> , 36, 865-877	11.7	9
364	Indefinite kernels in least squares support vector machines and principal component analysis. <i>Applied and Computational Harmonic Analysis</i> , <b>2017</b> , 43, 162-172	3.1	21
363	Efficient Medical Image Parsing <b>2017</b> , 55-81		

362	QuaSI: Quantile Sparse Image Prior for Spatio-Temporal Denoising of Retinal OCT Data. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 83-91	0.9	1
361	Real-Time Respiratory Motion Analysis Using 4-D Shape Priors. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2016</b> , 63, 485-95	5	10
360	Electrophysiology Catheter Detection and Reconstruction From Two Views in Fluoroscopic Images. <i>IEEE Transactions on Medical Imaging</i> , <b>2016</b> , 35, 567-79	11.7	19
359	Retinal image quality assessment based on image clarity and content. <i>Journal of Biomedical Optics</i> , <b>2016</b> , 21, 96007	3.5	25
358	AN AUTOMATIC, INTERCAPILLARY AREA-BASED ALGORITHM FOR QUANTIFYING DIABETES-RELATED CAPILLARY DROPOUT USING OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY. <i>Retina</i> , <b>2016</b> , 36 Suppl 1, S93-S101	3.6	61
357	Translating satisfaction determination from health care to the automotive industry. <i>Service Business</i> , <b>2016</b> , 10, 651-685	3.9	7
356	A self-taught artificial agent for multi-physics computational model personalization. <i>Medical Image Analysis</i> , <b>2016</b> , 34, 52-64	15.4	13
355	Marginal Space Deep Learning: Efficient Architecture for Volumetric Image Parsing. <i>IEEE Transactions on Medical Imaging</i> , <b>2016</b> , 35, 1217-1228	11.7	96
354	Robust Multiframe Super-Resolution Employing Iteratively Re-Weighted Minimization. <i>IEEE Transactions on Computational Imaging</i> , <b>2016</b> , 2, 42-58	4.5	58
353	Extended ellipse-line-ellipse trajectory for long-object cone-beam imaging with a mounted C-arm system. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 1829-51	3.8	5
352	Choroidal Neovascularization Analyzed on Ultrahigh-Speed Swept-Source Optical Coherence Tomography Angiography Compared to Spectral-Domain Optical Coherence Tomography Angiography. <i>American Journal of Ophthalmology</i> , <b>2016</b> , 164, 80-8	4.9	118
351	Three-Dimensional Enhanced Imaging of Vitreoretinal Interface in Diabetic Retinopathy Using Swept-Source Optical Coherence Tomography. <i>American Journal of Ophthalmology</i> , <b>2016</b> , 162, 140-149.e19	4.9	25
350	Virtual Hematoxylin and Eosin Transillumination Microscopy Using Epi-Fluorescence Imaging. <i>PLoS ONE</i> , <b>2016</b> , 11, e0159337	3.7	54
349	An Artificial Agent for Anatomical Landmark Detection in Medical Images. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 229-237	0.9	58
348	Contrast-Based 3D/2D Registration of the Left Atrium: Fast versus Consistent. <i>International Journal of Biomedical Imaging</i> , <b>2016</b> , 2016, 7690391	5.2	1
347	Kinect-Based Correction of Overexposure Artifacts in Knee Imaging with C-Arm CT Systems. <i>International Journal of Biomedical Imaging</i> , <b>2016</b> , 2016, 2502486	5.2	13
346	Super-resolved retinal image mosaicing <b>2016</b> ,		3
345	Bridge to real data: Empirical multiple material calibration for learning-based material decomposition <b>2016</b> ,		2

344	Coping with real world data: Artifact reduction and denoising for motion-compensated cardiac C-arm CT. <i>Medical Physics</i> , <b>2016</b> , 43, 883-93	4.4	1
343	A comparison of linear interpolation models for iterative CT reconstruction. <i>Medical Physics</i> , <b>2016</b> , 43, 6455	4.4	12
342	TOWARD QUANTITATIVE OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY: Visualizing Blood Flow Speeds in Ocular Pathology Using Variable Interscan Time Analysis. <i>Retina</i> , <b>2016</b> , 36 Suppl 1, S118-S126	3.6	83
341	3-D printing based production of head and neck masks for radiation therapy using CT volume data: A fully automatic framework <b>2016</b> ,		2
340	Reply. <i>American Journal of Ophthalmology</i> , <b>2016</b> , 165, 208-9	4.9	
339	Design of a portable wide field of view GPU-accelerated multiphoton imaging system for real-time imaging of breast surgical specimens <b>2016</b> ,		2
338	Highly undersampled peripheral Time-of-Flight magnetic resonance angiography: optimized data acquisition and iterative image reconstruction. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2015</b> , 28, 437-46	2.8	13
337	A Gauss-Seidel iteration scheme for reference-free 3-D histological image reconstruction. <i>IEEE Transactions on Medical Imaging</i> , <b>2015</b> , 34, 514-30	11.7	15
336	Mobile markerless augmented reality and its application in forensic medicine. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2015</b> , 10, 573-86	3.9	45
335	A Robust Probabilistic Model for Motion Layer Separation in X-ray Fluoroscopy. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 24, 288-99	0.9	5
334	Epipolar Consistency in Transmission Imaging. <i>IEEE Transactions on Medical Imaging</i> , <b>2015</b> , 34, 2205-19	11.7	30
333	Quantitative optical coherence tomography angiography of vascular abnormalities in the living human eye. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E2395-402	11.5	474
332	Multi-dimensional flow-preserving compressed sensing (MuFloCoS) for time-resolved velocity-encoded phase contrast MRI. <i>IEEE Transactions on Medical Imaging</i> , <b>2015</b> , 34, 400-14	11.7	13
331	Computer-Aided Diagnostics and Pattern Recognition: Automated Glaucoma Detection <b>2015</b> , 93-104		3
330	En face imaging of the choroid in polypoidal choroidal vasculopathy using swept-source optical coherence tomography. <i>American Journal of Ophthalmology</i> , <b>2015</b> , 159, 634-43	4.9	57
329	Axially extended-volume C-arm CT using a reverse helical trajectory in the interventional room. <i>IEEE Transactions on Medical Imaging</i> , <b>2015</b> , 34, 203-15	11.7	6
328	Self-gated MRI motion modeling for respiratory motion compensation in integrated PET/MRI. <i>Medical Image Analysis</i> , <b>2015</b> , 19, 110-20	15.4	86
327	<b>2015</b> ,		3

326	Dynamic detector offsets for field of view extension in C-arm computed tomography with application to weight-bearing imaging. <i>Medical Physics</i> , <b>2015</b> , 42, 2718-29	4.4	4
325	Patient-bounded extrapolation using low-dose priors for volume-of-interest imaging in C-arm CT. <i>Medical Physics</i> , <b>2015</b> , 42, 1787-96	4.4	7
324	Reduction of respiratory motion artifacts for free-breathing whole-heart coronary MRA by weighted iterative reconstruction. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 1885-95	4.4	36
323	Characterization of Choroidal Layers in Normal Aging Eyes Using Enface Swept-Source Optical Coherence Tomography. <i>PLoS ONE</i> , <b>2015</b> , 10, e0133080	3.7	39
322	Optimized viewing angles for cardiac electrophysiology ablation procedures. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2015</b> , 10, 651-64	3.9	2
321	A fully-automatic locally adaptive thresholding algorithm for blood vessel segmentation in 3D digital subtraction angiography. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 2006-9	0.9	4
320	Open-source 4D statistical shape model of the heart for x-ray projection imaging <b>2015</b> ,		6
319	Multi-sensor super-resolution for hybrid range imaging with application to 3-D endoscopy and open surgery. <i>Medical Image Analysis</i> , <b>2015</b> , 24, 220-234	15.4	7
318	Probabilistic sparse matching for robust 3D/3D fusion in minimally invasive surgery. <i>IEEE Transactions on Medical Imaging</i> , <b>2015</b> , 34, 49-60	11.7	8
317	OCT Motion Correction <b>2015</b> , 459-476		2
316	Surrogate-Driven Estimation of Respiratory Motion and Layers in X-Ray Fluoroscopy. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 282-289	0.9	3
315	A Portable Intra-Operative Framework Applied to Distal Radius Fracture Surgery. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 323-330	0.9	1
314	Adaption of 3D Models to 2D X-Ray Images during Endovascular Abdominal Aneurysm Repair. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 339-346	0.9	14
313	Marginal Space Deep Learning: Efficient Architecture for Detection in Volumetric Image Data. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 710-718	0.9	5
312	Vito DA Generic Agent for Multi-physics Model Personalization: Application to Heart Modeling. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 442-449	0.9	1
311	Estimate, Compensate, Iterate: Joint Motion Estimation and Compensation in 4-D Cardiac C-arm Computed Tomography. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 579-586	0.9	6
310	Robust Spectral Denoising for Water-Fat Separation in Magnetic Resonance Imaging. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 667-674	0.9	5
309	Discrete Estimation of Data Completeness for 3D Scan Trajectories with Detector Offset. <i>Informatik Aktuell</i> , <b>2015</b> , 47-52	0.3	6

308	Projection and Reconstruction-Based Noise Filtering Methods in Cone Beam CT. <i>Informatik Aktuell</i> , <b>2015</b> , 59-64	0.3	2
307	Projection-Based Denoising Method for Photon-Counting Energy-Resolving Detectors. <i>Informatik Aktuell</i> , <b>2015</b> , 137-142	0.3	3
306	Respiratory Motion Compensation for C-Arm CT Liver Imaging. <i>Informatik Aktuell</i> , <b>2015</b> , 221-226	0.3	2
305	Robust Identification of Contrasted Frames in Fluoroscopic Images. <i>Informatik Aktuell</i> , <b>2015</b> , 23-28	0.3	3
304	Band-Pass Filter Design by Segmentation in Frequency Domain for Detection of Epithelial Cells in Endomicroscope Images. <i>Informatik Aktuell</i> , <b>2015</b> , 413-418	0.3	4
303	Sharp as a Tack. <i>Informatik Aktuell</i> , <b>2015</b> , 425-430	0.3	3
302	Over-Exposure Correction in CT Using Optimization-Based Multiple Cylinder Fitting. <i>Informatik Aktuell</i> , <b>2015</b> , 35-40	0.3	4
301	Classification of Confocal Laser Endomicroscopic Images of the Oral Cavity to Distinguish Pathological from Healthy Tissue. <i>Informatik Aktuell</i> , <b>2015</b> , 479-485	0.3	5
300	3D Tensor Reconstruction in X-Ray Dark-Field Tomography. <i>Informatik Aktuell</i> , <b>2015</b> , 492-497	0.3	2
299	Truncation Robust C-Arm CT Reconstruction for Dynamic Collimation Acquisition Schemes. <i>Informatik Aktuell</i> , <b>2015</b> , 516-521	0.3	1
298	Portability of TV-Regularized Reconstruction Parameters to Varying Data Sets. <i>Informatik Aktuell</i> , <b>2015</b> , 131-136	0.3	
297	Fast Adaptive Regularization for Perfusion Parameter Computation. <i>Informatik Aktuell</i> , <b>2015</b> , 311-316	0.3	
296	Markov Random Field-Based Layer Separation for Simulated X-Ray Image Sequences. <i>Informatik Aktuell</i> , <b>2015</b> , 329-334	0.3	
295	Interventional heart wall motion analysis with cardiac C-arm CT systems. <i>Physics in Medicine and Biology</i> , <b>2014</b> , 59, 2265-84	3.8	5
294	Towards clinical application of a Laplace operator-based region of interest reconstruction algorithm in C-arm CT. <i>IEEE Transactions on Medical Imaging</i> , <b>2014</b> , 33, 593-606	11.7	7
293	Optical coherence tomography angiography of optic nerve head and parafovea in multiple sclerosis. <i>British Journal of Ophthalmology</i> , <b>2014</b> , 98, 1368-73	5.5	173
292	Continuous short-term irradiance forecasts using sky images. <i>Solar Energy</i> , <b>2014</b> , 110, 303-315	6.8	45
291	On the energetics of conformational switching of molecules at and close to room temperature. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 1609-16	16.4	37

290	Scaling calibration in region of interest reconstruction with the 1D and 2D ATTRACT algorithm. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2014</b> , 9, 345-56	3.9	5
289	En face enhanced-depth swept-source optical coherence tomography features of chronic central serous chorioretinopathy. <i>Ophthalmology</i> , <b>2014</b> , 121, 719-26	7.3	144
288	On the accuracy of a video-based drill-guidance solution for orthopedic and trauma surgery: preliminary results <b>2014</b> ,		2
287	Ultrahigh speed endoscopic swept source optical coherence tomography using a VCSEL light source and micromotor catheter <b>2014</b> ,		3
286	Shading correction for grating-based differential phase contrast X-ray imaging <b>2014</b> ,		3
285	Reproducibility of in-vivo OCT measured three-dimensional human lamina cribrosa microarchitecture. <i>PLoS ONE</i> , <b>2014</b> , 9, e95526	3.7	20
284	Enhanced vitreous imaging in healthy eyes using swept source optical coherence tomography. <i>PLoS ONE</i> , <b>2014</b> , 9, e102950	3.7	40
283	Extended stereopsis evaluation of professional and amateur soccer players and subjects without soccer background. <i>Frontiers in Psychology</i> , <b>2014</b> , 5, 1186	3.4	6
282	Choroid, Haller's, and Sattler's layer thickness in intermediate age-related macular degeneration with and without fellow neovascular eyes <b>2014</b> , 55, 5074-80		44
281	Real-time respiratory signal extraction from X-ray sequences using incremental manifold learning <b>2014</b> ,		5
280	Automatic image-to-model framework for patient-specific electromechanical modeling of the heart <b>2014</b> ,		3
279	Improving accuracy in coronary lumen segmentation via explicit calcium exclusion, learning-based ray detection and surface optimization <b>2014</b> ,		3
278	Automatic planning of atrial fibrillation ablation lines using landmark-constrained nonrigid registration. <i>Journal of Medical Imaging</i> , <b>2014</b> , 1, 015002	2.6	3
277	Depth-encoded all-fiber swept source polarization sensitive OCT. <i>Biomedical Optics Express</i> , <b>2014</b> , 5, 2931-49	3.5	43
276	Quantitative 3D-OCT motion correction with tilt and illumination correction, robust similarity measure and regularization. <i>Biomedical Optics Express</i> , <b>2014</b> , 5, 2591-613	3.5	128
275	Comparative validation of single-shot optical techniques for laparoscopic 3-D surface reconstruction. <i>IEEE Transactions on Medical Imaging</i> , <b>2014</b> , 33, 1913-30	11.7	73
274	Influence of the phase effect on gradient-based and statistics-based focus measures in bright field microscopy. <i>Journal of Microscopy</i> , <b>2014</b> , 254, 65-74	1.9	0
273	Denosing and artefact reduction in dynamic flat detector CT perfusion imaging using high speed acquisition: first experimental and clinical results. <i>Physics in Medicine and Biology</i> , <b>2014</b> , 59, 4505-24	3.8	12

272	Choroidal analysis in healthy eyes using swept-source optical coherence tomography compared to spectral domain optical coherence tomography. <i>American Journal of Ophthalmology</i> , <b>2014</b> , 157, 1272-1281.e1	4.9	84
271	STXM goes 3D: digital reconstruction of focal stacks as novel approach towards confocal soft x-ray microscopy. <i>Ultramicroscopy</i> , <b>2014</b> , 144, 19-25	3.1	26
270	High-resolution 3D whole-heart coronary MRA: a study on the combination of data acquisition in multiple breath-holds and 1D residual respiratory motion compensation. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , <b>2014</b> , 27, 435-43	2.8	23
269	Using the low-pass monogenic signal framework for cell/background classification on multiple cell lines in bright-field microscope images. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2014</b> , 9, 379-86	3.9	1
268	Choroidal Haller's and Sattler's layer thickness measurement using 3-dimensional 1060-nm optical coherence tomography. <i>PLoS ONE</i> , <b>2014</b> , 9, e99690	3.7	48
267	Signal decomposition for X-ray dark-field imaging. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17, 170-7	0.9	5
266	Multi-frame super-resolution with quality self-assessment for retinal fundus videos. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17, 650-7	0.9	9
265	Unsupervised unstained cell detection by SIFT keypoint clustering and self-labeling algorithm. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17, 377-84	0.9	8
264	Robust image-based estimation of cardiac tissue parameters and their uncertainty from noisy data. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17, 9-16	0.9	12
263	Precise Lumen Segmentation in Coronary Computed Tomography Angiography. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 137-147	0.9	7
262	Regression Forest-Based Organ Detection in Normalized PET Images. <i>Informatik Aktuell</i> , <b>2014</b> , 384-389	0.3	
261	Outlier Detection for Multi-Sensor Super-Resolution in Hybrid 3D Endoscopy. <i>Informatik Aktuell</i> , <b>2014</b> , 84-89	0.3	5
260	Temporal Non-Local-Means Filtering in Hybrid 3D Endoscopy. <i>Informatik Aktuell</i> , <b>2014</b> , 90-95	0.3	
259	Investigating Contrast Settlement Using Virtual Angiography. <i>Informatik Aktuell</i> , <b>2014</b> , 282-287	0.3	
258	Fast Interpolation of Dense Motion Fields from Synthetic Phantoms. <i>Informatik Aktuell</i> , <b>2014</b> , 168-173	0.3	1
257	Geometry-Based Optic Disk Tracking in Retinal Fundus Videos. <i>Informatik Aktuell</i> , <b>2014</b> , 120-125	0.3	2
256	On Feature Tracking in X-Ray Images. <i>Informatik Aktuell</i> , <b>2014</b> , 132-137	0.3	2
255	Respiratory Motion Estimation Using a 3D Diaphragm Model. <i>Informatik Aktuell</i> , <b>2014</b> , 240-245	0.3	1



254	Guided Image Super-Resolution: A New Technique for Photogeometric Super-Resolution in Hybrid 3-D Range Imaging. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 227-238	0.9	1
253	Region of Interest Reconstruction from Dose-Minimized Super Short Scan Data. <i>Informatik Aktuell</i> , <b>2014</b> , 48-53	0.3	2
252	Quantification of 99mTc-DPD concentration in the lumbar spine with SPECT/CT. <i>EJNMMI Research</i> , <b>2013</b> , 3, 45	3.6	73
251	Reconstruction method for curvilinear structures from two views <b>2013</b> ,		13
250	Retinal vessel segmentation by improved matched filtering: evaluation on a new high-resolution fundus image database. <i>IET Image Processing</i> , <b>2013</b> , 7, 373-383	1.7	220
249	Chromoendoscopy in magnetically guided capsule endoscopy. <i>BioMedical Engineering OnLine</i> , <b>2013</b> , 12, 52	4.1	6
248	Sparse Depth Sampling for Interventional 2-D/3-D Overlay: Theoretical Error Analysis and Enhanced Motion Estimation. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 86-93	0.9	0
247	Free-breathing whole-heart coronary MRA: motion compensation integrated into 3D cartesian compressed sensing reconstruction. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 575-82	0.9	7
246	Evaluation of interpolation methods for surface-based motion compensated tomographic reconstruction for cardiac angiographic C-arm data. <i>Medical Physics</i> , <b>2013</b> , 40, 031107	4.4	11
245	Multi-dimensional flow-adapted compressed sensing (MDFCS) for time-resolved velocity-encoded Phase Contrast MRA <b>2013</b> ,		2
244	Pulmonary vein isolation supported by MRI-derived 3D-augmented biplane fluoroscopy: a feasibility study and a quantitative analysis of the accuracy of the technique. <i>Journal of Cardiovascular Electrophysiology</i> , <b>2013</b> , 24, 113-20	2.7	8
243	Laparoscopic instrument localization using a 3-D Time-of-Flight/RGB endoscope <b>2013</b> ,		11
242	Optic disk localization using fast radial symmetry transform <b>2013</b> ,		4
241	DTI parameters of axonal integrity and demyelination of the optic radiation correlate with glaucoma indices. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , <b>2013</b> , 251, 243-53	3.8	32
240	Glaucoma classification based on visual pathway analysis using diffusion tensor imaging. <i>Magnetic Resonance Imaging</i> , <b>2013</b> , 31, 1081-91	3.3	29
239	Lymph node detection and segmentation in chest CT data using discriminative learning and a spatial prior. <i>Medical Image Analysis</i> , <b>2013</b> , 17, 254-70	15.4	40
238	Handheld ultrahigh speed swept source optical coherence tomography instrument using a MEMS scanning mirror. <i>Biomedical Optics Express</i> , <b>2013</b> , 5, 293-311	3.5	126
237	Ultrahigh speed endoscopic optical coherence tomography using micro-motor imaging catheter and VCSEL technology <b>2013</b> ,		1

236	Rapid freehand MR-guided percutaneous needle interventions: an image-based approach to improve workflow and feasibility. <i>Journal of Magnetic Resonance Imaging</i> , <b>2013</b> , 37, 1202-12	5.6	27
235	Automatic no-reference quality assessment for retinal fundus images using vessel segmentation <b>2013</b> ,		70
234	Prospective optical motion correction for 3D time-of-flight angiography. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 69, 1623-33	4.4	6
233	Real-Time RGB-D Mapping and 3-D Modeling on the GPU Using the Random Ball Cover <b>2013</b> , 27-48		2
232	4D dynamic imaging of the eye using ultrahigh speed SS-OCT <b>2013</b> ,		2
231	Truncation correction for VOI C-arm CT using scattered radiation <b>2013</b> ,		2
230	Reconstruction from truncated projections in cone-beam CT using an efficient 1D filtering <b>2013</b> ,		5
229	Fast iterative beam hardening correction based on frequency splitting in computed tomography <b>2013</b> ,		5
228	Cryo-balloon catheter localization in fluoroscopic images <b>2013</b> ,		3
227	Percutaneous punctures with MR imaging guidance: comparison between MR imaging-enhanced fluoroscopic guidance and real-time MR Imaging guidance. <i>Radiology</i> , <b>2013</b> , 266, 912-9	20.5	14
226	Ultrahigh speed endoscopic optical coherence tomography using micromotor imaging catheter and VCSEL technology. <i>Biomedical Optics Express</i> , <b>2013</b> , 4, 1119-32	3.5	92
225	Automated lamina cribrosa microstructural segmentation in optical coherence tomography scans of healthy and glaucomatous eyes. <i>Biomedical Optics Express</i> , <b>2013</b> , 4, 2596-608	3.5	45
224	Swept source optical coherence microscopy using a 1310 nm VCSEL light source. <i>Optics Express</i> , <b>2013</b> , 21, 18021-33	3.3	34
223	In vivo imaging of the rodent eye with swept source/Fourier domain OCT. <i>Biomedical Optics Express</i> , <b>2013</b> , 4, 351-63	3.5	20
222	Respiratory Motion Compensation Using Diaphragm Tracking for Cone-Beam C-Arm CT: A Simulation and a Phantom Study. <i>International Journal of Biomedical Imaging</i> , <b>2013</b> , 2013, 520540	5.2	9
221	Dynamic iterative reconstruction for interventional 4-D C-arm CT perfusion imaging. <i>IEEE Transactions on Medical Imaging</i> , <b>2013</b> , 32, 1336-48	11.7	28
220	Dose reduction achieved by dynamically collimating the redundant rays in fan-beam and cone-beam CT <b>2013</b> ,		1
219	A realistic digital phantom for perfusion C-arm CT based on MRI data <b>2013</b> ,		1

218	Joint surface reconstruction and 4D deformation estimation from sparse data and prior knowledge for marker-less Respiratory motion tracking. <i>Medical Physics</i> , <b>2013</b> , 40, 091703	4.4	4
217	Automatic Cell Detection in Bright-Field Microscope Images Using SIFT, Random Forests, and Hierarchical Clustering. <i>IEEE Transactions on Medical Imaging</i> , <b>2013</b> , 32, 2274-86	11.7	42
216	Semi-automatic catheter model generation using biplane x-ray images <b>2013</b> ,		1
215	Edge-preserving bilateral filtering for images containing dense objects in CT <b>2013</b> ,		1
214	Pushing the limits for medical image reconstruction on recent standard multicore processors. <i>International Journal of High Performance Computing Applications</i> , <b>2013</b> , 27, 162-177	1.8	16
213	CONRAD--a software framework for cone-beam imaging in radiology. <i>Medical Physics</i> , <b>2013</b> , 40, 111914	4.4	87
212	In vivo lamina cribrosa micro-architecture in healthy and glaucomatous eyes as assessed by optical coherence tomography <b>2013</b> , 54, 8270-4		72
211	Morphological features of the porcine lacrimal gland and its compatibility for human lacrimal gland xenografting. <i>PLoS ONE</i> , <b>2013</b> , 8, e74046	3.7	13
210	Unbiased and mobile gait analysis detects motor impairment in Parkinson's disease. <i>PLoS ONE</i> , <b>2013</b> , 8, e56956	3.7	135
209	ToF/RGB Sensor Fusion for 3-D Endoscopy. <i>Current Medical Imaging</i> , <b>2013</b> , 9, 113-119	1.2	7
208	Depth-Layer-Based Patient Motion Compensation for the Overlay of 3D Volumes onto X-Ray Sequences. <i>Informatik Aktuell</i> , <b>2013</b> , 128-133	0.3	6
207	Using the Monogenic Signal for Cell-Background Classification in Bright-Field Microscope Images. <i>Informatik Aktuell</i> , <b>2013</b> , 170-174	0.3	4
206	Structure-Enhanced Visualization for Manual Registration in Fluoroscopy. <i>Informatik Aktuell</i> , <b>2013</b> , 241-246		2
205	Convolution-Based Truncation Correction for C-Arm CT Using Scattered Radiation. <i>Informatik Aktuell</i> , <b>2013</b> , 338-343	0.3	1
204	GPU-Accelerated Time-of-Flight Super-Resolution for Image-Guided Surgery. <i>Informatik Aktuell</i> , <b>2013</b> , 21-26	0.3	5
203	Representation Learning for Cloud Classification. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 395-404	0.9	2
202	Self-gated radial MRI for respiratory motion compensation on hybrid PET/MR systems. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 17-24	0.9	21
201	Real-time respiratory motion analysis using manifold ray casting of volumetrically fused multi-view range imaging. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 116-23	0.9	2

200	ToF meets RGB: novel multi-sensor super-resolution for hybrid 3-D endoscopy. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 139-46	0.9	9
199	Real-Time Range Imaging in Health Care: A Survey. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 228-254	0.9	26
198	Low-rank and sparse matrix decomposition for compressed sensing reconstruction of magnetic resonance 4D phase contrast blood flow imaging (loSDeCoS 4D-PCI). <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 558-65	0.9	4
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196	Calibration of a Camera-Based Guidance Solution for Orthopedic and Trauma Surgery. <i>Informatik Aktuell</i> , <b>2013</b> , 27-32	0.3	
195	Scaling Calibration in the ATRACT Algorithm. <i>Informatik Aktuell</i> , <b>2013</b> , 104-109	0.3	1
194	Robust model-based 3d/3D fusion using sparse matching for minimally invasive surgery. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 171-8	0.9	1
193	Evaluation of state-of-the-art hardware architectures for fast cone-beam CT reconstruction. <i>Parallel Computing</i> , <b>2012</b> , 38, 111-124	1	18
192	Constrained registration for motion compensation in atrial fibrillation ablation procedures. <i>IEEE Transactions on Medical Imaging</i> , <b>2012</b> , 31, 870-81	11.7	20
191	Interventional 4-D C-arm CT perfusion imaging using interleaved scanning and partial reconstruction interpolation. <i>IEEE Transactions on Medical Imaging</i> , <b>2012</b> , 31, 892-906	11.7	24
190	Accurate image reconstruction using real C-arm data from a Circle-plus-arc trajectory. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2012</b> , 7, 73-86	3.9	1
189	Ray contribution masks for structure adaptive sinogram filtering. <i>IEEE Transactions on Medical Imaging</i> , <b>2012</b> , 31, 1228-39	11.7	40
188	Markerless estimation of patient orientation, posture and pose using range and pressure imaging : for automatic patient setup and scanner initialization in tomographic imaging. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2012</b> , 7, 921-9	3.9	15
187	Efficient 2D filtering for cone-beam VOI reconstruction <b>2012</b> ,		4
186	Spatial-temporal total variation regularization (STTVR) for 4D-CT reconstruction <b>2012</b> ,		19
185	A workflow for patient-individualized virtual angiogram generation based on CFD simulation. <i>Computational and Mathematical Methods in Medicine</i> , <b>2012</b> , 2012, 306765	2.8	77
184	Hybrid prospective and retrospective head motion correction to mitigate cross-calibration errors. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 67, 1237-51	4.4	46
183	Fast simulation of x-ray projections of spline-based surfaces using an append buffer. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 6193-210	3.8	22

182	Simulation tools for two-dimensional experiments in x-ray computed tomography using the FORBILD head phantom. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, N237-52	3.8	45
181	Wavelet denoising of multiframe optical coherence tomography data. <i>Biomedical Optics Express</i> , <b>2012</b> , 3, 572-89	3.5	118
180	Motion correction in optical coherence tomography volumes on a per A-scan basis using orthogonal scan patterns. <i>Biomedical Optics Express</i> , <b>2012</b> , 3, 1182-99	3.5	288
179	Fast dynamic reconstruction algorithm with joint bilateral filtering for perfusion C-arm CT <b>2012</b> ,		3
178	4-D motion field estimation by Combined Multiple Heart Phase Registration (CMHPR) for cardiac C-arm data <b>2012</b> ,		1
177	Virtual angiography using CFD simulations based on patient-specific parameter optimization <b>2012</b> ,		5
176	NON-RIGID REGISTRATION GUIDED BY LANDMARKS AND LEARNING <b>2012</b> , 2012, 704-707	1.5	
175	Split-spectrum amplitude-decorrelation angiography with optical coherence tomography. <i>Optics Express</i> , <b>2012</b> , 20, 4710-25	3.3	1250
174	Model-based fusion of CT and non-contrasted 3D C-arm CT: Application to transcatheter valve therapies <b>2012</b> ,		1
173	Real-time circumferential mapping catheter tracking for motion compensation in atrial fibrillation ablation procedures <b>2012</b> ,		3
172	Cryo-balloon catheter position planning using AFiT <b>2012</b> ,		2
171	Navigation for fluoroscopy-guided cryo-balloon ablation procedures of atrial fibrillation <b>2012</b> ,		1
170	Computer-aided evaluation of the anatomical accuracy of hybrid SPECT/spiral-CT imaging of lesions localized in the neck and upper abdomen. <i>Nuclear Medicine Communications</i> , <b>2012</b> , 33, 1153-9	1.6	4
169	In vitro evaluation of the imaging accuracy of C-arm conebeam CT in cerebral perfusion imaging. <i>Medical Physics</i> , <b>2012</b> , 39, 6652-9	4.4	3
168	Joint ToF Image Denoising and Registration with a CT Surface in Radiation Therapy. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 98-109	0.9	10
167	Quality-Guided Denoising for Low-Cost Fundus Imaging. <i>Informatik Aktuell</i> , <b>2012</b> , 292-297	0.3	4
166	Motion Estimation Model for Cardiac and Respiratory Motion Compensation. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 94-103	0.9	1
165	Marker-less reconstruction of dense 4-D surface motion fields using active laser triangulation for respiratory motion management. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 15, 414-21	0.9	6

164	Real-time motion compensated patient positioning and non-rigid deformation estimation using 4-D shape priors. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 15, 576-83	0.9	7
163	Semi-automatic catheter reconstruction from two views. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 15, 584-91	0.9	19
162	Photometric Estimation of 3D Surface Motion Fields for Respiration Management. <i>Informatik Aktuell</i> , <b>2012</b> , 105-110	0.3	2
161	ToF/RGB Sensor Fusion for Augmented 3D Endoscopy using a Fully Automatic Calibration Scheme. <i>Informatik Aktuell</i> , <b>2012</b> , 111-116	0.3	1
160	Tele-glaucoma: Experiences and Perspectives <b>2012</b> , 67-75		
159	Prior-based automatic segmentation of the carotid artery lumen in TOF MRA (PASCAL). <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 15, 511-8	0.9	1
158	Multi-modal surface registration for markerless initial patient setup in radiation therapy using microsoft's Kinect sensor <b>2011</b> ,		13
157	Real-time preprocessing for dense 3-D range imaging on the GPU: Defect interpolation, bilateral temporal averaging and guided filtering <b>2011</b> ,		21
156	Glaucoma Classification Based on Histogram Analysis of Diffusion Tensor Imaging Measures in the Optic Radiation. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 529-536	0.9	1
155	A discriminative model-constrained EM approach to 3D MRI brain tissue classification and intensity non-uniformity correction. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 3269-300	3.8	16
154	Biometric and mobile gait analysis for early diagnosis and therapy monitoring in Parkinson's disease. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 868-71	0.9	62
153	Total retinal blood flow measurement with ultrahigh speed swept source/Fourier domain OCT. <i>Biomedical Optics Express</i> , <b>2011</b> , 2, 1539-52	3.5	141
152	Piezoelectric-transducer-based miniature catheter for ultrahigh-speed endoscopic optical coherence tomography. <i>Biomedical Optics Express</i> , <b>2011</b> , 2, 2438-48	3.5	25
151	A model for filtered backprojection reconstruction artifacts due to time-varying attenuation values in perfusion C-arm CT. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 3701-17	3.8	8
150	Piezoelectric transducer based miniature catheter for ultrahigh speed endoscopic optical coherence tomography <b>2011</b> ,		1
149	Retinal blood flow measurement with ultrahigh-speed swept-source / Fourier domain optical coherence tomography <b>2011</b> ,		1
148	Self-encoded marker for optical prospective head motion correction in MRI. <i>Medical Image Analysis</i> , <b>2011</b> , 15, 708-19	15.4	40
147	A framework for voxel-based morphometric analysis of the optic radiation using diffusion tensor imaging in glaucoma. <i>Magnetic Resonance Imaging</i> , <b>2011</b> , 29, 1076-87	3.3	21

146	A probabilistic model for automatic segmentation of the esophagus in 3-D CT scans. <i>IEEE Transactions on Medical Imaging</i> , <b>2011</b> , 30, 1252-64	11.7	19
145	Absolute quantification in SPECT. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2011</b> , 38 Suppl 1, S69-77	8.8	124
144	Comparison and classification of 3D objects surface point clouds on the example of feet. <i>Machine Vision and Applications</i> , <b>2011</b> , 22, 235-243	2.8	1
143	Real-time optical motion correction for diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 66, 366-78	4.4	94
142	Comparing performance of many-core CPUs and GPUs for static and motion compensated reconstruction of C-arm CT data. <i>Medical Physics</i> , <b>2011</b> , 38, 468-73	4.4	9
141	<b>2011</b> ,		15
140	Comparing axial CT slices in quantized N-dimensional SURF descriptor space to estimate the visible body region. <i>Computerized Medical Imaging and Graphics</i> , <b>2011</b> , 35, 227-36	7.6	9
139	Viszeralmedizin 2025 - Veränderungen durch die Informationswissenschaften. <i>Endoskopie Heute</i> , <b>2011</b> , 24, 20-24		
138	4D Photogeometric face recognition with time-of-flight sensors <b>2011</b> ,		4
137	Tetrahedral vs. polyhedral mesh size evaluation on flow velocity and wall shear stress for cerebral hemodynamic simulation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2011</b> , 14, 9-22 <sup>2.1</sup>	2.1	83
136	Three-dimensional anisotropic adaptive filtering of projection data for noise reduction in cone beam CT. <i>Medical Physics</i> , <b>2011</b> , 38, 5896-909	4.4	20
135	Automatic measurement of contrast bolus distribution in carotid arteries using a C-arm angiography system to support interventional perfusion imaging <b>2011</b> ,		4
134	Motion compensation by registration-based catheter tracking <b>2011</b> ,		2
133	First steps towards initial registration for electrophysiology procedures <b>2011</b> ,		4
132	4D motion animation of coronary arteries from rotational angiography <b>2011</b> ,		1
131	Learning distance function for regression-based 4D pulmonary trunk model reconstruction estimated from sparse MRI data <b>2011</b> ,		2
130	Deconvolution-Based CT and MR Brain Perfusion Measurement: Theoretical Model Revisited and Practical Implementation Details. <i>International Journal of Biomedical Imaging</i> , <b>2011</b> , 2011, 467563	5.2	92
129	Automatic Multi-modal ToF/CT Organ Surface Registration. <i>Informatik Aktuell</i> , <b>2011</b> , 154-158	0.3	4

128	Automatic Patient Pose Estimation Using Pressure Sensing Mattresses. <i>Informatik Aktuell</i> , <b>2011</b> , 409-413	0.3	6
127	Patient-Specific Model of Left Heart Anatomy, Dynamics and Hemodynamics from 4D TEE: A First Validation Study. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 341-349	0.9	5
126	Combined cardiac and respiratory motion compensation for atrial fibrillation ablation procedures. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 14, 540-7	0.9	5
125	Automatic extraction of 3D dynamic left ventricle model from 2D rotational angiocardioqram. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 14, 471-8	0.9	6
124	Robust physically-constrained modeling of the mitral valve and subvalvular apparatus. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 14, 504-11	0.9	10
123	Segmentation Based Features for Lymph Node Detection from 3-D Chest CT. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 91-99	0.9	2
122	Automatic Segmentation of the Optic Radiation Using DTI in Healthy Subjects and Patients with Glaucoma. <i>Computational Methods in Applied Sciences (Springer)</i> , <b>2011</b> , 1-15	0.4	1
121	Accurate Regression-Based 4D Mitral Valve Surface Reconstruction from 2D+t MRI Slices. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 282-290	0.9	
120	Constrained 2-D/3-D Registration for Motion Compensation in AFib Ablation Procedures. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 133-144	0.9	
119	High Performance GPU-Based Preprocessing for Time-of-Flight Imaging in Medical Applications. <i>Informatik Aktuell</i> , <b>2011</b> , 324-328	0.3	1
118	Total Variation Regularization Method for 3D Rotational Coronary Angiography. <i>Informatik Aktuell</i> , <b>2011</b> , 434-438	0.3	1
117	3D model-based catheter tracking for motion compensation in EP procedures <b>2010</b> ,		3
116	Spatial orientation in transluminal surgery. <i>Minimally Invasive Therapy and Allied Technologies</i> , <b>2010</b> , 19, 262-73	2.1	5
115	A filter model to analyze reconstruction artifacts in perfusion C-arm CT <b>2010</b> ,		1
114	Self-encoded marker for optical prospective head motion correction in MRI. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 13, 259-66	0.9	14
113	Learning discriminative distance functions for valve retrieval and improved decision support in valvular heart disease <b>2010</b> ,		2
112	Measurement of kidney perfusion by magnetic resonance imaging: comparison of MRI with arterial spin labeling to para-aminohippuric acid plasma clearance in male subjects with metabolic syndrome. <i>Nephrology Dialysis Transplantation</i> , <b>2010</b> , 25, 1126-33	4.3	62
111	CAVAREV--an open platform for evaluating 3D and 4D cardiac vasculature reconstruction. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, 2905-15	3.8	20



110	Lymph node detection in 3-D chest CT using a spatial prior probability <b>2010</b> ,		13
109	Model-based respiratory motion compensation for image-guided cardiac interventions <b>2010</b> ,		9
108	Retinal Nerve Fiber Layer Segmentation on FD-OCT Scans of Normal Subjects and Glaucoma Patients. <i>Biomedical Optics Express</i> , <b>2010</b> , 1, 1358-1383	3.5	95
107	Quantitative accuracy of clinical 99mTc SPECT/CT using ordered-subset expectation maximization with 3-dimensional resolution recovery, attenuation, and scatter correction. <i>Journal of Nuclear Medicine</i> , <b>2010</b> , 51, 921-8	8.9	165
106	Automatic Detection and Segmentation of Focal Liver Lesions in Contrast Enhanced CT Images <b>2010</b> ,		22
105	Non-convex polyhedral volume of interest selection. <i>Computerized Medical Imaging and Graphics</i> , <b>2010</b> , 34, 105-13	7.6	8
104	Glaucoma risk index: automated glaucoma detection from color fundus images. <i>Medical Image Analysis</i> , <b>2010</b> , 14, 471-81	15.4	206
103	Interventional 4D motion estimation and reconstruction of cardiac vasculature without motion periodicity assumption. <i>Medical Image Analysis</i> , <b>2010</b> , 14, 687-94	15.4	24
102	Automated quality assessment of retinal fundus photos. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2010</b> , 5, 557-64	3.9	61
101	Automatic parameter selection for multimodal image registration. <i>IEEE Transactions on Medical Imaging</i> , <b>2010</b> , 29, 1140-55	11.7	19
100	Respiratory motion compensation by model-based catheter tracking during EP procedures. <i>Medical Image Analysis</i> , <b>2010</b> , 14, 695-706	15.4	55
99	Model-Based Registration for Motion Compensation during EP Ablation Procedures. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 234-245	0.9	8
98	Cross-modality assessment and planning for pulmonary trunk treatment using CT and MRI imaging. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 13, 460-7	0.9	2
97	Value-based noise reduction for low-dose dual-energy computed tomography. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 13, 547-54	0.9	3
96	Patient-Specific Modeling of the Heart: Applications to Cardiovascular Disease Management. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 14-24	0.9	3
95	Catheter Tracking: Filter-Based vs. Learning-Based. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 293-302	0.9	6
94	Computational Decision Support for Percutaneous Aortic Valve Implantation. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 247-256	0.9	1
93	Model-based esophagus segmentation from CT scans using a spatial probability map. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 13, 95-102	0.9	3

92	ECG-gated interventional cardiac reconstruction for non-periodic motion. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 13, 151-8	0.9	3
91	Technical note: RabbitCT--an open platform for benchmarking 3D cone-beam reconstruction algorithms. <i>Medical Physics</i> , <b>2009</b> , 36, 3940-4	4.4	28
90	High resolution iterative CT reconstruction using graphics hardware <b>2009</b> ,		5
89	Tetrahedral and polyhedral mesh evaluation for cerebral hemodynamic simulation--a comparison. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 2787-90	0.9	7
88	Application of automatic speech recognition to quantitative assessment of tracheoesophageal speech with different signal quality. <i>Folia Phoniatrica Et Logopaedica</i> , <b>2009</b> , 61, 12-7	1.5	7
87	Model-driven physiological assessment of the mitral valve from 4D TEE <b>2009</b> ,		5
86	Towards real-time guidewire detection and tracking in the field of neuroradiology <b>2009</b> ,		5
85	Time-of-Flight sensor for patient positioning <b>2009</b> ,		11
84	GPU-accelerated SART reconstruction using the CUDA programming environment <b>2009</b> ,		16
83	Nonrigid registration of joint histograms for intensity standardization in magnetic resonance imaging. <i>IEEE Transactions on Medical Imaging</i> , <b>2009</b> , 28, 137-50	11.7	47
82	Comparison and evaluation of methods for liver segmentation from CT datasets. <i>IEEE Transactions on Medical Imaging</i> , <b>2009</b> , 28, 1251-65	11.7	650
81	Cardiac C-arm CT: a unified framework for motion estimation and dynamic CT. <i>IEEE Transactions on Medical Imaging</i> , <b>2009</b> , 28, 1836-49	11.7	47
80	Segmentation of kidneys using a new active shape model generation technique based on non-rigid image registration. <i>Computerized Medical Imaging and Graphics</i> , <b>2009</b> , 33, 29-39	7.6	53
79	Technical feasibility of 2D-3D coregistration for visualization of self-expandable microstents to facilitate coil embolization of broad-based intracranial aneurysms: an in vitro study. <i>Neuroradiology</i> , <b>2009</b> , 51, 851-4	3.2	7
78	Embedded surface classification in digital sports. <i>Pattern Recognition Letters</i> , <b>2009</b> , 30, 1448-1456	4.7	13
77	Acquisition-related motion compensation for digital subtraction angiography. <i>Computerized Medical Imaging and Graphics</i> , <b>2009</b> , 33, 256-66	7.6	4
76	Time-of-Flight 3-D endoscopy. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 12, 467-74	0.9	34
75	Local orientation-dependent noise propagation for anisotropic denoising of CT-images <b>2009</b> ,		3

74	Personalized modeling and assessment of the aortic-mitral coupling from 4D TEE and CT. <i>Lecture Notes in Computer Science, 2009, 12, 767-75</i>	0.9	13
73	Clinical evaluation of Endorientation: Gravity related rectification for endoscopic images <b>2009,</b>		3
72	Interventional 4-D motion estimation and reconstruction of cardiac vasculature without motion periodicity assumption. <i>Lecture Notes in Computer Science, 2009, 12, 132-9</i>	0.9	10
71	Personalized pulmonary trunk modeling for intervention planning and valve assessment estimated from CT data. <i>Lecture Notes in Computer Science, 2009, 12, 17-25</i>	0.9	4
70	Fast automatic segmentation of the esophagus from 3D CT data using a probabilistic model. <i>Lecture Notes in Computer Science, 2009, 12, 255-62</i>	0.9	13
69	3-D respiratory motion compensation during EP procedures by image-based 3-D lasso catheter model generation and tracking. <i>Lecture Notes in Computer Science, 2009, 12, 394-401</i>	0.9	25
68	Endoscopic orientation correction. <i>Lecture Notes in Computer Science, 2009, 12, 459-66</i>	0.9	13
67	Inverse C-arm positioning for interventional procedures using real-time body part detection. <i>Lecture Notes in Computer Science, 2009, 12, 549-56</i>	0.9	10
66	A generic probabilistic active shape model for organ segmentation. <i>Lecture Notes in Computer Science, 2009, 12, 26-33</i>	0.9	38
65	Fast and robust 3-D MRI brain structure segmentation. <i>Lecture Notes in Computer Science, 2009, 12, 575-83</i>		10
64	Computer-aided assessment of anomalies in the scoliotic spine in 3-D MRI images. <i>Lecture Notes in Computer Science, 2009, 12, 819-26</i>	0.9	3
63	Surface-Based Respiratory Motion Classification and Verification. <i>Informatik Aktuell, 2009, 257-261</i>	0.3	1
62	Quantification of thyroid volume using 3-D ultrasound imaging. <i>IEEE Transactions on Medical Imaging, 2008, 27, 457-66</i>	11.7	23
61	A factorization approach for cone-beam reconstruction on a circular short-scan. <i>IEEE Transactions on Medical Imaging, 2008, 27, 887-96</i>	11.7	16
60	Wavelet based noise reduction in CT-images using correlation analysis. <i>IEEE Transactions on Medical Imaging, 2008, 27, 1685-703</i>	11.7	98
59	3-D gesture-based scene navigation in medical imaging applications using Time-of-Flight cameras <b>2008,</b>		48
58	Design and implementation of the software architecture for a 3-D reconstruction system in medical imaging <b>2008,</b>		6
57	Implicit active shape model employing boundary classifier <b>2008,</b>		3

56	<b>2008,</b>		9
55	Analytic noise-propagation in indirect fan-beam FBP reconstruction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2008</i> , 2008, 2701-4	0.9	6
54	Analytic noise propagation for anisotropic denoising of CT images <b>2008,</b>		3
53	C-arm CT: Reconstruction of dynamic high contrast objects applied to the coronary sinus <b>2008,</b>		8
52	Truncation correction for oblique filtering lines. <i>Medical Physics</i> , <b>2008</b> , 35, 5910-20	4.4	8
51	Standardization of intensity-values acquired by Time-of-Flight-cameras <b>2008,</b>		10
50	Time-of-flight sensor for respiratory motion gating. <i>Medical Physics</i> , <b>2008</b> , 35, 3090-3	4.4	41
49	The papilla as screening parameter for early diagnosis of glaucoma. <i>Deutsches A&amp;#x0308;rzteblatt International</i> , <b>2008</b> , 105, 583-9	2.5	20
48	Multiple CT-reconstructions for locally adaptive anisotropic wavelet denoising. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2008</b> , 2, 255-264	3.9	7
47	Robust real-time 3D respiratory motion detection using time-of-flight cameras. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2008</b> , 3, 427-431	3.9	51
46	Neurochemical dementia diagnostics: assays in CSF and blood. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , <b>2008</b> , 258 Suppl 5, 44-9	5.1	8
45	Softwareentwicklung in der Medizintechnik am Beispiel der medizinischen Bildverarbeitung. <i>Computer Science - Research and Development</i> , <b>2008</b> , 22, 161-171		
44	Computer-aided evaluation of anatomical accuracy of image fusion between X-ray CT and SPECT. <i>Computerized Medical Imaging and Graphics</i> , <b>2008</b> , 32, 388-95	7.6	8
43	Edge-Preserving Denoising for Segmentation in CT-images. <i>Informatik Aktuell</i> , <b>2008</b> , 257-261	0.3	1
42	A discriminative model-constrained graph cuts approach to fully automated pediatric brain tumor segmentation in 3-D MRI. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 11, 67-75	0.9	42
41	Estimation accuracy of ejection fraction in gated cardiac SPECT/CT imaging using iterative reconstruction with 3D resolution recovery in rapid acquisition Protocols <b>2007,</b>		2
40	Effects of Preprocessing Eye Fundus Images on Appearance Based Glaucoma Classification. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 165-172	0.9	16
39	Fast GPU-Based CT Reconstruction using the Common Unified Device Architecture (CUDA) <b>2007,</b>		55

38	Automatic evaluation of prosodic features of tracheoesophageal substitute voice. <i>European Archives of Oto-Rhino-Laryngology</i> , <b>2007</b> , 264, 1315-21	3.5	17
37	Comparison of performance between rigid and non-rigid software registering CT to FDG-PET. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2007</b> , 2, 183-190	3.9	4
36	Semi-automatic level-set based segmentation and stenosis quantification of the internal carotid artery in 3D CTA data sets. <i>Medical Image Analysis</i> , <b>2007</b> , 11, 21-34	15.4	44
35	A new scheme for view-dependent data differentiation in fan-beam and cone-beam computed tomography. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 5393-414	3.8	15
34	Evaluation of three analytical methods for reconstruction from cone-beam data on a short circular scan <b>2007</b> ,		1
33	Geometric calibration of the circle-plus-arc trajectory. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 6943-60	3.8	14
32	Separate CT-reconstruction for 3D wavelet based noise reduction using correlation analysis <b>2007</b> ,		1
31	Fan-beam filtered-backprojection reconstruction without backprojection weight. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 3227-40	3.8	21
30	Implementation of the FDK algorithm for cone-beam CT on the cell broadband engine architecture <b>2007</b> , 6510, 1666		7
29	Flat panel detector angiographic CT for stent-assisted coil embolization of broad-based cerebral aneurysms. <i>American Journal of Neuroradiology</i> , <b>2007</b> , 28, 1902-8	4.4	77
28	Mumford-Shah model for one-to-one edge matching. <i>IEEE Transactions on Image Processing</i> , <b>2007</b> , 16, 2720-32	8.7	16
27	Separate CT-Reconstruction for Orientation and Position Adaptive Wavelet Denoising. <i>Informatik Aktuell</i> , <b>2007</b> , 232-236	0.3	3
26	Classifying Glaucoma with Image-Based Features from Fundus Photographs <b>2007</b> , 355-364		33
25	Registration of cardiac SPECT/CT data through weighted intensity co-occurrence priors <b>2007</b> , 10, 725-33		6
24	Cone-Beam Tomography with Linearly Distorted Source Trajectories <b>2006</b> ,		1
23	Cone-beam Tomography from Short-Scan Circle-plus-Arc Data Measured on a C-arm System <b>2006</b> ,		3
22	Quantifying the Effects of Acquisition Parameters in Cardiac SPECT Imaging and Comparison with Visual Observers <b>2006</b> ,		3
21	Isotropic reconstruction of SPECT data using OSEM3D: correlation with CT. <i>Academic Radiology</i> , <b>2006</b> , 13, 496-502	4.3	45

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19	A variational approach to spatially dependent non-rigid registration <b>2006</b> ,		1
18	A practical salient region feature based 3D multi-modality registration method for medical images <b>2006</b> ,		4
17	Motion compensation in digital subtraction angiography using graphics hardware. <i>Computerized Medical Imaging and Graphics</i> , <b>2006</b> , 30, 279-89	7.6	11
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15	Learning based non-rigid multi-modal image registration using Kullback-Leibler divergence. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 8, 255-62	0.9	31
14	Exact and efficient cone-beam reconstruction algorithm for a short-scan circle combined with various lines <b>2005</b> ,		5
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