

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
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264
all docs

264
docs citations

264
times ranked

16049
citing authors

#	ARTICLE	IF	CITATIONS
1	Axonal T2 estimation using the spherical variance of the strongly diffusion-weighted MRI signal. <i>Magnetic Resonance Imaging</i> , 2022, 86, 118-134.	1.0	4
2	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
3	X-ray imaging detector for radiological applications adapted to the context and requirements of low- and middle-income countries. <i>Review of Scientific Instruments</i> , 2022, 93, 034102.	0.6	2
4	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
5	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
6	Evaluating reproducibility and subject-specificity of microstructure-informed connectivity. <i>NeuroImage</i> , 2022, 258, 119356.	2.1	4
7	Fast and high-resolution myelin water imaging: Accelerating multi-echo GRASE with CAIPIRINHA. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 209-222.	1.9	16
8	Normal volumetric and T1 relaxation time values at 1.5T in segmented pediatric brain MRI using a MP2RAGE acquisition. <i>European Radiology</i> , 2021, 31, 1505-1516.	2.3	4
9	Probing myelin content of the human brain with MRI: A review. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 627-652.	1.9	42
10	The Microstructural Features of the Diffusion-Simulated Connectivity (DiSCo) Dataset. <i>Lecture Notes in Computer Science</i> , 2021, , 159-170.	1.0	1
11	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
12	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
13	Model-informed machine learning for multi-component T_2 relaxometry. <i>Medical Image Analysis</i> , 2021, 69, 101940.	7.0	26
14	Comparison of non-parametric T2 relaxometry methods for myelin water quantification. <i>Medical Image Analysis</i> , 2021, 69, 101959.	7.0	16
15	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
16	The structural connectome and motor recovery after stroke: predicting natural recovery. <i>Brain</i> , 2021, 144, 2107-2119.	3.7	41
17	Fetal Brain Biometric Measurements on 3D Super-Resolution Reconstructed T2-Weighted MRI: An Intra- and Inter-observer Agreement Study. <i>Frontiers in Pediatrics</i> , 2021, 9, 639746.	0.9	13
18	The diffusion-simulated connectivity (DiSCo) dataset. <i>Data in Brief</i> , 2021, 38, 107429.	0.5	5

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19	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. <i>NeuroImage</i> , 2021, 243, 118502.	2.1	94
20	Revisiting the T2 spectrum imaging inverse problem: Bayesian regularized non-negative least squares. <i>NeuroImage</i> , 2021, 244, 118582.	2.1	8
21	Fast Fiber Orientation Estimation in Diffusion MRI from kq-Space Sampling and Anatomical Priors. <i>Journal of Imaging</i> , 2021, 7, 226.	1.7	0
22	Data-driven myelin water imaging based on T ₁ and T ₂ relaxometry. <i>NMR in Biomedicine</i> , 2021, , e4668.	1.6	0
23	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
24	A comprehensive error rate for multiple testing. <i>Statistical Papers</i> , 2020, 61, 1859-1874.	0.7	1
25	Adaptive phase correction of diffusion-weighted images. <i>NeuroImage</i> , 2020, 206, 116274.	2.1	14
26	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
27	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
28	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.	1.4	54
29	A new method for accurate in vivo mapping of human brain connections using microstructural and anatomical information. <i>Science Advances</i> , 2020, 6, eaba8245.	4.7	64
30	On the cortical connectivity in the macaque brain: A comparison of diffusion tractography and histological tracing data. <i>NeuroImage</i> , 2020, 221, 117201.	2.1	52
31	Accelerated MP2RAGE imaging using Cartesian phyllotaxis readout and compressed sensing reconstruction. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1881-1894.	1.9	30
32	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.	1.3	26
33	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.	3.3	53
34	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
35	Learning Global Brain Microstructure Maps Using Trainable Sparse Encoders. , 2019, , .		0
36	On Problem Formulation, Efficient Modeling and Deep Neural Networks for High-Quality Ultrasound Imaging : Invited Presentation. , 2019, , .		5

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37	A Physical Model of Nonstationary Blur in Ultrasound Imaging. IEEE Transactions on Computational Imaging, 2019, 5, 381-394.	2.6	13
38	Comparison of MRI-based automated segmentation methods and functional neurosurgery targeting with direct visualization of the Ventro-intermediate thalamic nucleus at 7T. Scientific Reports, 2019, 9, 1119.	1.6	21
39	Sparse wars: A survey and comparative study of spherical deconvolution algorithms for diffusion MRI. NeuroImage, 2019, 184, 140-160.	2.1	29
40	Topological principles and developmental algorithms might refine diffusion tractography. Brain Structure and Function, 2019, 224, 1-8.	1.2	9
41	Joint Sparsity With Partially Known Support and Application to Ultrasound Imaging. IEEE Signal Processing Letters, 2019, 26, 84-88.	2.1	2
42	Limits to anatomical accuracy of diffusion tractography using modern approaches. NeuroImage, 2019, 185, 1-11.	2.1	200
43	Towards microstructure fingerprinting: Estimation of tissue properties from a dictionary of Monte Carlo diffusion MRI simulations. NeuroImage, 2019, 184, 964-980.	2.1	38
44	Letter to the Editor. Resting-state functional MRI for functional neurosurgery: seeing the light?. Journal of Neurosurgery, 2019, 131, 1339-1340.	0.9	0
45	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
46	Accelerated T ₂ mapping combining parallel MRI and model-based reconstruction: GRAPPATINI. Journal of Magnetic Resonance Imaging, 2018, 48, 359-368.	1.9	71
47	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
48	Deep Convolutional Neural Network for Ultrasound Image Enhancement. , 2018, , .		30
49	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
50	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
51	In-vivo probabilistic atlas of human thalamic nuclei based on diffusion-weighted magnetic resonance imaging. Scientific Data, 2018, 5, 180270.	2.4	67
52	Transient networks of spatio-temporal connectivity map communication pathways in brain functional systems. NeuroImage, 2017, 155, 490-502.	2.1	65
53	Robust thalamic nuclei segmentation method based on local diffusion magnetic resonance properties. Brain Structure and Function, 2017, 222, 2203-2216.	1.2	58
54	Axtract: Toward microstructure informed tractography. Human Brain Mapping, 2017, 38, 5485-5500.	1.9	47

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55	The challenge of mapping the human connectome based on diffusion tractography. Nature Communications, 2017, 8, 1349.	5.8	956
56	A deep learning approach to ultrasound image recovery. , 2017, , .		10
57	Single-FPGA complete 3D and 2D medical ultrasound imager. , 2017, , .		4
58	Learning the weight matrix for sparsity averaging in compressive imaging. , 2017, , .		3
59	Live demonstration: Inexpensive 1024-channel 3D teleosonography system on FPGA. , 2017, , .		0
60	Inexpensive 1024-channel 3D teleosonography system on FPGA. , 2017, , .		2
61	A deep learning approach to ultrasound image recovery. , 2017, , .		7
62	USSR: An ultrasound sparse regularization framework. , 2017, , .		1
63	USSR: An ultrasound sparse regularization framework. , 2017, , .		1
64	Multi-channel MRI segmentation of eye structures and tumors using patient-specific features. PLoS ONE, 2017, 12, e0173900.	1.1	13
65	Microstructure Informed Tractography: Pitfalls and Open Challenges. Frontiers in Neuroscience, 2016, 10, 247.	1.4	96
66	Structural Brain Network Reorganization and Social Cognition Related to Adverse Perinatal Condition from Infancy to Early Adolescence. Frontiers in Neuroscience, 2016, 10, 560.	1.4	32
67	Apodization scheme for hardware-efficient beamformer. , 2016, , .		5
68	Sparse regularization methods in ultrafast ultrasound imaging. , 2016, , .		1
69	A compressed beamforming framework for ultrafast ultrasound imaging. , 2016, , .		3
70	Morphological component analysis for sparse regularization in plane wave imaging. , 2016, , .		3
71	Brain network characterization of high-risk preterm-born school-age children. NeuroImage: Clinical, 2016, 11, 195-209.	1.4	55
72	Single-FPGA 3D ultrasound beamformer. , 2016, , .		2

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73	A Sparse Reconstruction Framework for Fourier-Based Plane-Wave Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 2092-2106.	1.7	32
74	Single-FPGA, scalable, low-power, and high-quality 3D ultrasound beamformer. , 2016, , .		6
75	Compressed delay-and-sum beamforming for ultrafast ultrasound imaging. , 2016, , .		21
76	Surface-driven registration method for the structure-informed segmentation of diffusion MR images. NeuroImage, 2016, 139, 450-461.	2.1	12
77	Comparison of accelerated T1-weighted whole-brain structural-imaging protocols. NeuroImage, 2016, 124, 157-167.	2.1	14
78	Generative models of the human connectome. NeuroImage, 2016, 124, 1054-1064.	2.1	259
79	Extension of Ultrasound Fourier Slice Imaging theory to sectorial acquisition. , 2015, , .		4
80	Development of CBCT-based prostate setup correction strategies and impact of rectal distension. Radiation Oncology, 2015, 10, 83.	1.2	9
81	A Sparse regularization approach for ultrafast ultrasound imaging. , 2015, , .		9
82	COMMIT: Convex Optimization Modeling for Microstructure Informed Tractography. IEEE Transactions on Medical Imaging, 2015, 34, 246-257.	5.4	188
83	Improved statistical evaluation of group differences in connectomes by screening filtering strategy with application to study maturation of brain connections between childhood and adolescence. NeuroImage, 2015, 108, 251-264.	2.1	27
84	Characterizing the connectome in schizophrenia with diffusion spectrum imaging. Human Brain Mapping, 2015, 36, 354-366.	1.9	70
85	Intrahemispheric cortico-cortical connections of the human auditory cortex. Brain Structure and Function, 2015, 220, 3537-3553.	1.2	28
86	Prediction of asynchronous dimensional emotion ratings from audiovisual and physiological data. Pattern Recognition Letters, 2015, 66, 22-30.	2.6	161
87	An efficient total variation algorithm for super-resolution in fetal brain MRI with adaptive regularization. NeuroImage, 2015, 118, 584-597.	2.1	107
88	Structured sparsity for spatially coherent fibre orientation estimation in diffusion MRI. NeuroImage, 2015, 115, 245-255.	2.1	26
89	Automatic Segmentation of the Eye in 3D Magnetic Resonance Imaging: A Novel Statistical Shape Model for Treatment Planning of Retinoblastoma. International Journal of Radiation Oncology Biology Physics, 2015, 92, 794-802.	0.4	19
90	Intracranial Aneurysms: Wall Motion Analysis for Prediction of Rupture. American Journal of Neuroradiology, 2015, 36, 1796-1802.	1.2	30

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91	Cluster validity measure and merging system for hierarchical clustering considering outliers. Pattern Recognition, 2015, 48, 1478-1489.	5.1	25
92	Accelerated Microstructure Imaging via Convex Optimization (AMICO) from diffusion MRI data. NeuroImage, 2015, 105, 32-44.	2.1	377
93	Structural Brain Connectivity in School-Age Preterm Infants Provides Evidence for Impaired Networks Relevant for Higher Order Cognitive Skills and Social Cognition. Cerebral Cortex, 2015, 25, 2793-2805.	1.6	169
94	Spherical Deconvolution of Multichannel Diffusion MRI Data with Non-Gaussian Noise Models and Spatial Regularization. PLoS ONE, 2015, 10, e0138910.	1.1	27
95	Semi-Supervised Segmentation of Ultrasound Images Based on Patch Representation and Continuous Min Cut. PLoS ONE, 2014, 9, e100972.	1.1	32
96	Non-linear low-rank and sparse representation for hyperspectral image analysis. , 2014, , .		4
97	Ultrasound Fourier slice imaging: a novel approach for ultrafast imaging technique. , 2014, , .		14
98	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
99	Cardiac output measured by electrical impedance tomography: Applications and limitations. , 2014, , .		4
100	Crop backscatter modeling and soil moisture estimation with support vector regression. , 2014, , .		1
101	Efficient Total Variation Algorithm for Fetal Brain MRI Reconstruction. Lecture Notes in Computer Science, 2014, 17, 252-259.	1.0	5
102	Global Tractography with Embedded Anatomical Priors for Quantitative Connectivity Analysis. Frontiers in Neurology, 2014, 5, 232.	1.1	34
103	MBIS: Multivariate Bayesian Image Segmentation tool. Computer Methods and Programs in Biomedicine, 2014, 115, 76-94.	2.6	4
104	Sparse regularization for fiber ODF reconstruction: From the suboptimality of and priors to. Medical Image Analysis, 2014, 18, 820-833.	7.0	49
105	Resting-brain functional connectivity predicted by analytic measures of network communication. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 833-838.	3.3	530
106	Quantitative Comparison of Reconstruction Methods for Intra-Voxel Fiber Recovery From Diffusion MRI. IEEE Transactions on Medical Imaging, 2014, 33, 384-399.	5.4	145
107	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
108	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

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109	Tensor optimization for optical-interferometric imaging. Monthly Notices of the Royal Astronomical Society, 2014, 437, 2083-2091.	1.6	8
110	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
111	Surface Reconstruction From Microscopic Images in Optical Lithography. IEEE Transactions on Image Processing, 2014, 23, 3560-3573.	6.0	8
112	Harmonic Active Contours. IEEE Transactions on Image Processing, 2014, 23, 69-82.	6.0	22
113	Enhanced Compressed Sensing Recovery With Level Set Normals. IEEE Transactions on Image Processing, 2013, 22, 2611-2626.	6.0	68
114	Sparse Reverberant Audio Source Separation via Reweighted Analysis. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 1391-1402.	3.8	17
115	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
116	Tracking the source of cerebellar epilepsy: Hemifacial seizures associated with cerebellar cortical dysplasia. Epilepsy Research, 2013, 105, 245-249.	0.8	19
117	Semi-Supervised Novelty Detection Using SVM Entire Solution Path. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1939-1950.	2.7	34
118	Sparse Image Reconstruction on the Sphere: Implications of a New Sampling Theorem. IEEE Transactions on Image Processing, 2013, 22, 2275-2285.	6.0	17
119	Structural connectomics in brain diseases. NeuroImage, 2013, 80, 515-526.	2.1	286
120	Comparing connectomes across subjects and populations at different scales. NeuroImage, 2013, 80, 416-425.	2.1	65
121	Sparsity Averaging for Compressive Imaging. IEEE Signal Processing Letters, 2013, 20, 591-594.	2.1	60
122	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
123	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
124	Multi-scale community organization of the human structural connectome and its relationship with resting-state functional connectivity. Network Science, 2013, 1, 353-373.	0.8	104
125	A convex optimization framework for global tractography. , 2013, , .		17
126	Automatic prostate segmentation in cone-beam computed tomography images using rigid registration. , 2013, 2013, 3993-7.		3

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127	Improved local binary pattern based action unit detection using morphological and bilateral filters. , 2013, , .		4
128	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
129	A realistic Computed Tomography simulator for small motion analysis of cerebral aneurysms. , 2013, 2013, 5103-6.		1
130	A Connectome-Based Comparison of Diffusion MRI Schemes. PLoS ONE, 2013, 8, e75061.	1.1	21
131	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
132	Multiple Local Curvature Gabor Binary Patterns for Facial Action Recognition. Lecture Notes in Computer Science, 2013, , 136-147.	1.0	3
133	Reduced Fronto-Temporal and Limbic Connectivity in the 22q11.2 Deletion Syndrome: Vulnerability Markers for Developing Schizophrenia?. PLoS ONE, 2013, 8, e58429.	1.1	44
134	Evaluation of atlas fusion strategies for segmentation of head and neck lymph nodes for radiotherapy planning. , 2012, , .		1
135	Fast globally supervised segmentation by active contours with shape and texture descriptors. , 2012, , .		1
136	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
137	Efficient Algorithm for Level Set Method Preserving Distance Function. IEEE Transactions on Image Processing, 2012, 21, 4722-4734.	6.0	70
138	Binary Active Contours using both inside and outside texture descriptors. , 2012, , .		0
139	Unsupervised change detection via hierarchical support vector clustering. , 2012, , .		4
140	Semi-supervised and unsupervised novelty detection using nested support vector machines. , 2012, , .		1
141	Computing effective properties of random heterogeneous materials on heterogeneous parallel processors. Computer Physics Communications, 2012, 183, 2424-2433.	3.0	5
142	Multi-pose lipreading and audio-visual speech recognition. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.0	20
143	Structural and Resting State Functional Connectivity of the Subthalamic Nucleus: Identification of Motor STN Parts and the Hyperdirect Pathway. PLoS ONE, 2012, 7, e39061.	1.1	114
144	A new early and automated MRI-based predictor of motor improvement after stroke. Neurology, 2012, 79, 39-46.	1.5	49

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145	A multi-center study: Intra-scan and inter-scan variability of diffusion spectrum imaging. <i>NeuroImage</i> , 2012, 62, 87-94.	2.1	21
146	The Connectome Mapper: An Open-Source Processing Pipeline to Map Connectomes with MRI. <i>PLoS ONE</i> , 2012, 7, e48121.	1.1	248
147	Scale Invariant Feature Transform on the Sphere: Theory and Applications. <i>International Journal of Computer Vision</i> , 2012, 98, 217-241.	10.9	105
148	Mapping the human connectome at multiple scales with diffusion spectrum MRI. <i>Journal of Neuroscience Methods</i> , 2012, 203, 386-397.	1.3	413
149	High b-value diffusion-weighted imaging: A sensitive method to reveal white matter differences in schizophrenia. <i>Psychiatry Research - Neuroimaging</i> , 2012, 201, 144-151.	0.9	21
150	On Dynamic Stream Weighting for Audio-Visual Speech Recognition. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2012, 20, 1145-1157.	3.8	52
151	Spread Spectrum Magnetic Resonance Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 586-598.	5.4	86
152	Musical Audio Source Separation Based on User-Selected F0 Track. <i>Lecture Notes in Computer Science</i> , 2012, , 438-445.	1.0	29
153	Comparison of energy minimization methods for 3-D brain tissue classification. , 2011, , .		1
154	Harmonic active contours for multichannel image segmentation. , 2011, , .		2
155	Adaptive Strategy for the Statistical Analysis of Connectomes. <i>PLoS ONE</i> , 2011, 6, e23009.	1.1	39
156	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.	7.0	25
157	Geodesic Active Fieldsâ€”A Geometric Framework for Image Registration. <i>IEEE Transactions on Image Processing</i> , 2011, 20, 1300-1312.	6.0	28
158	Event-driven Scheduling for Parallel Stream Processing. , 2011, , .		3
159	Towards a diffusion image processing validation and accuracy prediction framework. , 2011, , .		0
160	Sparse non-negative decomposition of speech power spectra for formant tracking. , 2011, , .		5
161	Sampling theorems and compressive sensing on the sphere. <i>Proceedings of SPIE</i> , 2011, , .	0.8	4
162	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

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163	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, 90-96.	1.3	23
164	MR connectomics: Principles and challenges. <i>Journal of Neuroscience Methods</i> , 2010, 194, 34-45.	1.3	251
165	Information theoretic combination of pattern classifiers. <i>Pattern Recognition</i> , 2010, 43, 3412-3421.	5.1	33
166	JULIDE: A Software Tool for 3D Reconstruction and Statistical Analysis of Autoradiographic Mouse Brain Sections. <i>PLoS ONE</i> , 2010, 5, e14094.	1.1	5
167	Basic Concepts of Multimodal Analysis. , 2010, , 145-152.		1
168	Overcoming asynchrony in Audio-Visual Speech Recognition. , 2010, , .		1
169	Geodesic Active Fields on the Sphere. , 2010, , .		2
170	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
171	Geodesic Active Fieldsâ€”A Geometric Framework for Image Registration. , 2010, , .		1
172	Modality Integration Methods. , 2010, , 171-184.		0
173	Non-Euclidean image-adaptive Radial Basis Functions for 3D interactive segmentation. , 2009, , .		17
174	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
175	User-constrained guidewire localization in fluoroscopy. <i>Proceedings of SPIE</i> , 2009, , .	0.8	8
176	Segmentation of Head and Neck Lymph Node Regions for Radiotherapy Planning Using Active Contour-Based Atlas Registration. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2009, 3, 135-147.	7.3	49
177	Automatic quality assessment in structural brain magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 365-372.	1.9	151
178	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
179	Cooperative Object Segmentation and Behavior Inference in Image Sequences. <i>International Journal of Computer Vision</i> , 2009, 84, 146-162.	10.9	7
180	Congenital heart disease affects local gyrification in 22q11.2 deletion syndrome. <i>Developmental Medicine and Child Neurology</i> , 2009, 51, 746-753.	1.1	58

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181	Deviant trajectories of cortical maturation in 22q11.2 deletion syndrome (22q11DS): A cross-sectional and longitudinal study. Schizophrenia Research, 2009, 115, 182-190.	1.1	112
182	Information Theoretic Feature Extraction for Audio-Visual Speech Recognition. IEEE Transactions on Signal Processing, 2009, 57, 4765-4776.	3.2	51
183	A Scale-Space of Cortical Feature Maps. IEEE Signal Processing Letters, 2009, 16, 873-876.	2.1	4
184	Local landmark-based registration for fMRI group studies of nonprimary auditory cortex. NeuroImage, 2009, 44, 145-153.	2.1	14
185	Classification of tensors and fiber tracts using Mercer-kernels encoding soft probabilistic spatial and diffusion information. , 2009, , .		0
186	Semi-supervised Segmentation Based on Non-local Continuous Min-Cut. Lecture Notes in Computer Science, 2009, , 112-123.	1.0	18
187	A Surface-Based Approach to Quantify Local Cortical Gyrfication. IEEE Transactions on Medical Imaging, 2008, 27, 161-170.	5.4	470
188	CEC designer: Domain specific modelling for the industrial automation based on the IEC 61499 standard. , 2008, , .		2
189	Shape prior based on statistical map for active contour segmentation. , 2008, , .		8
190	Fast texture segmentation model based on the shape operator and active contour. , 2008, , .		51
191	Bi-planar 2D-to-3D registration in Fourier domain for stereoscopic x-ray motion tracking. Proceedings of SPIE, 2008, , .	0.8	5
192	Estimating the Confidence Level of White Matter Connections Obtained with MRI Tractography. PLoS ONE, 2008, 3, e4006.	1.1	25
193	Dynamic modality weighting for multi-stream hmms in audio-visual speech recognition. , 2008, , .		29
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