

Jean Philippe Thiran

List of Publications by Year in descending order

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254
papers

15,991
citations

29994

54
h-index

20900

115
g-index

264
all docs

264
docs citations

264
times ranked

16049
citing authors

#	ARTICLE	IF	CITATIONS
1	The challenge of mapping the human connectome based on diffusion tractography. <i>Nature Communications</i> , 2017, 8, 1349.	5.8	956
2	Fast Global Minimization of the Active Contour/Snake Model. <i>Journal of Mathematical Imaging and Vision</i> , 2007, 28, 151-167.	0.8	763
3	Mapping Human Whole-Brain Structural Networks with Diffusion MRI. <i>PLoS ONE</i> , 2007, 2, e597.	1.1	707
4	Understanding Diffusion MR Imaging Techniques: From Scalar Diffusion-weighted Imaging to Diffusion Tensor Imaging and Beyond. <i>Radiographics</i> , 2006, 26, S205-S223.	1.4	618
5	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, 19067-19072.	3.3	597
6	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, 833-838.	3.3	530
7	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, 417-432.	2.8	495
8	A Surface-Based Approach to Quantify Local Cortical Gyrification. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 161-170.	5.4	470
9	Mapping the human connectome at multiple scales with diffusion spectrum MRI. <i>Journal of Neuroscience Methods</i> , 2012, 203, 386-397.	1.3	413
10	Accelerated Microstructure Imaging via Convex Optimization (AMICO) from diffusion MRI data. <i>NeuroImage</i> , 2015, 105, 32-44.	2.1	377
11	Distinct Pathways Involved in Sound Recognition and Localization: A Human fMRI Study. <i>NeuroImage</i> , 2001, 14, 802-816.	2.1	367
12	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, 1548-1565.	5.4	335
13	Comparison of Admission Perfusion Computed Tomography and Qualitative Diffusion- and Perfusion-Weighted Magnetic Resonance Imaging in Acute Stroke Patients. <i>Stroke</i> , 2002, 33, 2025-2031.	1.0	330
14	DTI mapping of human brain connectivity: statistical fibre tracking and virtual dissection. <i>NeuroImage</i> , 2003, 19, 545-554.	2.1	288
15	Structural connectomics in brain diseases. <i>NeuroImage</i> , 2013, 80, 515-526.	2.1	286
16	Generative models of the human connectome. <i>NeuroImage</i> , 2016, 124, 1054-1064.	2.1	259
17	MR connectomics: Principles and challenges. <i>Journal of Neuroscience Methods</i> , 2010, 194, 34-45.	1.3	251
18	The Connectome Mapper: An Open-Source Processing Pipeline to Map Connectomes with MRI. <i>PLoS ONE</i> , 2012, 7, e48121.	1.1	248

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19	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, 1220-1230.	2.3	247
20	Multisensory Interactions within Human Primary Cortices Revealed by BOLD Dynamics. <i>Cerebral Cortex</i> , 2007, 17, 1672-1679.	1.6	213
21	Limits to anatomical accuracy of diffusion tractography using modern approaches. <i>NeuroImage</i> , 2019, 185, 1-11.	2.1	200
22	What and Where in human audition: selective deficits following focal hemispheric lesions. <i>Experimental Brain Research</i> , 2002, 147, 8-15.	0.7	195
23	COMMIT: Convex Optimization Modeling for Microstructure Informed Tractography. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 246-257.	5.4	188
24	Atlas-Based Segmentation of Pathological MR Brain Images Using a Model of Lesion Growth. <i>IEEE Transactions on Medical Imaging</i> , 2004, 23, 1301-1314.	5.4	172
25	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, 2793-2805.	1.6	169
26	Prediction of asynchronous dimensional emotion ratings from audiovisual and physiological data. <i>Pattern Recognition Letters</i> , 2015, 66, 22-30.	2.6	161
27	Automatic quality assessment in structural brain magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 365-372.	1.9	151
28	Quantitative Comparison of Reconstruction Methods for Intra-Voxel Fiber Recovery From Diffusion MRI. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 384-399.	5.4	145
29	Morphological feature extraction for the classification of digital images of cancerous tissues. <i>IEEE Transactions on Biomedical Engineering</i> , 1996, 43, 1011-1020.	2.5	138
30	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.	10.9	118
31	Localization of electrodes in the subthalamic nucleus on magnetic resonance imaging. <i>Journal of Neurosurgery</i> , 2007, 106, 36-44.	0.9	116
32	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.	1.1	114
33	Deviant trajectories of cortical maturation in 22q11.2 deletion syndrome (22q11DS): A cross-sectional and longitudinal study. <i>Schizophrenia Research</i> , 2009, 115, 182-190.	1.1	112
34	An efficient total variation algorithm for super-resolution in fetal brain MRI with adaptive regularization. <i>NeuroImage</i> , 2015, 118, 584-597.	2.1	107
35	Scale Invariant Feature Transform on the Sphere: Theory and Applications. <i>International Journal of Computer Vision</i> , 2012, 98, 217-241.	10.9	105
36	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.	0.8	104

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37	Behavioral Priors for Detection and Tracking of Pedestrians in Video Sequences. International Journal of Computer Vision, 2006, 69, 159-180.	10.9	101
38	Microstructure Informed Tractography: Pitfalls and Open Challenges. Frontiers in Neuroscience, 2016, 10, 247.	1.4	96
39	How to Measure Cortical Folding from MR Images: a Step-by-Step Tutorial to Compute Local Gyrfication Index. Journal of Visualized Experiments, 2012, , e3417.	0.2	95
40	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. NeuroImage, 2021, 243, 118502.	2.1	94
41	Hand preference and sex shape the architecture of language networks. Human Brain Mapping, 2006, 27, 828-835.	1.9	86
42	Spread Spectrum Magnetic Resonance Imaging. IEEE Transactions on Medical Imaging, 2012, 31, 586-598.	5.4	86
43	White matter fiber tract segmentation in DT-MRI using geometric flows. Medical Image Analysis, 2005, 9, 223-236.	7.0	71
44	Accelerated T ₂ mapping combining parallel MRI and model-based reconstruction: GRAPPATINI. Journal of Magnetic Resonance Imaging, 2018, 48, 359-368.	1.9	71
45	Efficient Algorithm for Level Set Method Preserving Distance Function. IEEE Transactions on Image Processing, 2012, 21, 4722-4734.	6.0	70
46	Characterizing the connectome in schizophrenia with diffusion spectrum imaging. Human Brain Mapping, 2015, 36, 354-366.	1.9	70
47	Enhanced Compressed Sensing Recovery With Level Set Normals. IEEE Transactions on Image Processing, 2013, 22, 2611-2626.	6.0	68
48	Graph theory reveals disconnected hubs in 22q11DS and altered nodal efficiency in patients with hallucinations. Frontiers in Human Neuroscience, 2013, 7, 402.	1.0	67
49	In-vivo probabilistic atlas of human thalamic nuclei based on diffusion-weighted magnetic resonance imaging. Scientific Data, 2018, 5, 180270.	2.4	67
50	Comparing connectomes across subjects and populations at different scales. NeuroImage, 2013, 80, 416-425.	2.1	65
51	Transient networks of spatio-temporal connectivity map communication pathways in brain functional systems. NeuroImage, 2017, 155, 490-502.	2.1	65
52	A new method for accurate in vivo mapping of human brain connections using microstructural and anatomical information. Science Advances, 2020, 6, eaba8245.	4.7	64
53	A level set method for segmentation of the thalamus and its nuclei in DT-MRI. Signal Processing, 2007, 87, 309-321.	2.1	62
54	Sparsity Averaging for Compressive Imaging. IEEE Signal Processing Letters, 2013, 20, 591-594.	2.1	60

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55	Soft Tissue Artifact Assessment During Treadmill Walking in Subjects With Total Knee Arthroplasty. IEEE Transactions on Biomedical Engineering, 2013, 60, 3131-3140.	2.5	59
56	Connectivity and tissue microstructural alterations in right and left temporal lobe epilepsy revealed by diffusion spectrum imaging. NeuroImage: Clinical, 2014, 5, 349-358.	1.4	59
57	Congenital heart disease affects local gyrification in 22q11.2 deletion syndrome. Developmental Medicine and Child Neurology, 2009, 51, 746-753.	1.1	58
58	Robust thalamic nuclei segmentation method based on local diffusion magnetic resonance properties. Brain Structure and Function, 2017, 222, 2203-2216.	1.2	58
59	Scale Space Analysis and Active Contours for Omnidirectional Images. IEEE Transactions on Image Processing, 2007, 16, 1888-1901.	6.0	57
60	Sound recognition and localization in man: specialized cortical networks and effects of acute circumscribed lesions. Experimental Brain Research, 2003, 153, 591-604.	0.7	56
61	Brain network characterization of high-risk preterm-born school-age children. NeuroImage: Clinical, 2016, 11, 195-209.	1.4	55
62	Multiple sclerosis cortical and WM lesion segmentation at 3T MRI: a deep learning method based on FLAIR and MP2RAGE. NeuroImage: Clinical, 2020, 27, 102335.	1.4	54
63	Axon morphology is modulated by the local environment and impacts the noninvasive investigation of its structureâ€”function relationship. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 33649-33659.	3.3	53
64	On Dynamic Stream Weighting for Audio-Visual Speech Recognition. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 1145-1157.	3.8	52
65	On the cortical connectivity in the macaque brain: A comparison of diffusion tractography and histological tracing data. NeuroImage, 2020, 221, 117201.	2.1	52
66	Fast texture segmentation model based on the shape operator and active contour. , 2008, , .		51
67	Information Theoretic Feature Extraction for Audio-Visual Speech Recognition. IEEE Transactions on Signal Processing, 2009, 57, 4765-4776.	3.2	51
68	Using Pareto optimality to explore the topology and dynamics of the human connectome. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130530.	1.8	50
69	Segmentation of Head and Neck Lymph Node Regions for Radiotherapy Planning Using Active Contour-Based Atlas Registration. IEEE Journal on Selected Topics in Signal Processing, 2009, 3, 135-147.	7.3	49
70	A new early and automated MRI-based predictor of motor improvement after stroke. Neurology, 2012, 79, 39-46.	1.5	49
71	Sparse regularization for fiber ODF reconstruction: From the suboptimality of and priors to. Medical Image Analysis, 2014, 18, 820-833.	7.0	49
72	Ultrasound Measurement of the Fibrous Cap in Symptomatic and Asymptomatic Atheromatous Carotid Plaques. Circulation, 2005, 111, 2776-2782.	1.6	47

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73	Ax<scp>T</scp>ract: Toward microstructure informed tractography. <i>Human Brain Mapping</i> , 2017, 38, 5485-5500.	1.9	47
74	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.	0.9	45
75	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, 1440-1450.	5.4	44
76	Reduced Fronto-Temporal and Limbic Connectivity in the 22q11.2 Deletion Syndrome: Vulnerability Markers for Developing Schizophrenia?. <i>PLoS ONE</i> , 2013, 8, e58429.	1.1	44
77	Face detection with boosted Gaussian features. <i>Pattern Recognition</i> , 2007, 40, 2283-2291.	5.1	42
78	Probing myelin content of the human brain with MRI: A review. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 627-652.	1.9	42
79	Three-dimensional encoding/two-dimensional decoding of medical data. <i>IEEE Transactions on Medical Imaging</i> , 2003, 22, 424-440.	5.4	41
80	Fibertract segmentation in position orientation space from high angular resolution diffusion MRI. <i>NeuroImage</i> , 2006, 32, 665-675.	2.1	41
81	The structural connectome and motor recovery after stroke: predicting natural recovery. <i>Brain</i> , 2021, 144, 2107-2119.	3.7	41
82	Adaptive Strategy for the Statistical Analysis of Connectomes. <i>PLoS ONE</i> , 2011, 6, e23009.	1.1	39
83	Towards microstructure fingerprinting: Estimation of tissue properties from a dictionary of Monte Carlo diffusion MRI simulations. <i>NeuroImage</i> , 2019, 184, 964-980.	2.1	38
84	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.	1.9	38
85	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.	1.8	37
86	Adaptive Hough transform for the detection of natural shapes under weak affine transformations. <i>Pattern Recognition Letters</i> , 2004, 25, 1411-1419.	2.6	36
87	Human auditory belt areas specialized in sound recognition: a functional magnetic resonance imaging study. <i>NeuroReport</i> , 2006, 17, 1659-1662.	0.6	34
88	Semi-Supervised Novelty Detection Using SVM Entire Solution Path. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 1939-1950.	2.7	34
89	Global Tractography with Embedded Anatomical Priors for Quantitative Connectivity Analysis. <i>Frontiers in Neurology</i> , 2014, 5, 232.	1.1	34
90	Multiscale Active Contours. <i>International Journal of Computer Vision</i> , 2006, 70, 197-211.	10.9	33

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91	Information theoretic combination of pattern classifiers. <i>Pattern Recognition</i> , 2010, 43, 3412-3421.	5.1	33
92	Semi-Supervised Segmentation of Ultrasound Images Based on Patch Representation and Continuous Min Cut. <i>PLoS ONE</i> , 2014, 9, e100972.	1.1	32
93	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.	1.4	32
94	A Sparse Reconstruction Framework for Fourier-Based Plane-Wave Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016, 63, 2092-2106.	1.7	32
95	Lossy to lossless object-based coding of 3-D MRI data. <i>IEEE Transactions on Image Processing</i> , 2002, 11, 1053-1061.	6.0	31
96	Intracranial Aneurysms: Wall Motion Analysis for Prediction of Rupture. <i>American Journal of Neuroradiology</i> , 2015, 36, 1796-1802.	1.2	30
97	Deep Convolutional Neural Network for Ultrasound Image Enhancement. , 2018, , .		30
98	Accelerated MP2RAGE imaging using Cartesian phyllotaxis readout and compressed sensing reconstruction. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1881-1894.	1.9	30
99	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.	7.0	29
100	Sparse wars: A survey and comparative study of spherical deconvolution algorithms for diffusion MRI. <i>NeuroImage</i> , 2019, 184, 140-160.	2.1	29
101	Musical Audio Source Separation Based on User-Selected F0 Track. <i>Lecture Notes in Computer Science</i> , 2012, , 438-445.	1.0	29
102	Dynamic modality weighting for multi-stream hmms in audio-visual speech recognition. , 2008, , .		29
103	Geodesic Active Fields – A Geometric Framework for Image Registration. <i>IEEE Transactions on Image Processing</i> , 2011, 20, 1300-1312.	6.0	28
104	Intrahemispheric cortico-cortical connections of the human auditory cortex. <i>Brain Structure and Function</i> , 2015, 220, 3537-3553.	1.2	28
105	Resolving bundle-specific intra-axonal T2 values within a voxel using diffusion-relaxation tract-based estimation. <i>NeuroImage</i> , 2021, 227, 117617.	2.1	28
106	From error probability to information theoretic (multi-modal) signal processing. <i>Signal Processing</i> , 2005, 85, 875-902.	2.1	27
107	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.	1.5	27
108	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, 251-264.	2.1	27

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109	Ultrafast Ultrasound Imaging as an Inverse Problem: Matrix-Free Sparse Image Reconstruction. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 339-355.	1.7	27
110	Spherical Deconvolution of Multichannel Diffusion MRI Data with Non-Gaussian Noise Models and Spatial Regularization. PLoS ONE, 2015, 10, e0138910.	1.1	27
111	Structured sparsity for spatially coherent fibre orientation estimation in diffusion MRI. NeuroImage, 2015, 115, 245-255.	2.1	26
112	Robust Monte-Carlo Simulations in Diffusion-MRI: Effect of the Substrate Complexity and Parameter Choice on the Reproducibility of Results. Frontiers in Neuroinformatics, 2020, 14, 8.	1.3	26
113	Model-informed machine learning for multi-component T_2 relaxometry. Medical Image Analysis, 2021, 69, 101940.	7.0	26
114	Pattern recognition using higher-order local autocorrelation coefficients. Pattern Recognition Letters, 2004, 25, 1107-1113.	2.6	25
115	Variational Segmentation using Fuzzy Region Competition and Local Non-Parametric Probability Density Functions. , 2007, , .		25
116	Estimating the Confidence Level of White Matter Connections Obtained with MRI Tractography. PLoS ONE, 2008, 3, e4006.	1.1	25
117	Active deformation fields: Dense deformation field estimation for atlas-based segmentation using the active contour framework. Medical Image Analysis, 2011, 15, 787-800.	7.0	25
118	Cluster validity measure and merging system for hierarchical clustering considering outliers. Pattern Recognition, 2015, 48, 1478-1489.	5.1	25
119	MP2RAGE provides new clinically-compatible correlates of mild cognitive deficits in relapsing-remitting multiple sclerosis. Journal of Neurology, 2014, 261, 1606-1613.	1.8	24
120	Influence of the implanted pulse generator as reference electrode in finite element model of monopolar deep brain stimulation. Journal of Neuroscience Methods, 2010, 186, 90-96.	1.3	23
121	Ventrolateral Motor Thalamus Abnormal Connectivity in Essential Tremor Before and After Thalamotomy: A Resting-State Functional Magnetic Resonance Imaging Study. World Neurosurgery, 2018, 113, e453-e464.	0.7	23
122	Harmonic Active Contours. IEEE Transactions on Image Processing, 2014, 23, 69-82.	6.0	22
123	Segmentation of brain structures in presence of a space-occupying lesion. NeuroImage, 2005, 24, 990-996.	2.1	21
124	Multi-Layer Hierarchical Clustering of Pedestrian Trajectories for Automatic Counting of People in Video Sequences. , 2005, , .		21
125	A multi-center study: Intra-scan and inter-scan variability of diffusion spectrum imaging. NeuroImage, 2012, 62, 87-94.	2.1	21
126	High b-value diffusion-weighted imaging: A sensitive method to reveal white matter differences in schizophrenia. Psychiatry Research - Neuroimaging, 2012, 201, 144-151.	0.9	21

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127	A Connectome-Based Comparison of Diffusion MRI Schemes. <i>PLoS ONE</i> , 2013, 8, e75061.	1.1	21
128	Compressed delay-and-sum beamforming for ultrafast ultrasound imaging. , 2016, , .		21
129	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.	1.6	21
130	Unilateral hemispheric lesions disrupt parallel processing within the contralateral intact hemisphere: an auditory fMRI study. <i>NeuroImage</i> , 2003, 20, S66-S74.	2.1	20
131	Multi-pose lipreading and audio-visual speech recognition. <i>Eurasip Journal on Advances in Signal Processing</i> , 2012, 2012, .	1.0	20
132	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.	2.1	20
133	Kernel matching pursuit for large datasets. <i>Pattern Recognition</i> , 2005, 38, 2385-2390.	5.1	19
134	Representing Diffusion MRI in 5-D Simplifies Regularization and Segmentation of White Matter Tracts. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 1547-1554.	5.4	19
135	Tracking the source of cerebellar epilepsy: Hemifacial seizures associated with cerebellar cortical dysplasia. <i>Epilepsy Research</i> , 2013, 105, 245-249.	0.8	19
136	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.	0.4	19
137	Quantitative brain relaxation atlases for personalized detection and characterization of brain pathology. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 337-351.	1.9	19
138	CNN-Based Image Reconstruction Method for Ultrafast Ultrasound Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 1154-1168.	1.7	19
139	Semi-supervised Segmentation Based on Non-local Continuous Min-Cut. <i>Lecture Notes in Computer Science</i> , 2009, , 112-123.	1.0	18
140	Non-Euclidean image-adaptive Radial Basis Functions for 3D interactive segmentation. , 2009, , .		17
141	Sparse Reverberant Audio Source Separation via Reweighted Analysis. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2013, 21, 1391-1402.	3.8	17
142	Sparse Image Reconstruction on the Sphere: Implications of a New Sampling Theorem. <i>IEEE Transactions on Image Processing</i> , 2013, 22, 2275-2285.	6.0	17
143	A convex optimization framework for global tractography. , 2013, , .		17
144	Insights from the IronTract challenge: Optimal methods for mapping brain pathways from multi-shell diffusion MRI. <i>NeuroImage</i> , 2022, 257, 119327.	2.1	17

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145	Atlas-based segmentation of medical images locally constrained by level sets. , 2005, , .		16
146	Fast and high-resolution myelin water imaging: Accelerating multi-echo GRASE with CAIPIRINHA. Magnetic Resonance in Medicine, 2021, 85, 209-222.	1.9	16
147	Comparison of non-parametric T2 relaxometry methods for myelin water quantification. Medical Image Analysis, 2021, 69, 101959.	7.0	16
148	Validation of Experts versus Atlas-based and Automatic Registration Methods for Subthalamic Nucleus Targeting on MRI. International Journal of Computer Assisted Radiology and Surgery, 2006, 1, 5-12.	1.7	15
149	Analysis of Head-Mounted Wireless Camera Videos for Early Diagnosis of Autism. Advances in Intelligent and Soft Computing, 2007, , 663-670.	0.2	15
150	Local landmark-based registration for fMRI group studies of nonprimary auditory cortex. NeuroImage, 2009, 44, 145-153.	2.1	14
151	Weighted Shape-Based Averaging With Neighborhood Prior Model for Multiple Atlas Fusion-Based Medical Image Segmentation. IEEE Signal Processing Letters, 2013, 20, 1034-1037.	2.1	14
152	Ultrasound Fourier slice imaging: a novel approach for ultrafast imaging technique. , 2014, , .		14
153	Comparison of accelerated T1-weighted whole-brain structural-imaging protocols. NeuroImage, 2016, 124, 157-167.	2.1	14
154	Adaptive phase correction of diffusion-weighted images. NeuroImage, 2020, 206, 116274.	2.1	14
155	<title>Automatic registration of 3D MR images with a computerized brain atlas</title>. , 1996, 2710, 438.		13
156	A Physical Model of Nonstationary Blur in Ultrasound Imaging. IEEE Transactions on Computational Imaging, 2019, 5, 381-394.	2.6	13
157	Fetal Brain Biometric Measurements on 3D Super-Resolution Reconstructed T2-Weighted MRI: An Intra- and Inter-observer Agreement Study. Frontiers in Pediatrics, 2021, 9, 639746.	0.9	13
158	Multi-channel MRI segmentation of eye structures and tumors using patient-specific features. PLoS ONE, 2017, 12, e0173900.	1.1	13
159	Surface-driven registration method for the structure-informed segmentation of diffusion MR images. NeuroImage, 2016, 139, 450-461.	2.1	12
160	Matching pursuit-based shape representation and recognition using scale-space. International Journal of Imaging Systems and Technology, 2006, 16, 162-180.	2.7	11
161	Sample and Pixel Weighting Strategies for Robust Incremental Visual Tracking. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 898-911.	5.6	11
162	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. World Neurosurgery, 2018, 117, e438-e449.	0.7	11

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163	Fast model-based T_2 mapping using SAR-reduced simultaneous multislice excitation. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 2090-2103.	1.9	11
164	Self-rule to multi-adapt: Generalized multi-source feature learning using unsupervised domain adaptation for colorectal cancer tissue detection. <i>Medical Image Analysis</i> , 2022, 79, 102473.	7.0	11
165	Feature space mutual information in speech-video sequences. , 0, , .		10
166	Relevant Feature Selection for Audio-Visual Speech Recognition. , 2007, , .		10
167	A deep learning approach to ultrasound image recovery. , 2017, , .		10
168	Development of CBCT-based prostate setup correction strategies and impact of rectal distension. <i>Radiation Oncology</i> , 2015, 10, 83.	1.2	9
169	A Sparse regularization approach for ultrafast ultrasound imaging. , 2015, , .		9
170	Topological principles and developmental algorithms might refine diffusion tractography. <i>Brain Structure and Function</i> , 2019, 224, 1-8.	1.2	9
171	ActiveAx _{ADD} : Toward non-parametric and orientationally invariant axon diameter distribution mapping using PGSE. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2322-2330.	1.9	9
172	On performance evaluation of face detection and localization algorithms. , 2004, , .		8
173	Shape prior based on statistical map for active contour segmentation. , 2008, , .		8
174	User-constrained guidewire localization in fluoroscopy. <i>Proceedings of SPIE</i> , 2009, , .	0.8	8
175	Tensor optimization for optical-interferometric imaging. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 2083-2091.	1.6	8
176	Surface Reconstruction From Microscopic Images in Optical Lithography. <i>IEEE Transactions on Image Processing</i> , 2014, 23, 3560-3573.	6.0	8
177	MPRAGE to MP2RAGE UNI translation via generative adversarial network improves the automatic tissue and lesion segmentation in multiple sclerosis patients. <i>Computers in Biology and Medicine</i> , 2021, 132, 104297.	3.9	8
178	Revisiting the T2 spectrum imaging inverse problem: Bayesian regularized non-negative least squares. <i>NeuroImage</i> , 2021, 244, 118582.	2.1	8
179	Automatic Extraction of Geometric Lip Features with Application to Multi-Modal Speaker Identification. , 2006, , .		7
180	Cooperative Object Segmentation and Behavior Inference in Image Sequences. <i>International Journal of Computer Vision</i> , 2009, 84, 146-162.	10.9	7

#	ARTICLE	IF	CITATIONS
181	A deep learning approach to ultrasound image recovery. , 2017, , .		7
182	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. World Neurosurgery, 2018, 112, e479-e488.	0.7	7
183	Single-FPGA, scalable, low-power, and high-quality 3D ultrasound beamformer. , 2016, , .		6
184	Joint Object Segmentation and Behavior Classification in Image Sequences. , 2007, , .		5
185	Mixtures of boosted classifiers for frontal face detection. Signal, Image and Video Processing, 2007, 1, 29-38.	1.7	5
186	Bi-planar 2D-to-3D registration in Fourier domain for stereoscopic x-ray motion tracking. Proceedings of SPIE, 2008, , .	0.8	5
187	JULIDE: A Software Tool for 3D Reconstruction and Statistical Analysis of Autoradiographic Mouse Brain Sections. PLoS ONE, 2010, 5, e14094.	1.1	5
188	Sparse non-negative decomposition of speech power spectra for formant tracking. , 2011, , .		5
189	Computing effective properties of random heterogeneous materials on heterogeneous parallel processors. Computer Physics Communications, 2012, 183, 2424-2433.	3.0	5
190	Source/Filter Factorial Hidden Markov Model, With Application to Pitch and Formant Tracking. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 2541-2553.	3.8	5
191	Efficient Total Variation Algorithm for Fetal Brain MRI Reconstruction. Lecture Notes in Computer Science, 2014, 17, 252-259.	1.0	5
192	Apodization scheme for hardware-efficient beamformer. , 2016, , .		5
193	On Problem Formulation, Efficient Modeling and Deep Neural Networks for High-Quality Ultrasound Imaging : Invited Presentation. , 2019, , .		5
194	The diffusion-simulated connectivity (DiSCo) dataset. Data in Brief, 2021, 38, 107429.	0.5	5
195	Image Segmentation Model using Active Contour and Image Decomposition. , 2006, , .		4
196	A Scale-Space of Cortical Feature Maps. IEEE Signal Processing Letters, 2009, 16, 873-876.	2.1	4
197	Sampling theorems and compressive sensing on the sphere. Proceedings of SPIE, 2011, , .	0.8	4
198	Unsupervised change detection via hierarchical support vector clustering. , 2012, , .		4

#	ARTICLE	IF	CITATIONS
199	Improved local binary pattern based action unit detection using morphological and bilateral filters. , 2013, , .		4
200	Non-linear low-rank and sparse representation for hyperspectral image analysis. , 2014, , .		4
201	Cardiac output measured by electrical impedance tomography: Applications and limitations. , 2014, , .		4
202	MBIS: Multivariate Bayesian Image Segmentation tool. Computer Methods and Programs in Biomedicine, 2014, 115, 76-94.	2.6	4
203	Extension of Ultrasound Fourier Slice Imaging theory to sectorial acquisition. , 2015, , .		4
204	Single-FPGA complete 3D and 2D medical ultrasound imager. , 2017, , .		4
205	Normal volumetric and T1 relaxation time values at 1.5ÅT in segmented pediatric brain MRI using a MP2RAGE acquisition. European Radiology, 2021, 31, 1505-1516.	2.3	4
206	Axonal T2 estimation using the spherical variance of the strongly diffusion-weighted MRI signal. Magnetic Resonance Imaging, 2022, 86, 118-134.	1.0	4
207	Evaluating reproducibility and subject-specificity of microstructure-informed connectivity. NeuroImage, 2022, 258, 119356.	2.1	4
208	Title is missing!. Investigative Radiology, 2003, 38, 257-262.	3.5	3
209	Event-driven Scheduling for Parallel Stream Processing. , 2011, , .		3
210	Automatic prostate segmentation in cone-beam computed tomography images using rigid registration. , 2013, 2013, 3993-7.		3
211	A compressed beamforming framework for ultrafast ultrasound imaging. , 2016, , .		3
212	Morphological component analysis for sparse regularization in plane wave imaging. , 2016, , .		3
213	Learning the weight matrix for sparsity averaging in compressive imaging. , 2017, , .		3
214	Multiple Local Curvature Gabor Binary Patterns for Facial Action Recognition. Lecture Notes in Computer Science, 2013, , 136-147.	1.0	3
215	Dyadic frames of directional wavelets as texture descriptors. , 2000, , .		2
216	MONTE CARLO VIDEO TEXT SEGMENTATION. International Journal of Pattern Recognition and Artificial Intelligence, 2005, 19, 647-661.	0.7	2

#	ARTICLE	IF	CITATIONS
217	CEC designer: Domain specific modelling for the industrial automation based on the IEC 61499 standard. , 2008, , .		2
218	Geodesic Active Fields on the Sphere. , 2010, , .		2
219	Harmonic active contours for multichannel image segmentation. , 2011, , .		2
220	Single-FPGA 3D ultrasound beamformer. , 2016, , .		2
221	Inexpensive 1024-channel 3D telesonography system on FPGA. , 2017, , .		2
222	Joint Sparsity With Partially Known Support and Application to Ultrasound Imaging. IEEE Signal Processing Letters, 2019, 26, 84-88.	2.1	2
223	X-ray imaging detector for radiological applications adapted to the context and requirements of low- and middle-income countries. Review of Scientific Instruments, 2022, 93, 034102.	0.6	2
224	<title>HELINET: an integrated network of unmanned aerial vehicles for optical Earth surveillance</title>. , 2000, , .		1
225	Supervised nonparametric information theoretic classification. , 2004, , .		1
226	Iterative Full Head Finite Element Model for Deep Brain Stimulation. , 2007, , .		1
227	Basic Concepts of Multimodal Analysis. , 2010, , 145-152.		1
228	Overcoming asynchrony in Audio-Visual Speech Recognition. , 2010, , .		1
229	Geodesic Active Fieldsâ€™A Geometric Framework for Image Registration. , 2010, , .		1
230	Comparison of energy minimization methods for 3-D brain tissue classification. , 2011, , .		1
231	Evaluation of atlas fusion strategies for segmentation of head and neck lymph nodes for radiotherapy planning. , 2012, , .		1
232	Fast globally supervised segmentation by active contours with shape and texture descriptors. , 2012, , .		1
233	Semi-supervised and unsupervised novelty detection using nested support vector machines. , 2012, , .		1
234	A realistic Computed Tomography simulator for small motion analysis of cerebral aneurysms. , 2013, 2013, 5103-6.		1

#	ARTICLE	IF	CITATIONS
235	Crop backscatter modeling and soil moisture estimation with support vector regression. , 2014, , .		1
236	Fast Geodesic Active Fields for Image Registration Based on Splitting and Augmented Lagrangian Approaches. IEEE Transactions on Image Processing, 2014, 23, 673-683.	6.0	1
237	Sparse regularization methods in ultrafast ultrasound imaging. , 2016, , .		1
238	USSR: An ultrasound sparse regularization framework. , 2017, , .		1
239	USSR: An ultrasound sparse regularization framework. , 2017, , .		1
240	A comprehensive error rate for multiple testing. Statistical Papers, 2020, 61, 1859-1874.	0.7	1
241	The Microstructural Features of the Diffusion-Simulated Connectivity (DiSCo) Dataset. Lecture Notes in Computer Science, 2021, , 159-170.	1.0	1
242	<title>ROI-based multiresolution compression of heart MR images</title>. , 1998, 3335, 583.		0
243	Simultaneous registration and bias-correction of intra-operative MR images. , 2003, , .		0
244	Real-Time Treatment Planning Optimisation for Brachytherapy. , 0, , .		0
245	Automatic subthalamic nucleus targeting for deep brain stimulation. A validation study. International Congress Series, 2005, 1281, 804-809.	0.2	0
246	Classification of tensors and fiber tracts using Mercer-kernels encoding soft probabilistic spatial and diffusion information. , 2009, , .		0
247	Towards a diffusion image processing validation and accuracy prediction framework. , 2011, , .		0
248	Binary Active Contours using both inside and outside texture descriptors. , 2012, , .		0
249	Live demonstration: Inexpensive 1024-channel 3D teleonography system on FPGA. , 2017, , .		0
250	Learning Global Brain Microstructure Maps Using Trainable Sparse Encoders. , 2019, , .		0
251	Modality Integration Methods. , 2010, , 171-184.		0
252	Letter to the Editor. Resting-state functional MRI for functional neurosurgery: seeing the light?. Journal of Neurosurgery, 2019, 131, 1339-1340.	0.9	0

#	ARTICLE	IF	CITATIONS
253	Fast Fiber Orientation Estimation in Diffusion MRI from kq-Space Sampling and Anatomical Priors. Journal of Imaging, 2021, 7, 226.	1.7	0
254	Data-driven myelin water imaging based on T ₁ and T ₂ relaxometry. NMR in Biomedicine, 2021, , e4668.	1.6	0