

Jean Philippe Thiran

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238
papers

12,056
citations

49
h-index

105
g-index

264
ext. papers

14,385
ext. citations

5.9
avg, IF

6.17
L-index

#	Paper	IF	Citations
238	Fast Global Minimization of the Active Contour/Snake Model. <i>Journal of Mathematical Imaging and Vision</i> , 2007 , 28, 151-167	1.6	613
237	The challenge of mapping the human connectome based on diffusion tractography. <i>Nature Communications</i> , 2017 , 8, 1349	17.4	609
236	Mapping human whole-brain structural networks with diffusion MRI. <i>PLoS ONE</i> , 2007 , 2, e597	3.7	590
235	Understanding diffusion MR imaging techniques: from scalar diffusion-weighted imaging to diffusion tensor imaging and beyond. <i>Radiographics</i> , 2006 , 26 Suppl 1, S205-23	5.4	506
234	White matter maturation reshapes structural connectivity in the late developing human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 19067-72	11.5	486
233	Prognostic accuracy of cerebral blood flow measurement by perfusion computed tomography, at the time of emergency room admission, in acute stroke patients. <i>Annals of Neurology</i> , 2002 , 51, 417-32	9.4	426
232	A surface-based approach to quantify local cortical gyrification. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 161-70	11.7	373
231	Resting-brain functional connectivity predicted by analytic measures of network communication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 833-8	11.5	371
230	Distinct pathways involved in sound recognition and localization: a human fMRI study. <i>NeuroImage</i> , 2001 , 14, 802-16	7.9	331
229	Comparison and validation of tissue modelization and statistical classification methods in T1-weighted MR brain images. <i>IEEE Transactions on Medical Imaging</i> , 2005 , 24, 1548-65	11.7	302
228	Mapping the human connectome at multiple scales with diffusion spectrum MRI. <i>Journal of Neuroscience Methods</i> , 2012 , 203, 386-97	3	283
227	Comparison of admission perfusion computed tomography and qualitative diffusion- and perfusion-weighted magnetic resonance imaging in acute stroke patients. <i>Stroke</i> , 2002 , 33, 2025-31	6.7	283
226	DTI mapping of human brain connectivity: statistical fibre tracking and virtual dissection. <i>NeuroImage</i> , 2003 , 19, 545-54	7.9	261
225	Accelerated Microstructure Imaging via Convex Optimization (AMICO) from diffusion MRI data. <i>NeuroImage</i> , 2015 , 105, 32-44	7.9	225
224	Quantitative assessment of regional cerebral blood flows by perfusion CT studies at low injection rates: a critical review of the underlying theoretical models. <i>European Radiology</i> , 2001 , 11, 1220-30	8	220
223	Structural connectomics in brain diseases. <i>NeuroImage</i> , 2013 , 80, 515-26	7.9	218
222	MR connectomics: Principles and challenges. <i>Journal of Neuroscience Methods</i> , 2010 , 194, 34-45	3	218

221	Multisensory interactions within human primary cortices revealed by BOLD dynamics. <i>Cerebral Cortex</i> , 2007 , 17, 1672-9	5.1	193
220	Generative models of the human connectome. <i>NeuroImage</i> , 2016 , 124, 1054-1064	7.9	180
219	The connectome mapper: an open-source processing pipeline to map connectomes with MRI. <i>PLoS ONE</i> , 2012 , 7, e48121	3.7	180
218	What and where in human audition: selective deficits following focal hemispheric lesions. <i>Experimental Brain Research</i> , 2002 , 147, 8-15	2.3	150
217	COMMIT: Convex optimization modeling for microstructure informed tractography. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 246-57	11.7	138
216	Atlas-based segmentation of pathological MR brain images using a model of lesion growth. <i>IEEE Transactions on Medical Imaging</i> , 2004 , 23, 1301-14	11.7	135
215	Structural Brain Connectivity in School-Age Preterm Infants Provides Evidence for Impaired Networks Relevant for Higher Order Cognitive Skills and Social Cognition. <i>Cerebral Cortex</i> , 2015 , 25, 2793-805	5.1	128
214	Quantitative comparison of reconstruction methods for intra-voxel fiber recovery from diffusion MRI. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 384-99	11.7	119
213	Prediction of asynchronous dimensional emotion ratings from audiovisual and physiological data. <i>Pattern Recognition Letters</i> , 2015 , 66, 22-30	4.7	116
212	Limits to anatomical accuracy of diffusion tractography using modern approaches. <i>NeuroImage</i> , 2019 , 185, 1-11	7.9	110
211	Automatic quality assessment in structural brain magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 365-72	4.4	109
210	Morphological feature extraction for the classification of digital images of cancerous tissues. <i>IEEE Transactions on Biomedical Engineering</i> , 1996 , 43, 1011-20	5	105
209	Localization of electrodes in the subthalamic nucleus on magnetic resonance imaging. <i>Journal of Neurosurgery</i> , 2007 , 106, 36-44	3.2	102
208	A Variational Model for Object Segmentation Using Boundary Information and Shape Prior Driven by the Mumford-Shah Functional. <i>International Journal of Computer Vision</i> , 2006 , 68, 145-162	10.6	102
207	Deviant trajectories of cortical maturation in 22q11.2 deletion syndrome (22q11DS): a cross-sectional and longitudinal study. <i>Schizophrenia Research</i> , 2009 , 115, 182-90	3.6	92
206	Behavioral Priors for Detection and Tracking of Pedestrians in Video Sequences. <i>International Journal of Computer Vision</i> , 2006 , 69, 159-180	10.6	92
205	Structural and resting state functional connectivity of the subthalamic nucleus: identification of motor STN parts and the hyperdirect pathway. <i>PLoS ONE</i> , 2012 , 7, e39061	3.7	86
204	Hand preference and sex shape the architecture of language networks. <i>Human Brain Mapping</i> , 2006 , 27, 828-35	5.9	81

203	Microstructure Informed Tractography: Pitfalls and Open Challenges. <i>Frontiers in Neuroscience</i> , 2016 , 10, 247	5.1	80
202	Multi-scale community organization of the human structural connectome and its relationship with resting-state functional connectivity. <i>Network Science</i> , 2013 , 1, 353-373	2.9	77
201	Scale Invariant Feature Transform on the Sphere: Theory and Applications. <i>International Journal of Computer Vision</i> , 2012 , 98, 217-241	10.6	74
200	How to measure cortical folding from MR images: a step-by-step tutorial to compute local gyrification index. <i>Journal of Visualized Experiments</i> , 2012 , e3417	1.6	73
199	An efficient total variation algorithm for super-resolution in fetal brain MRI with adaptive regularization. <i>NeuroImage</i> , 2015 , 118, 584-97	7.9	67
198	Spread spectrum magnetic resonance imaging. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 586-98	11.7	65
197	White matter fiber tract segmentation in DT-MRI using geometric flows. <i>Medical Image Analysis</i> , 2005 , 9, 223-36	15.4	58
196	Characterizing the connectome in schizophrenia with diffusion spectrum imaging. <i>Human Brain Mapping</i> , 2015 , 36, 354-66	5.9	55
195	Comparing connectomes across subjects and populations at different scales. <i>NeuroImage</i> , 2013 , 80, 416-25	7.5	55
194	Efficient algorithm for level set method preserving distance function. <i>IEEE Transactions on Image Processing</i> , 2012 , 21, 4722-34	8.7	54
193	Congenital heart disease affects local gyrification in 22q11.2 deletion syndrome. <i>Developmental Medicine and Child Neurology</i> , 2009 , 51, 746-53	3.3	54
192	Sound recognition and localization in man: specialized cortical networks and effects of acute circumscribed lesions. <i>Experimental Brain Research</i> , 2003 , 153, 591-604	2.3	53
191	Graph theory reveals dysconnected hubs in 22q11DS and altered nodal efficiency in patients with hallucinations. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 402	3.3	52
190	A level set method for segmentation of the thalamus and its nuclei in DT-MRI. <i>Signal Processing</i> , 2007 , 87, 309-321	4.4	51
189	Soft tissue artifact assessment during treadmill walking in subjects with total knee arthroplasty. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 3131-40	5	47
188	Sparsity Averaging for Compressive Imaging. <i>IEEE Signal Processing Letters</i> , 2013 , 20, 591-594	3.2	46
187	Accelerated T mapping combining parallel MRI and model-based reconstruction: GRAPPATINI. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 48, 359-368	5.6	45
186	Scale space analysis and active contours for omnidirectional images. <i>IEEE Transactions on Image Processing</i> , 2007 , 16, 1888-901	8.7	45

185	Connectivity and tissue microstructural alterations in right and left temporal lobe epilepsy revealed by diffusion spectrum imaging. <i>NeuroImage: Clinical</i> , 2014 , 5, 349-58	5.3	44
184	Sparse regularization for fiber ODF reconstruction: from the suboptimality of ℓ_1 and ℓ_2 priors to ℓ_1 . <i>Medical Image Analysis</i> , 2014 , 18, 820-33	15.4	43
183	Information Theoretic Feature Extraction for Audio-Visual Speech Recognition. <i>IEEE Transactions on Signal Processing</i> , 2009 , 57, 4765-4776	4.8	42
182	Ultrasound measurement of the fibrous cap in symptomatic and asymptomatic atheromatous carotid plaques. <i>Circulation</i> , 2005 , 111, 2776-82	16.7	41
181	AxTract: Toward microstructure informed tractography. <i>Human Brain Mapping</i> , 2017 , 38, 5485-5500	5.9	39
180	Methods for determining frequency- and region-dependent relationships between estimated LFPs and BOLD responses in humans. <i>Journal of Neurophysiology</i> , 2009 , 101, 491-502	3.2	38
179	Fast texture segmentation model based on the shape operator and active contour 2008 ,		38
178	Transient networks of spatio-temporal connectivity map communication pathways in brain functional systems. <i>NeuroImage</i> , 2017 , 155, 490-502	7.9	37
177	A new early and automated MRI-based predictor of motor improvement after stroke. <i>Neurology</i> , 2012 , 79, 39-46	6.5	37
176	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2009 , 3, 135-147	7.5	37
175	A cross validation study of deep brain stimulation targeting: from experts to atlas-based, segmentation-based and automatic registration algorithms. <i>IEEE Transactions on Medical Imaging</i> , 2006 , 25, 1440-50	11.7	37
174	Reduced fronto-temporal and limbic connectivity in the 22q11.2 deletion syndrome: vulnerability markers for developing schizophrenia?. <i>PLoS ONE</i> , 2013 , 8, e58429	3.7	37
173	Brain network characterization of high-risk preterm-born school-age children. <i>NeuroImage: Clinical</i> , 2016 , 11, 195-209	5.3	37
172	Robust thalamic nuclei segmentation method based on local diffusion magnetic resonance properties. <i>Brain Structure and Function</i> , 2017 , 222, 2203-2216	4	35
171	On Dynamic Stream Weighting for Audio-Visual Speech Recognition. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2012 , 20, 1145-1157		35
170	Fibertract segmentation in position orientation space from high angular resolution diffusion MRI. <i>NeuroImage</i> , 2006 , 32, 665-75	7.9	35
169	Using Pareto optimality to explore the topology and dynamics of the human connectome. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369,	5.8	34
168	Adaptive strategy for the statistical analysis of connectomes. <i>PLoS ONE</i> , 2011 , 6, e23009	3.7	34

167	Enhanced compressed sensing recovery with level set normals. <i>IEEE Transactions on Image Processing</i> , 2013 , 22, 2611-26	8.7	33
166	Three-dimensional encoding/two-dimensional decoding of medical data. <i>IEEE Transactions on Medical Imaging</i> , 2003 , 22, 424-40	11.7	32
165	In-vivo probabilistic atlas of human thalamic nuclei based on diffusion-weighted magnetic resonance imaging. <i>Scientific Data</i> , 2018 , 5, 180270	8.2	31
164	Multiple sclerosis cortical and WM lesion segmentation at 3T MRI: a deep learning method based on FLAIR and MP2RAGE. <i>NeuroImage: Clinical</i> , 2020 , 27, 102335	5.3	31
163	A localization/verification scheme for finding text in images and video frames based on contrast independent features and machine learning methods. <i>Signal Processing: Image Communication</i> , 2004 , 19, 205-217	2.8	30
162	A new method for accurate in vivo mapping of human brain connections using microstructural and anatomical information. <i>Science Advances</i> , 2020 , 6, eaba8245	14.3	30
161	Semi-Supervised Novelty Detection Using SVM Entire Solution Path. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013 , 51, 1939-1950	8.1	29
160	Adaptive Hough transform for the detection of natural shapes under weak affine transformations. <i>Pattern Recognition Letters</i> , 2004 , 25, 1411-1419	4.7	29
159	Information theoretic combination of pattern classifiers. <i>Pattern Recognition</i> , 2010 , 43, 3412-3421	7.7	28
158	Face detection with boosted Gaussian features. <i>Pattern Recognition</i> , 2007 , 40, 2283-2291	7.7	27
157	Global tractography with embedded anatomical priors for quantitative connectivity analysis. <i>Frontiers in Neurology</i> , 2014 , 5, 232	4.1	26
156	Human auditory belt areas specialized in sound recognition: a functional magnetic resonance imaging study. <i>NeuroReport</i> , 2006 , 17, 1659-62	1.7	26
155	A Sparse Reconstruction Framework for Fourier-Based Plane-Wave Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016 , 63, 2092-2106	3.2	26
154	Sequential anisotropic multichannel Wiener filtering with Rician bias correction applied to 3D regularization of DWI data. <i>Medical Image Analysis</i> , 2009 , 13, 19-35	15.4	25
153	Estimating the confidence level of white matter connections obtained with MRI tractography. <i>PLoS ONE</i> , 2008 , 3, e4006	3.7	25
152	Multiscale Active Contours. <i>International Journal of Computer Vision</i> , 2006 , 70, 197-211	10.6	25
151	From error probability to information theoretic (multi-modal) signal processing. <i>Signal Processing</i> , 2005 , 85, 875-902	4.4	25
150	Active deformation fields: dense deformation field estimation for atlas-based segmentation using the active contour framework. <i>Medical Image Analysis</i> , 2011 , 15, 787-800	15.4	24

149	Regional cortical volumes and congenital heart disease: a MRI study in 22q11.2 deletion syndrome. <i>Journal of Neurodevelopmental Disorders</i> , 2010 , 2, 224-234	4.6	23
148	Lossy to lossless object-based coding of 3-D MRI data. <i>IEEE Transactions on Image Processing</i> , 2002 , 11, 1053-61	8.7	23
147	Intracranial Aneurysms: Wall Motion Analysis for Prediction of Rupture. <i>American Journal of Neuroradiology</i> , 2015 , 36, 1796-802	4.4	22
146	Cluster validity measure and merging system for hierarchical clustering considering outliers. <i>Pattern Recognition</i> , 2015 , 48, 1478-1489	7.7	22
145	Semi-supervised segmentation of ultrasound images based on patch representation and continuous min cut. <i>PLoS ONE</i> , 2014 , 9, e100972	3.7	22
144	Geodesic active fields--a geometric framework for image registration. <i>IEEE Transactions on Image Processing</i> , 2011 , 20, 1300-12	8.7	22
143	Influence of the implanted pulse generator as reference electrode in finite element model of monopolar deep brain stimulation. <i>Journal of Neuroscience Methods</i> , 2010 , 186, 90-6	3	22
142	Musical Audio Source Separation Based on User-Selected F0 Track. <i>Lecture Notes in Computer Science</i> , 2012 , 438-445	0.9	22
141	On the cortical connectivity in the macaque brain: A comparison of diffusion tractography and histological tracing data. <i>NeuroImage</i> , 2020 , 221, 117201	7.9	22
140	Towards microstructure fingerprinting: Estimation of tissue properties from a dictionary of Monte Carlo diffusion MRI simulations. <i>NeuroImage</i> , 2019 , 184, 964-980	7.9	22
139	Dynamic modality weighting for multi-stream hmms in audio-visual speech recognition 2008 ,		21
138	Spherical Deconvolution of Multichannel Diffusion MRI Data with Non-Gaussian Noise Models and Spatial Regularization. <i>PLoS ONE</i> , 2015 , 10, e0138910	3.7	21
137	Sparse wars: A survey and comparative study of spherical deconvolution algorithms for diffusion MRI. <i>NeuroImage</i> , 2019 , 184, 140-160	7.9	21
136	Tractography reproducibility challenge with empirical data (TraCED): The 2017 ISMRM diffusion study group challenge. <i>Journal of Magnetic Resonance Imaging</i> , 2020 , 51, 234-249	5.6	21
135	Structured sparsity for spatially coherent fibre orientation estimation in diffusion MRI. <i>NeuroImage</i> , 2015 , 115, 245-55	7.9	20
134	MP2RAGE provides new clinically-compatible correlates of mild cognitive deficits in relapsing-remitting multiple sclerosis. <i>Journal of Neurology</i> , 2014 , 261, 1606-13	5.5	20
133	Variational Segmentation using Fuzzy Region Competition and Local Non-Parametric Probability Density Functions 2007 ,		20
132	Pattern recognition using higher-order local autocorrelation coefficients. <i>Pattern Recognition Letters</i> , 2004 , 25, 1107-1113	4.7	20

131	Harmonic active contours. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 69-82	8.7	19
130	A multi-center study: intra-scan and inter-scan variability of diffusion spectrum imaging. <i>NeuroImage</i> , 2012 , 62, 87-94	7.9	19
129	Segmentation of brain structures in presence of a space-occupying lesion. <i>NeuroImage</i> , 2005 , 24, 990-6	7.9	19
128	Unilateral hemispheric lesions disrupt parallel processing within the contralateral intact hemisphere: an auditory fMRI study. <i>NeuroImage</i> , 2003 , 20 Suppl 1, S66-74	7.9	19
127	Ultrafast Ultrasound Imaging as an Inverse Problem: Matrix-Free Sparse Image Reconstruction. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 339-355	3.2	18
126	High b-value diffusion-weighted imaging: a sensitive method to reveal white matter differences in schizophrenia. <i>Psychiatry Research - Neuroimaging</i> , 2012 , 201, 144-51	2.9	18
125	Tracking the source of cerebellar epilepsy: hemifacial seizures associated with cerebellar cortical dysplasia. <i>Epilepsy Research</i> , 2013 , 105, 245-9	3	18
124	Improved statistical evaluation of group differences in connectomes by screening-filtering strategy with application to study maturation of brain connections between childhood and adolescence. <i>NeuroImage</i> , 2015 , 108, 251-64	7.9	18
123	Axon morphology is modulated by the local environment and impacts the noninvasive investigation of its structure-function relationship. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 33649-33659	11.5	18
122	Structural Brain Network Reorganization and Social Cognition Related to Adverse Perinatal Condition from Infancy to Early Adolescence. <i>Frontiers in Neuroscience</i> , 2016 , 10, 560	5.1	18
121	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. <i>NeuroImage</i> , 2021 , 243, 118502	7.9	18
120	Intrahemispheric cortico-cortical connections of the human auditory cortex. <i>Brain Structure and Function</i> , 2015 , 220, 3537-53	4	17
119	Representing diffusion MRI in 5-D simplifies regularization and segmentation of white matter tracts. <i>IEEE Transactions on Medical Imaging</i> , 2007 , 26, 1547-54	11.7	17
118	Multi-Layer Hierarchical Clustering of Pedestrian Trajectories for Automatic Counting of People in Video Sequences 2005 ,		17
117	Deep Convolutional Neural Network for Ultrasound Image Enhancement 2018 ,		17
116	A connectome-based comparison of diffusion MRI schemes. <i>PLoS ONE</i> , 2013 , 8, e75061	3.7	16
115	Non-Euclidean image-adaptive Radial Basis Functions for 3D interactive segmentation 2009 ,		16
114	Comparison of MRI-based automated segmentation methods and functional neurosurgery targeting with direct visualization of the Ventro-intermediate thalamic nucleus at 7T. <i>Scientific Reports</i> , 2019 , 9, 1119	4.9	15

113	Robust Monte-Carlo Simulations in Diffusion-MRI: Effect of the Substrate Complexity and Parameter Choice on the Reproducibility of Results. <i>Frontiers in Neuroinformatics</i> , 2020 , 14, 8	3.9	15
112	Ventrolateral Motor Thalamus Abnormal Connectivity in Essential Tremor Before and After Thalamotomy: A Resting-State Functional Magnetic Resonance Imaging Study. <i>World Neurosurgery</i> , 2018 , 113, e453-e464	2.1	15
111	Sparse Reverberant Audio Source Separation via Reweighted Analysis. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2013 , 21, 1391-1402		15
110	Kernel matching pursuit for large datasets. <i>Pattern Recognition</i> , 2005 , 38, 2385-2390	7.7	15
109	Validation of Experts versus Atlas-based and Automatic Registration Methods for Subthalamic Nucleus Targeting on MRI. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2006 , 1, 5-12	3.9	14
108	Probing myelin content of the human brain with MRI: A review. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 627-652	4.4	14
107	Compressed delay-and-sum beamforming for ultrafast ultrasound imaging 2016 ,		13
106	Sparse image reconstruction on the sphere: implications of a new sampling theorem. <i>IEEE Transactions on Image Processing</i> , 2013 , 22, 2275-85	8.7	13
105	Local landmark-based registration for fMRI group studies of nonprimary auditory cortex. <i>NeuroImage</i> , 2009 , 44, 145-53	7.9	13
104	Analysis of Head-Mounted Wireless Camera Videos for Early Diagnosis of Autism. <i>Advances in Intelligent and Soft Computing</i> , 2007 , 663-670		13
103	Automatic Segmentation of the Eye in 3D Magnetic Resonance Imaging: A Novel Statistical Shape Model for Treatment Planning of Retinoblastoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015 , 92, 794-802	4	12
102	Accelerated MP2RAGE imaging using Cartesian phyllotaxis readout and compressed sensing reconstruction. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 1881-1894	4.4	12
101	Weighted Shape-Based Averaging With Neighborhood Prior Model for Multiple Atlas Fusion-Based Medical Image Segmentation. <i>IEEE Signal Processing Letters</i> , 2013 , 20, 1034-1037	3.2	12
100	Atlas-based segmentation of medical images locally constrained by level sets 2005 ,		12
99	Multi-pose lipreading and audio-visual speech recognition. <i>Eurasip Journal on Advances in Signal Processing</i> , 2012 , 2012,	1.9	11
98	Semi-supervised Segmentation Based on Non-local Continuous Min-Cut. <i>Lecture Notes in Computer Science</i> , 2009 , 112-123	0.9	11
97	Resolving bundle-specific intra-axonal T values within a voxel using diffusion-relaxation tract-based estimation. <i>NeuroImage</i> , 2021 , 227, 117617	7.9	11
96	Comparison of accelerated T1-weighted whole-brain structural-imaging protocols. <i>NeuroImage</i> , 2016 , 124, 157-167	7.9	10

95	Comparison of diffusion MRI and CLARITY fiber orientation estimates in both gray and white matter regions of human and primate brain. <i>NeuroImage</i> , 2021 , 228, 117692	7.9	10
94	A Physical Model of Nonstationary Blur in Ultrasound Imaging. <i>IEEE Transactions on Computational Imaging</i> , 2019 , 5, 381-394	4.5	9
93	Ultrasound Fourier slice imaging: a novel approach for ultrafast imaging technique 2014 ,		9
92	Sample and Pixel Weighting Strategies for Robust Incremental Visual Tracking. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2013 , 23, 898-911	6.4	9
91	Multi-channel MRI segmentation of eye structures and tumors using patient-specific features. <i>PLoS ONE</i> , 2017 , 12, e0173900	3.7	9
90	Model-informed machine learning for multi-component T relaxometry. <i>Medical Image Analysis</i> , 2021 , 69, 101940	15.4	9
89	Quantitative brain relaxation atlases for personalized detection and characterization of brain pathology. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 337-351	4.4	9
88	Development of CBCT-based prostate setup correction strategies and impact of rectal distension. <i>Radiation Oncology</i> , 2015 , 10, 83	4.2	8
87	Relevant Feature Selection for Audio-Visual Speech Recognition 2007 ,		8
86	Topological principles and developmental algorithms might refine diffusion tractography. <i>Brain Structure and Function</i> , 2019 , 224, 1-8	4	8
85	The structural connectome and motor recovery after stroke: predicting natural recovery. <i>Brain</i> , 2021 , 144, 2107-2119	11.2	8
84	Surface-driven registration method for the structure-informed segmentation of diffusion MR images. <i>NeuroImage</i> , 2016 , 139, 450-461	7.9	7
83	Surface reconstruction from microscopic images in optical lithography. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 3560-73	8.7	7
82	A convex optimization framework for global tractography 2013 ,		7
81	On performance evaluation of face detection and localization algorithms 2004 ,		7
80	Feature space mutual information in speech-video sequences		7
79	Adaptive phase correction of diffusion-weighted images. <i>NeuroImage</i> , 2020 , 206, 116274	7.9	7
78	Fast and high-resolution myelin water imaging: Accelerating multi-echo GRASE with CAIPIRINHA. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 209-222	4.4	7

77	Pretherapeutic Functional Imaging Allows Prediction of Head Tremor Arrest After Thalamotomy for Essential Tremor: The Role of Altered Interconnectivity Between Thalamolimbic and Supplementary Motor Circuits. <i>World Neurosurgery</i> , 2018 , 112, e479-e488	2.1	6
76	Fast model-based T mapping using SAR-reduced simultaneous multislice excitation. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 2090-2103	4.4	6
75	Tensor optimization for optical-interferometric imaging. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 437, 2083-2091	4.3	6
74	Cooperative Object Segmentation and Behavior Inference in Image Sequences. <i>International Journal of Computer Vision</i> , 2009 , 84, 146-162	10.6	6
73	Matching pursuit-based shape representation and recognition using scale-space. <i>International Journal of Imaging Systems and Technology</i> , 2006 , 16, 162-180	2.5	6
72	Automatic Extraction of Geometric Lip Features with Application to Multi-Modal Speaker Identification 2006 ,		6
71	A deep learning approach to ultrasound image recovery 2017 ,		5
70	A Sparse regularization approach for ultrafast ultrasound imaging 2015 ,		5
69	JULIDE: a software tool for 3D reconstruction and statistical analysis of autoradiographic mouse brain sections. <i>PLoS ONE</i> , 2010 , 5, e14094	3.7	5
68	User-constrained guidewire localization in fluoroscopy 2009 ,		5
67	Shape prior based on statistical map for active contour segmentation 2008 ,		5
66	Mixtures of boosted classifiers for frontal face detection. <i>Signal, Image and Video Processing</i> , 2007 , 1, 29-38	1.6	5
65	Automatic registration of 3D MR images with a computerized brain atlas 1996 , 2710, 438		5
64	Tractography dissection variability: what happens when 42 groups dissect 14 white matter bundles on the same dataset?		5
63	Reducing false positives in tractography with microstructural and anatomical priors		5
62	ActiveAx : Toward non-parametric and orientationally invariant axon diameter distribution mapping using PGSE. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 2322-2330	4.4	5
61	On Problem Formulation, Efficient Modeling and Deep Neural Networks for High-Quality Ultrasound Imaging : Invited Presentation 2019 ,		4
60	A deep learning approach to ultrasound image recovery 2017 ,		4

59	Pretherapeutic Motor Thalamus Resting-State Functional Connectivity with Visual Areas Predicts Tremor Arrest After Thalamotomy for Essential Tremor: Tracing the Cerebello-thalamo-visuo-motor Network. <i>World Neurosurgery</i> , 2018 , 117, e438-e449	2.1	4
58	Cardiac output measured by electrical impedance tomography: Applications and limitations 2014 ,		4
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