

Joachim Hornegger

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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	Split-spectrum amplitude-decorrelation angiography with optical coherence tomography. <i>Optics Express</i> , 2012 , 20, 4710-25	3.3	1250
378	Comparison and evaluation of methods for liver segmentation from CT datasets. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 1251-65	11.7	650
377	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> , 2015 , 112, E2395-402	11.5	474
376	Motion correction in optical coherence tomography volumes on a per A-scan basis using orthogonal scan patterns. <i>Biomedical Optics Express</i> , 2012 , 3, 1182-99	3.5	288
375	Retinal vessel segmentation by improved matched filtering: evaluation on a new high-resolution fundus image database. <i>IET Image Processing</i> , 2013 , 7, 373-383	1.7	220
374	Glaucoma risk index: automated glaucoma detection from color fundus images. <i>Medical Image Analysis</i> , 2010 , 14, 471-81	15.4	206
373	Optical coherence tomography angiography of optic nerve head and parafovea in multiple sclerosis. <i>British Journal of Ophthalmology</i> , 2014 , 98, 1368-73	5.5	173
372	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> , 2010 , 51, 921-8	8.9	165
371	En face enhanced-depth swept-source optical coherence tomography features of chronic central serous chorioretinopathy. <i>Ophthalmology</i> , 2014 , 121, 719-26	7.3	144
370	Total retinal blood flow measurement with ultrahigh speed swept source/Fourier domain OCT. <i>Biomedical Optics Express</i> , 2011 , 2, 1539-52	3.5	141
369	Unbiased and mobile gait analysis detects motor impairment in Parkinson's disease. <i>PLoS ONE</i> , 2013 , 8, e56956	3.7	135
368	Quantitative 3D-OCT motion correction with tilt and illumination correction, robust similarity measure and regularization. <i>Biomedical Optics Express</i> , 2014 , 5, 2591-613	3.5	128
367	Handheld ultrahigh speed swept source optical coherence tomography instrument using a MEMS scanning mirror. <i>Biomedical Optics Express</i> , 2013 , 5, 293-311	3.5	126
366	Absolute quantification in SPECT. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2011 , 38 Suppl 1, S69-77	8.8	124
365	Multi-Scale Deep Reinforcement Learning for Real-Time 3D-Landmark Detection in CT Scans. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2019 , 41, 176-189	13.3	122
364	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> , 2016 , 164, 80-8	4.9	118
363	Wavelet denoising of multiframe optical coherence tomography data. <i>Biomedical Optics Express</i> , 2012 , 3, 572-89	3.5	118

362	Wavelet based noise reduction in CT-images using correlation analysis. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 1685-703	11.7	98
361	Marginal Space Deep Learning: Efficient Architecture for Volumetric Image Parsing. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 1217-1228	11.7	96
360	Retinal Nerve Fiber Layer Segmentation on FD-OCT Scans of Normal Subjects and Glaucoma Patients. <i>Biomedical Optics Express</i> , 2010 , 1, 1358-1383	3.5	95
359	Real-time optical motion correction for diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 366-78	4.4	94
358	Ultrahigh speed endoscopic optical coherence tomography using micromotor imaging catheter and VCSEL technology. <i>Biomedical Optics Express</i> , 2013 , 4, 1119-32	3.5	92
357	Deconvolution-Based CT and MR Brain Perfusion Measurement: Theoretical Model Revisited and Practical Implementation Details. <i>International Journal of Biomedical Imaging</i> , 2011 , 2011, 467563	5.2	92
356	Discrete tomography by convex-concave regularization and D.C. programming. <i>Discrete Applied Mathematics</i> , 2005 , 151, 229-243	1	88
355	CONRAD--a software framework for cone-beam imaging in radiology. <i>Medical Physics</i> , 2013 , 40, 111914	4.4	87
354	Self-gated MRI motion modeling for respiratory motion compensation in integrated PET/MRI. <i>Medical Image Analysis</i> , 2015 , 19, 110-20	15.4	86
353	Choroidal analysis in healthy eyes using swept-source optical coherence tomography compared to spectral domain optical coherence tomography. <i>American Journal of Ophthalmology</i> , 2014 , 157, 1272-1281.e1	4.9	84
352	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> , 2011 , 14, 9-22	2.1	83
351	TOWARD QUANTITATIVE OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY: Visualizing Blood Flow Speeds in Ocular Pathology Using Variable Interscan Time Analysis. <i>Retina</i> , 2016 , 36 Suppl 1, S118-S126	3.6	83
350	A workflow for patient-individualized virtual angiogram generation based on CFD simulation. <i>Computational and Mathematical Methods in Medicine</i> , 2012 , 2012, 306765	2.8	77
349	Flat panel detector angiographic CT for stent-assisted coil embolization of broad-based cerebral aneurysms. <i>American Journal of Neuroradiology</i> , 2007 , 28, 1902-8	4.4	77
348	Quantification of 99mTc-DPD concentration in the lumbar spine with SPECT/CT. <i>EJNMMI Research</i> , 2013 , 3, 45	3.6	73
347	Comparative validation of single-shot optical techniques for laparoscopic 3-D surface reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 1913-30	11.7	73
346	In vivo lamina cribrosa micro-architecture in healthy and glaucomatous eyes as assessed by optical coherence tomography 2013 , 54, 8270-4		72
345	Automatic no-reference quality assessment for retinal fundus images using vessel segmentation 2013 ,		70

344	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> , 2011 , 2011, 868-71	0.9	62
343	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> , 2010 , 25, 1126-33	4.3	62
342	AN AUTOMATIC, INTERCAPILLARY AREA-BASED ALGORITHM FOR QUANTIFYING DIABETES-RELATED CAPILLARY DROPOUT USING OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY. <i>Retina</i> , 2016 , 36 Suppl 1, S93-S101	3.6	61
341	Automated quality assessment of retinal fundus photos. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2010 , 5, 557-64	3.9	61
340	Robust Multiframe Super-Resolution Employing Iteratively Re-Weighted Minimization. <i>IEEE Transactions on Computational Imaging</i> , 2016 , 2, 42-58	4.5	58
339	An Artificial Agent for Anatomical Landmark Detection in Medical Images. <i>Lecture Notes in Computer Science</i> , 2016 , 229-237	0.9	58
338	En face imaging of the choroid in polypoidal choroidal vasculopathy using swept-source optical coherence tomography. <i>American Journal of Ophthalmology</i> , 2015 , 159, 634-43	4.9	57
337	Respiratory motion compensation by model-based catheter tracking during EP procedures. <i>Medical Image Analysis</i> , 2010 , 14, 695-706	15.4	55
336	Fast GPU-Based CT Reconstruction using the Common Unified Device Architecture (CUDA) 2007 ,		55
335	Virtual Hematoxylin and Eosin Transillumination Microscopy Using Epi-Fluorescence Imaging. <i>PLoS ONE</i> , 2016 , 11, e0159337	3.7	54
334	Segmentation of kidneys using a new active shape model generation technique based on non-rigid image registration. <i>Computerized Medical Imaging and Graphics</i> , 2009 , 33, 29-39	7.6	53
333	Robust real-time 3D respiratory motion detection using time-of-flight cameras. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2008 , 3, 427-431	3.9	51
332	3-D gesture-based scene navigation in medical imaging applications using Time-of-Flight cameras 2008 ,		48
331	Choroidal Haller's and Sattler's layer thickness measurement using 3-dimensional 1060-nm optical coherence tomography. <i>PLoS ONE</i> , 2014 , 9, e99690	3.7	48
330	Nonrigid registration of joint histograms for intensity standardization in magnetic resonance imaging. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 137-50	11.7	47
329	Cardiac C-arm CT: a unified framework for motion estimation and dynamic CT. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 1836-49	11.7	47
328	Hybrid prospective and retrospective head motion correction to mitigate cross-calibration errors. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 1237-51	4.4	46
327	Mobile markerless augmented reality and its application in forensic medicine. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015 , 10, 573-86	3.9	45

326	Continuous short-term irradiance forecasts using sky images. <i>Solar Energy</i> , 2014 , 110, 303-315	6.8	45
325	Automated lamina cribrosa microstructural segmentation in optical coherence tomography scans of healthy and glaucomatous eyes. <i>Biomedical Optics Express</i> , 2013 , 4, 2596-608	3.5	45
324	Simulation tools for two-dimensional experiments in x-ray computed tomography using the FORBILD head phantom. <i>Physics in Medicine and Biology</i> , 2012 , 57, N237-52	3.8	45
323	Isotropic reconstruction of SPECT data using OSEM3D: correlation with CT. <i>Academic Radiology</i> , 2006 , 13, 496-502	4.3	45
322	Choroid, Haller's, and Sattler's layer thickness in intermediate age-related macular degeneration with and without fellow neovascular eyes 2014 , 55, 5074-80		44
321	Semi-automatic level-set based segmentation and stenosis quantification of the internal carotid artery in 3D CTA data sets. <i>Medical Image Analysis</i> , 2007 , 11, 21-34	15.4	44
320	Depth-encoded all-fiber swept source polarization sensitive OCT. <i>Biomedical Optics Express</i> , 2014 , 5, 2931-49	3.5	43
319	Automatic Cell Detection in Bright-Field Microscope Images Using SIFT, Random Forests, and Hierarchical Clustering. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 2274-86	11.7	42
318	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> , 2008 , 11, 67-75	0.9	42
317	Time-of-flight sensor for respiratory motion gating. <i>Medical Physics</i> , 2008 , 35, 3090-3	4.4	41
316	Lymph node detection and segmentation in chest CT data using discriminative learning and a spatial prior. <i>Medical Image Analysis</i> , 2013 , 17, 254-70	15.4	40
315	Enhanced vitreous imaging in healthy eyes using swept source optical coherence tomography. <i>PLoS ONE</i> , 2014 , 9, e102950	3.7	40
314	Ray contribution masks for structure adaptive sinogram filtering. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 1228-39	11.7	40
313	Self-encoded marker for optical prospective head motion correction in MRI. <i>Medical Image Analysis</i> , 2011 , 15, 708-19	15.4	40
312	Characterization of Choroidal Layers in Normal Aging Eyes Using Enface Swept-Source Optical Coherence Tomography. <i>PLoS ONE</i> , 2015 , 10, e0133080	3.7	39
311	A generic probabilistic active shape model for organ segmentation. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 26-33	0.9	38
310	On the energetics of conformational switching of molecules at and close to room temperature. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1609-16	16.4	37
309	Reduction of respiratory motion artifacts for free-breathing whole-heart coronary MRA by weighted iterative reconstruction. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 1885-95	4.4	36

308	Swept source optical coherence microscopy using a 1310 nm VCSEL light source. <i>Optics Express</i> , 2013 , 21, 18021-33	3.3	34
307	Time-of-Flight 3-D endoscopy. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 467-74	0.9	34
306	Classifying Glaucoma with Image-Based Features from Fundus Photographs 2007 , 355-364		33
305	DTI parameters of axonal integrity and demyelination of the optic radiation correlate with glaucoma indices. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , 2013 , 251, 243-53	3.8	32
304	Multiplanar reconstructions and three-dimensional imaging (computed rotational osteography) of complex fractures by using a C-arm system: initial results. <i>Radiology</i> , 2001 , 221, 843-9	20.5	32
303	Learning based non-rigid multi-modal image registration using Kullback-Leibler divergence. <i>Lecture Notes in Computer Science</i> , 2005 , 8, 255-62	0.9	31
302	Epipolar Consistency in Transmission Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 2205-19	11.7	30
301	Glaucoma classification based on visual pathway analysis using diffusion tensor imaging. <i>Magnetic Resonance Imaging</i> , 2013 , 31, 1081-91	3.3	29
300	Dynamic iterative reconstruction for interventional 4-D C-arm CT perfusion imaging. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 1336-48	11.7	28
299	Technical note: RabbitCT--an open platform for benchmarking 3D cone-beam reconstruction algorithms. <i>Medical Physics</i> , 2009 , 36, 3940-4	4.4	28
298	Rapid freehand MR-guided percutaneous needle interventions: an image-based approach to improve workflow and feasibility. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 37, 1202-12	5.6	27
297	STXM goes 3D: digital reconstruction of focal stacks as novel approach towards confocal soft x-ray microscopy. <i>Ultramicroscopy</i> , 2014 , 144, 19-25	3.1	26
296	Real-Time Range Imaging in Health Care: A Survey. <i>Lecture Notes in Computer Science</i> , 2013 , 228-254	0.9	26
295	Retinal image quality assessment based on image clarity and content. <i>Journal of Biomedical Optics</i> , 2016 , 21, 96007	3.5	25
294	Three-Dimensional Enhanced Imaging of Vitreoretinal Interface in Diabetic Retinopathy Using Swept-Source Optical Coherence Tomography. <i>American Journal of Ophthalmology</i> , 2016 , 162, 140-149.e1	4.9	25
293	Piezoelectric-transducer-based miniature catheter for ultrahigh-speed endoscopic optical coherence tomography. <i>Biomedical Optics Express</i> , 2011 , 2, 2438-48	3.5	25
292	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</i> , 2009 , 12, 394-401	0.9	25
291	Single-breath-hold 3-D CINE imaging of the left ventricle using Cartesian sampling. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018 , 31, 19-31	2.8	24

290	Interventional 4-D C-arm CT perfusion imaging using interleaved scanning and partial reconstruction interpolation. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 892-906	11.7	24
289	Interventional 4D motion estimation and reconstruction of cardiac vasculature without motion periodicity assumption. <i>Medical Image Analysis</i> , 2010 , 14, 687-94	15.4	24
288	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> , 2014 , 27, 435-43	2.8	23
287	Quantification of thyroid volume using 3-D ultrasound imaging. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 457-66	11.7	23
286	Automatic Detection and Segmentation of Focal Liver Lesions in Contrast Enhanced CT Images 2010 ,		22
285	Fast simulation of x-ray projections of spline-based surfaces using an append buffer. <i>Physics in Medicine and Biology</i> , 2012 , 57, 6193-210	3.8	22
284	Indefinite kernels in least squares support vector machines and principal component analysis. <i>Applied and Computational Harmonic Analysis</i> , 2017 , 43, 162-172	3.1	21
283	Real-time preprocessing for dense 3-D range imaging on the GPU: Defect interpolation, bilateral temporal averaging and guided filtering 2011 ,		21
282	A framework for voxel-based morphometric analysis of the optic radiation using diffusion tensor imaging in glaucoma. <i>Magnetic Resonance Imaging</i> , 2011 , 29, 1076-87	3.3	21
281	Fan-beam filtered-backprojection reconstruction without backprojection weight. <i>Physics in Medicine and Biology</i> , 2007 , 52, 3227-40	3.8	21
280	Self-gated radial MRI for respiratory motion compensation on hybrid PET/MR systems. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 17-24	0.9	21
279	Towards intelligent robust detection of anatomical structures in incomplete volumetric data. <i>Medical Image Analysis</i> , 2018 , 48, 203-213	15.4	21
278	Constrained registration for motion compensation in atrial fibrillation ablation procedures. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 870-81	11.7	20
277	Reproducibility of in-vivo OCT measured three-dimensional human lamina cribrosa microarchitecture. <i>PLoS ONE</i> , 2014 , 9, e95526	3.7	20
276	In vivo imaging of the rodent eye with swept source/Fourier domain OCT. <i>Biomedical Optics Express</i> , 2013 , 4, 351-63	3.5	20
275	CAVAREV--an open platform for evaluating 3D and 4D cardiac vasculature reconstruction. <i>Physics in Medicine and Biology</i> , 2010 , 55, 2905-15	3.8	20
274	Three-dimensional anisotropic adaptive filtering of projection data for noise reduction in cone beam CT. <i>Medical Physics</i> , 2011 , 38, 5896-909	4.4	20
273	The papilla as screening parameter for early diagnosis of glaucoma. <i>Deutsches A&#x0308;rztblatt International</i> , 2008 , 105, 583-9	2.5	20

272	Electrophysiology Catheter Detection and Reconstruction From Two Views in Fluoroscopic Images. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 567-79	11.7	19
271	Restoration of missing data in limited angle tomography based on Helgason-Ludwig consistency conditions. <i>Biomedical Physics and Engineering Express</i> , 2017 , 3, 035015	1.5	19
270	Spatial-temporal total variation regularization (STTVR) for 4D-CT reconstruction 2012 ,		19
269	A probabilistic model for automatic segmentation of the esophagus in 3-D CT scans. <i>IEEE Transactions on Medical Imaging</i> , 2011 , 30, 1252-64	11.7	19
268	Automatic parameter selection for multimodal image registration. <i>IEEE Transactions on Medical Imaging</i> , 2010 , 29, 1140-55	11.7	19
267	Semi-automatic catheter reconstruction from two views. <i>Lecture Notes in Computer Science</i> , 2012 , 15, 584-91	0.9	19
266	Evaluation of state-of-the-art hardware architectures for fast cone-beam CT reconstruction. <i>Parallel Computing</i> , 2012 , 38, 111-124	1	18
265	Binary Tomography by Iterating Linear Programs from Noisy Projections. <i>Lecture Notes in Computer Science</i> , 2004 , 38-51	0.9	18
264	A learning-based material decomposition pipeline for multi-energy x-ray imaging. <i>Medical Physics</i> , 2019 , 46, 689-703	4.4	18
263	Dynamic 2-D/3-D Rigid Registration Framework Using Point-To-Plane Correspondence Model. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 1939-1954	11.7	17
262	Automatic evaluation of prosodic features of tracheoesophageal substitute voice. <i>European Archives of Oto-Rhino-Laryngology</i> , 2007 , 264, 1315-21	3.5	17
261	Pushing the limits for medical image reconstruction on recent standard multicore processors. <i>International Journal of High Performance Computing Applications</i> , 2013 , 27, 162-177	1.8	16
260	A discriminative model-constrained EM approach to 3D MRI brain tissue classification and intensity non-uniformity correction. <i>Physics in Medicine and Biology</i> , 2011 , 56, 3269-300	3.8	16
259	GPU-accelerated SART reconstruction using the CUDA programming environment 2009 ,		16
258	A factorization approach for cone-beam reconstruction on a circular short-scan. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 887-96	11.7	16
257	Effects of Preprocessing Eye Fundus Images on Appearance Based Glaucoma Classification. <i>Lecture Notes in Computer Science</i> , 2007 , 165-172	0.9	16
256	Mumford-Shah model for one-to-one edge matching. <i>IEEE Transactions on Image Processing</i> , 2007 , 16, 2720-32	8.7	16
255	A Gauss-Seidel iteration scheme for reference-free 3-D histological image reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 514-30	11.7	15

254	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> , 2012 , 7, 921-9	3.9	15
253	2011 ,		15
252	A new scheme for view-dependent data differentiation in fan-beam and cone-beam computed tomography. <i>Physics in Medicine and Biology</i> , 2007 , 52, 5393-414	3.8	15
251	Appearance-based object recognition using optimal feature transforms. <i>Pattern Recognition</i> , 2000 , 33, 209-224	7.7	15
250	Percutaneous punctures with MR imaging guidance: comparison between MR imaging-enhanced fluoroscopic guidance and real-time MR Imaging guidance. <i>Radiology</i> , 2013 , 266, 912-9	20.5	14
249	Self-encoded marker for optical prospective head motion correction in MRI. <i>Lecture Notes in Computer Science</i> , 2010 , 13, 259-66	0.9	14
248	Geometric calibration of the circle-plus-arc trajectory. <i>Physics in Medicine and Biology</i> , 2007 , 52, 6943-60	3.8	14
247	Adaption of 3D Models to 2D X-Ray Images during Endovascular Abdominal Aneurysm Repair. <i>Lecture Notes in Computer Science</i> , 2015 , 339-346	0.9	14
246	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> , 2015 , 28, 437-46	2.8	13
245	Multi-dimensional flow-preserving compressed sensing (MuFloCoS) for time-resolved velocity-encoded phase contrast MRI. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 400-14	11.7	13
244	A self-taught artificial agent for multi-physics computational model personalization. <i>Medical Image Analysis</i> , 2016 , 34, 52-64	15.4	13
243	Reconstruction method for curvilinear structures from two views 2013 ,		13
242	Morphological features of the porcine lacrimal gland and its compatibility for human lacrimal gland xenografting. <i>PLoS ONE</i> , 2013 , 8, e74046	3.7	13
241	Multi-modal surface registration for markerless initial patient setup in radiation therapy using microsoft's Kinect sensor 2011 ,		13
240	Lymph node detection in 3-D chest CT using a spatial prior probability 2010 ,		13
239	Embedded surface classification in digital sports. <i>Pattern Recognition Letters</i> , 2009 , 30, 1448-1456	4.7	13
238	Personalized modeling and assessment of the aortic-mitral coupling from 4D TEE and CT. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 767-75	0.9	13
237	Fast automatic segmentation of the esophagus from 3D CT data using a probabilistic model. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 255-62	0.9	13

236	Endoscopic orientation correction. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 459-66	0.9	13
235	Kinect-Based Correction of Overexposure Artifacts in Knee Imaging with C-Arm CT Systems. <i>International Journal of Biomedical Imaging</i> , 2016 , 2016, 2502486	5.2	13
234	Robust Multi-scale Anatomical Landmark Detection in Incomplete 3D-CT Data. <i>Lecture Notes in Computer Science</i> , 2017 , 194-202	0.9	12
233	Denoising 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> , 2014 , 59, 4505-24	3.8	12
232	Robust image-based estimation of cardiac tissue parameters and their uncertainty from noisy data. <i>Lecture Notes in Computer Science</i> , 2014 , 17, 9-16	0.9	12
231	A comparison of linear interpolation models for iterative CT reconstruction. <i>Medical Physics</i> , 2016 , 43, 6455	4.4	12
230	Classification With Truncated Distance Kernel. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 2025-2030	10.3	11
229	Evaluation of interpolation methods for surface-based motion compensated tomographic reconstruction for cardiac angiographic C-arm data. <i>Medical Physics</i> , 2013 , 40, 031107	4.4	11
228	Laparoscopic instrument localization using a 3-D Time-of-Flight/RGB endoscope 2013 ,		11
227	Time-of-Flight sensor for patient positioning 2009 ,		11
226	Motion compensation in digital subtraction angiography using graphics hardware. <i>Computerized Medical Imaging and Graphics</i> , 2006 , 30, 279-89	7.6	11
225	Real-Time Respiratory Motion Analysis Using 4-D Shape Priors. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 485-95	5	10
224	Material Decomposition Using Ensemble Learning for Spectral X-ray Imaging. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2018 , 2, 194-204	4.2	10
223	Standardization of intensity-values acquired by Time-of-Flight-cameras 2008 ,		10
222	Interventional 4-D motion estimation and reconstruction of cardiac vasculature without motion periodicity assumption. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 132-9	0.9	10
221	Inverse C-arm positioning for interventional procedures using real-time body part detection. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 549-56	0.9	10
220	Fast and robust 3-D MRI brain structure segmentation. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 575-83		10
219	Robust physically-constrained modeling of the mitral valve and subvalvular apparatus. <i>Lecture Notes in Computer Science</i> , 2011 , 14, 504-11	0.9	10

218	Joint ToF Image Denoising and Registration with a CT Surface in Radiation Therapy. <i>Lecture Notes in Computer Science</i> , 2012 , 98-109	0.9	10
217	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> , 2017 , 30, 189-202	2.8	9
216	Temporal and volumetric denoising via quantile sparse image prior. <i>Medical Image Analysis</i> , 2018 , 48, 131-146	15.4	9
215	Unsupervised Learning for Robust Respiratory Signal Estimation From X-Ray Fluoroscopy. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 865-877	11.7	9
214	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> , 2013 , 2013, 520540	5.2	9
213	Comparing performance of many-core CPUs and GPUs for static and motion compensated reconstruction of C-arm CT data. <i>Medical Physics</i> , 2011 , 38, 468-73	4.4	9
212	Model-based respiratory motion compensation for image-guided cardiac interventions 2010 ,		9
211	Comparing axial CT slices in quantized N-dimensional SURF descriptor space to estimate the visible body region. <i>Computerized Medical Imaging and Graphics</i> , 2011 , 35, 227-36	7.6	9
210	2008 ,		9
209	Multi-frame super-resolution with quality self-assessment for retinal fundus videos. <i>Lecture Notes in Computer Science</i> , 2014 , 17, 650-7	0.9	9
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152	Probabilistic Modeling and Recognition of 3-D Objects. <i>International Journal of Computer Vision</i> , 2000 , 39, 229-251	10.6	5
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126	Over-Exposure Correction in CT Using Optimization-Based Multiple Cylinder Fitting. <i>Informatik Aktuell</i> , 2015 , 35-40	0.3	4
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120	Shading correction for grating-based differential phase contrast X-ray imaging 2014 ,		3
119	2015 ,		3
118	Automatic image-to-model framework for patient-specific electromechanical modeling of the heart 2014 ,		3
117	Improving accuracy in coronary lumen segmentation via explicit calcium exclusion, learning-based ray detection and surface optimization 2014 ,		3
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115	Cryo-balloon catheter localization in fluoroscopic images 2013 ,		3
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113	Local orientation-dependent noise propagation for anisotropic denoising of CT-images 2009 ,		3
112	Fast dynamic reconstruction algorithm with joint bilateral filtering for perfusion C-arm CT 2012 ,		3
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105	Quantifying the Effects of Acquisition Parameters in Cardiac SPECT Imaging and Comparison with Visual Observers 2006 ,		3
104	Unbiased rigid registration using transfer functions 2005 ,		3
103	Surrogate-Driven Estimation of Respiratory Motion and Layers in X-Ray Fluoroscopy. <i>Lecture Notes in Computer Science</i> , 2015 , 282-289	0.9	3
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91	On the accuracy of a video-based drill-guidance solution for orthopedic and trauma surgery: preliminary results 2014 ,		2
90	Multi-dimensional flow-adapted compressed sensing (MDFCS) for time-resolved velocity-encoded Phase Contrast MRA 2013 ,		2
89	Optimized viewing angles for cardiac electrophysiology ablation procedures. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015 , 10, 651-64	3.9	2
88	Real-Time RGB-D Mapping and 3-D Modeling on the GPU Using the Random Ball Cover 2013 , 27-48		2
87	4D dynamic imaging of the eye using ultrahigh speed SS-OCT 2013 ,		2
86	Truncation correction for VOI C-arm CT using scattered radiation 2013 ,		2
85	Learning discriminative distance functions for valve retrieval and improved decision support in valvular heart disease 2010 ,		2
84	Motion compensation by registration-based catheter tracking 2011 ,		2
83	Learning distance function for regression-based 4D pulmonary trunk model reconstruction estimated from sparse MRI data 2011 ,		2
82	Cryo-balloon catheter position planning using AFit 2012 ,		2
81	Estimation accuracy of ejection fraction in gated cardiac SPECT/CT imaging using iterative reconstruction with 3D resolution recovery in rapid acquisition Protocols 2007 ,		2
80	Localization and classification based on projections. <i>Pattern Recognition</i> , 2002 , 35, 1225-1235	7.7	2
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68	On Feature Tracking in X-Ray Images. <i>Informatik Aktuell</i> , 2014 , 132-137	0.3	2
67	Region of Interest Reconstruction from Dose-Minimized Super Short Scan Data. <i>Informatik Aktuell</i> , 2014 , 48-53	0.3	2
66	Bridge to real data: Empirical multiple material calibration for learning-based material decomposition 2016 ,		2
65	3-D printing based production of head and neck masks for radiation therapy using CT volume data: A fully automatic framework 2016 ,		2
64	Design of a portable wide field of view GPU-accelerated multiphoton imaging system for real-time imaging of breast surgical specimens 2016 ,		2
63	Accurate image reconstruction using real C-arm data from a Circle-plus-arc trajectory. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2012 , 7, 73-86	3.9	1
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61	Ultrahigh speed endoscopic optical coherence tomography using micro-motor imaging catheter and VCSEL technology 2013 ,		1
60	Dose reduction achieved by dynamically collimating the redundant rays in fan-beam and cone-beam CT 2013 ,		1
59	A realistic digital phantom for perfusion C-arm CT based on MRI data 2013 ,		1
58	Semi-automatic catheter model generation using biplane x-ray images 2013 ,		1
57	Edge-preserving bilateral filtering for images containing dense objects in CT 2013 ,		1

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54	Retinal blood flow measurement with ultrahigh-speed swept-source / Fourier domain optical coherence tomography 2011 ,		1
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50	4-D motion field estimation by Combined Multiple Heart Phase Registration (CMHPR) for cardiac C-arm data 2012 ,		1
49	Model-based fusion of CT and non-contrasted 3D C-arm CT: Application to transcatheter valve therapies 2012 ,		1
48	Navigation for fluoroscopy-guided cryo-balloon ablation procedures of atrial fibrillation 2012 ,		1
47	A framework for statistical 3-D object recognition. <i>Pattern Recognition Letters</i> , 1997 , 18, 1153-1157	4.7	1
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45	Evaluation of three analytical methods for reconstruction from cone-beam data on a short circular scan 2007 ,		1
44	Separate CT-reconstruction for 3D wavelet based noise reduction using correlation analysis 2007 ,		1
43	A variational approach to spatially dependent non-rigid registration 2006 ,		1
42	Edge-Preserving Denoising for Segmentation in CT-images. <i>Informatik Aktuell</i> , 2008 , 257-261	0.3	1
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31	Total Variation Regularization Method for 3D Rotational Coronary Angiography. <i>Informatik Aktuell</i> , 2011 , 434-438	0.3	1
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16	Efficient Medical Image Parsing 2017 , 55-81		
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14	NON-RIGID REGISTRATION GUIDED BY LANDMARKS AND LEARNING 2012 , 2012, 704-707	1.5	
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10	Fast Adaptive Regularization for Perfusion Parameter Computation. <i>Informatik Aktuell</i> , 2015 , 311-316	0.3	
9	Markov Random Field-Based Layer Separation for Simulated X-Ray Image Sequences. <i>Informatik Aktuell</i> , 2015 , 329-334	0.3	
8	Accurate Regression-Based 4D Mitral Valve Surface Reconstruction from 2D+t MRI Slices. <i>Lecture Notes in Computer Science</i> , 2011 , 282-290	0.9	
7	Constrained 2-D/3-D Registration for Motion Compensation in AFib Ablation Procedures. <i>Lecture Notes in Computer Science</i> , 2011 , 133-144	0.9	
6	Tele-glaucoma: Experiences and Perspectives 2012 , 67-75		
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