

GÃ¼zde Ã¼nal

List of Publications by Year in descending order

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122
papers

5,925
citations

331259

21
h-index

149479

56
g-index

125
all docs

125
docs citations

125
times ranked

6060
citing authors

#	ARTICLE	IF	CITATIONS
1	The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS). IEEE Transactions on Medical Imaging, 2015, 34, 1993-2024.	5.4	3,589
2	CHAOS Challenge - combined (CT-MR) healthy abdominal organ segmentation. Medical Image Analysis, 2021, 69, 101950.	7.0	309
3	Tumor-Cut: Segmentation of Brain Tumors on Contrast Enhanced MR Images for Radiosurgery Applications. IEEE Transactions on Medical Imaging, 2012, 31, 790-804.	5.4	216
4	Standardized evaluation framework for evaluating coronary artery stenosis detection, stenosis quantification and lumen segmentation algorithms in computed tomography angiography. Medical Image Analysis, 2013, 17, 859-876.	7.0	163
5	Shape-Driven Segmentation of the Arterial Wall in Intravascular Ultrasound Images. IEEE Transactions on Information Technology in Biomedicine, 2008, 12, 335-347.	3.6	115
6	Standardized evaluation methodology and reference database for evaluating IVUS image segmentation. Computerized Medical Imaging and Graphics, 2014, 38, 70-90.	3.5	105
7	Graph cuts segmentation using an elliptical shape prior. , 2005, , .		81
8	Plant Image Retrieval Using Color, Shape and Texture Features. Computer Journal, 2011, 54, 1475-1490.	1.5	70
9	Semi-automated detection of anterior cruciate ligament injury from MRI. Computer Methods and Programs in Biomedicine, 2017, 140, 151-164.	2.6	64
10	A Higher-Order Tensor Vessel Tractography for Segmentation of Vascular Structures. IEEE Transactions on Medical Imaging, 2015, 34, 2172-2185.	5.4	62
11	Vessel Tractography Using an Intensity Based Tensor Model With Branch Detection. IEEE Transactions on Medical Imaging, 2013, 32, 348-363.	5.4	60
12	Rethinking CNN-Based Pansharpening: Guided Colorization of Panchromatic Images via GANs. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3486-3501.	2.7	58
13	Information-Theoretic Active Polygons for Unsupervised Texture Segmentation. International Journal of Computer Vision, 2005, 62, 199-220.	10.9	57
14	A RNN based time series approach for forecasting turkish electricity load. , 2018, , .		53
15	Comparison of semi-automatic and deep learning-based automatic methods for liver segmentation in living liver transplant donors. Diagnostic and Interventional Radiology, 2020, 26, 11-21.	0.7	51
16	Semantic Segmentation with Extended DeepLabv3 Architecture. , 2019, , .		47
17	Unifying probabilistic and variational estimation. IEEE Signal Processing Magazine, 2002, 19, 37-47.	4.6	42
18	A Variational Approach to Problems in Calibration of Multiple Cameras. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1322-1338.	9.7	41

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19	Single-frame super resolution of remote-sensing images by convolutional neural networks. International Journal of Remote Sensing, 2018, 39, 2463-2479.	1.3	41
20	Statistical Region-Based Segmentation of Ultrasound Images. Ultrasound in Medicine and Biology, 2009, 35, 781-795.	0.7	39
21	Coupled PDEs for Non-Rigid Registration and Segmentation. , 0, , .		37
22	Stent implant follow-up in intravascular optical coherence tomography images. International Journal of Cardiovascular Imaging, 2010, 26, 809-816.	0.7	31
23	A New Approach for Improving Coronary Plaque Component Analysis Based on Intravascular Ultrasound Images. Ultrasound in Medicine and Biology, 2010, 36, 1245-1258.	0.7	31
24	Anncolvar: Approximation of Complex Collective Variables by Artificial Neural Networks for Analysis and Biasing of Molecular Simulations. Frontiers in Molecular Biosciences, 2019, 6, 25.	1.6	24
25	A New 3-D Automated Computational Method to Evaluate In-Stent Neointimal Hyperplasia in In-Vivo Intravascular Optical Coherence Tomography Pullbacks. Lecture Notes in Computer Science, 2009, 12, 776-785.	1.0	24
26	Ultrasound-Specific Segmentation via Decorrelation and Statistical Region-Based Active Contours. , 0, , .		23
27	Stochastic differential equations and geometric flows. IEEE Transactions on Image Processing, 2002, 11, 1405-1416.	6.0	21
28	Efficient segmentation based on Eikonal and diffusion equations. International Journal of Computer Mathematics, 2007, 84, 1309-1324.	1.0	21
29	An IVUS image-based approach for improvement of coronary plaque characterization. Computers in Biology and Medicine, 2013, 43, 268-280.	3.9	20
30	Restoration of error-diffused images using projection onto convex sets. IEEE Transactions on Image Processing, 2001, 10, 1836-1841.	6.0	19
31	Fast incorporation of optical flow into active polygons. IEEE Transactions on Image Processing, 2005, 14, 745-759.	6.0	18
32	Tetralogy of Fallot Surgical Repair: Shunt Configurations, Ductus Arteriosus and the Circle of Willis. Cardiovascular Engineering and Technology, 2017, 8, 107-119.	0.7	18
33	Cellular Automata Segmentation of Brain Tumors on Post Contrast MR Images. Lecture Notes in Computer Science, 2010, 13, 137-146.	1.0	17
34	Coupled Nonparametric Shape and Moment-Based Intershape Pose Priors for Multiple Basal Ganglia Structure Segmentation. IEEE Transactions on Medical Imaging, 2010, 29, 1959-1978.	5.4	16
35	Variational Guidewire Tracking Using Phase Congruency. , 2007, 10, 612-619.		15
36	Active Polyhedron: Surface Evolution Theory Applied to Deformable Meshes. , 0, , .		14

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37	Landmarks inside the shape: Shape matching using image descriptors. Pattern Recognition, 2016, 49, 79-88.	5.1	14
38	3D ball skinning using PDEs for generation of smooth tubular surfaces. CAD Computer Aided Design, 2010, 42, 18-26.	1.4	13
39	Semi-Automatic Lymph Node Segmentation in LN-MRI. , 2006, , .		12
40	REGISTRATION OF ULTRASOUND IMAGES USING AN INFORMATION-THEORETIC FEATURE DETECTOR. , 2007, , .		12
41	3-D shape modeling for hearing aid design [Applications Corner]. IEEE Signal Processing Magazine, 2008, 25, 98-102.	4.6	12
42	Template-based CTA to x-ray angio rigid registration of coronary arteries in frequency domain with automatic x-ray segmentation. Medical Physics, 2013, 40, 101903.	1.6	12
43	Targeted vessel reconstruction in non-contrast-enhanced steady-state free precession angiography. NMR in Biomedicine, 2016, 29, 532-544.	1.6	11
44	Approximate First Integrals of a Galaxy Model. Nonlinear Dynamics, 2002, 28, 195-211.	2.7	10
45	Pearling: Stroke segmentation with crusted pearl strings. Pattern Recognition and Image Analysis, 2009, 19, 277-283.	0.6	10
46	A vertex-based representation of objects in an image. , 0, , .		9
47	Information-Theoretic Feature Detection in Ultrasound Images. , 2006, 2006, 2638-42.		9
48	A new method for characterization of coronary plaque composition via IVUS images. , 2009, , .		9
49	Plant image retrieval using color and texture features. , 2009, , .		9
50	Asymmetric Orientation Distribution Functions (AODFs) revealing intravoxel geometry in diffusion MRI. Magnetic Resonance Imaging, 2018, 49, 145-158.	1.0	9
51	Bandlets on Oriented Graphs: Application to Medical Image Enhancement. IEEE Access, 2019, 7, 32589-32601.	2.6	9
52	A Variational Approach to the Evolution of Radial Basis Functions for Image Segmentation. , 2007, , .		8
53	Screened Poisson Hyperfields for Shape Coding. SIAM Journal on Imaging Sciences, 2014, 7, 2558-2590.	1.3	8
54	Manifold Learning for Image-Based Gating of Intravascular Ultrasound(IVUS) Pullback Sequences. Lecture Notes in Computer Science, 2010, , 139-148.	1.0	7

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55	Customized Design of Hearing Aids Using Statistical Shape Learning. Lecture Notes in Computer Science, 2008, 11, 518-526.	1.0	7
56	Semi-automatic matching of OCT and IVUS images for image fusion. Proceedings of SPIE, 2008, , .	0.8	6
57	Vessel Orientation Constrained Quantitative Susceptibility Mapping (QSM) Reconstruction. Lecture Notes in Computer Science, 2016, , 467-474.	1.0	6
58	Active polygon for object tracking. , 0, , .		4
59	Anatomically-Aware, Automatic, and Fast Registration of 3D Ear Impression Models. , 2006, , .		4
60	Interacting Active Rectangles for Estimation of Intervertebral Disk Orientation. , 2006, , .		4
61	Estimation of Vector Fields in Unconstrained and Inequality Constrained Variational Problems for Segmentation andÄRegistration. Journal of Mathematical Imaging and Vision, 2008, 31, 57-72.	0.8	4
62	Coupled nonparametric shape priors for segmentation of multiple basal ganglia structures. , 2008, , .		4
63	A Sobolev-type metric for polar active contours. , 2011, , .		4
64	Inpainting by deep autoencoders using an advisor network. , 2017, , .		4
65	Neighborhood resolved fiber orientation distributions (NRFOD) in automatic labeling of white matter fiber pathways. Medical Image Analysis, 2018, 46, 130-145.	7.0	4
66	Variational Skinning of an Ordered Set of Discrete 2D Balls. , 2008, , 450-461.		4
67	<title>Segmentation and target recognition in SAR imagery using a level-sets-multiscale-filtering technique</title>. , 2001, , .		3
68	A variational approach to problems in calibration of multiple cameras. , 0, , .		3
69	Generating shapes by analogies: An application to hearing aid design. CAD Computer Aided Design, 2011, 43, 47-56.	1.4	3
70	Inter-hemispheric atrophy better correlates with expert ratings than hemispheric cortical atrophy. , 2012, , .		3
71	Turkish lira banknotes classification using deep convolutional neural networks. , 2018, , .		3
72	Supervised Classification of White Matter Fibers Based on Neighborhood Fiber Orientation Distributions Using an Ensemble of Neural Networks. Mathematics and Visualization, 2019, , 143-154.	0.4	3

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73	DeshuffleGAN: A Self-Supervised GAN to Improve Structure Learning. , 2020, , .		3
74	ODFNet: Using orientation distribution functions to characterize 3D point clouds. Computers and Graphics, 2022, 102, 610-618.	1.4	3
75	Elucidating Intravoxel Geometry in Diffusion-MRI: Asymmetric Orientation Distribution Functions (AODFs) Revealed by a Cone Model. Lecture Notes in Computer Science, 2015, , 231-238.	1.0	3
76	Algorithms for stochastic approximations of curvature flows. , 0, , .		2
77	Efficient classification of scanned media using spatial statistics. , 0, , .		2
78	A Contour-Based Approach to 3D Text Labeling on Triangulated Surfaces. , 0, , .		2
79	An information-theoretic detector based scheme for registration of speckled medical images. , 2007, , .		2
80	segmentation of multiple brain structures using coupled nonparametric shape priors. , 2008, , .		2
81	Freeform shape clustering for customized design automation. , 2009, , .		2
82	Automatic registration of follow-up brain MRI scans. , 2009, , .		2
83	Nonparametric joint shape learning for customized shape modeling. Computerized Medical Imaging and Graphics, 2010, 34, 298-307.	3.5	2
84	Concordance between computer-based neuroimaging findings and expert assessments in dementia grading. , 2013, , .		2
85	Cerebral vessel classification with convolutional neural networks. , 2017, , .		2
86	The 19th International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI 2016). Medical Image Analysis, 2017, 41, 1.	7.0	2
87	Anatomical Landmark Based Registration of Contrast Enhanced T1-Weighted MR Images. Lecture Notes in Computer Science, 2010, , 91-103.	1.0	2
88	Semi-Automatic 3-D Segmentation of Anatomical Structures of Brain MRI Volumes using Graph Cuts. , 2006, , .		1
89	Volumetric segmentation of multiple basal ganglia structures using nonparametric coupled shape and inter-shape pose priors. , 2009, , .		1
90	EFFICIENT CLASSIFICATION OF SCANNED MEDIA USING SPATIAL STATISTICS. International Journal of Pattern Recognition and Artificial Intelligence, 2010, 24, 917-946.	0.7	1

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91	In-vivo Optical Coherence Tomography image analysis. , 2010, , .		1
92	Translation, Scale, and Deformation Weighted Polar Active Contours. Journal of Mathematical Imaging and Vision, 2012, 44, 354-365.	0.8	1
93	Registration of Brain Tumor Images Using Hyper-Elastic Regularization. , 2013, , 101-114.		1
94	Monoplane 3DÄ“2D registration of cerebral angiograms based on multi-objective stratified optimization. Physics in Medicine and Biology, 2017, 62, 9377-9394.	1.6	1
95	A convolutional neural networks oriented approach for voxel-based 3D object classification. , 2018, , .		1
96	Uncertainty-Based Dynamic Graph Neighborhoods for Medical Segmentation. Lecture Notes in Computer Science, 2021, , 255-265.	1.0	1
97	Synthesizing Point Cloud Data Set for Historical Dome Systems. Communications in Computer and Information Science, 2022, , 538-554.	0.4	1
98	QR-RLS algorithm for error diffusion of color images. Optical Engineering, 2000, 39, 2860.	0.5	0
99	<title>Object tracking in IR image sequences</title>. , 2003, , .		0
100	What color is it?. , 2005, 5667, 186.		0
101	Guest Editorial Introduction to the Special Section on Computer Vision for Intravascular and Intracardiac Imaging. IEEE Transactions on Information Technology in Biomedicine, 2008, 12, 273-276.	3.6	0
102	Guidewire tracking in x-ray videos of endovascular interventions. , 2008, , .		0
103	3-D statistical shape modeling and application to prototyping of hearing aids. , 2009, , .		0
104	Multi-object segmentation using coupled nonparametric shape and relative pose priors. , 2009, , .		0
105	IVUS-based histology of atherosclerotic plaques: improving longitudinal resolution. , 2010, , .		0
106	Image retrieval for identifying house plants. Proceedings of SPIE, 2010, , .	0.8	0
107	An automatic branch and stenoses detection in computed tomography angiography. , 2012, , .		0
108	Elliptic fourier features of brain white matter pathways. , 2012, , .		0

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109	Template-based CTA X-ray angio rigid registration of coronary arteries in frequency domain. Proceedings of SPIE, 2013, , .	0.8	0
110	Functionally weighted track density imaging. , 2013, , .		0
111	A cerebral blood vessels segmentation method using a flux based second order tensor model. , 2014, , .		0
112	Editorial note. Computerized Medical Imaging and Graphics, 2014, 38, 69.	3.5	0
113	Vessel tractography for magnetic particle imaging angiography. , 2015, , .		0
114	Shape deformation measures for white matter fibers. , 2016, , .		0
115	Adaptive reconstruction for vessel preservation in unenhanced MR angiography. , 2016, , .		0
116	Resolution enhancement of tri-stereo remote sensing images by super resolution methods. , 2016, , .		0
117	Guest editorial of the IJCARS MICCAI 2016 special issue. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1243-1244.	1.7	0
118	Classification of brain tissues as lesion or healthy by 3D convolutional neural networks. , 2017, , .		0
119	Efficient and Robust Segmentations Based on Eikonal and Diffusion PDEs. Lecture Notes in Computer Science, 2006, , 339-348.	1.0	0
120	Tuning Accuracy-Diversity Trade-off in Neural Network Ensemble via Novel Entropy Loss Function. , 2021, , .		0
121	On a Stochastic Model of Geometric Snakes. , 2006, , 161-174.		0
122	UGQE: Uncertainty Guided Query Expansion. Lecture Notes in Computer Science, 2022, , 109-120.	1.0	0