GÃ¶zde Ã¼nal

List of Publications by Year
in descending order

122 papers	5,925 citations	331670 21 h-index	149698 56 g-index
125 all docs	125 docs citations	125 times ranked	6060 citing authors

#	Article	IF	Citations
1	ODFNet: Using orientation distribution functions to characterize 3D point clouds. Computers and Graphics, 2022, 102, 610-618.	2.5	3
2	Synthesizing Point Cloud Data Set for Historical Dome Systems. Communications in Computer and Information Science, 2022, , 538-554.	0.5	1
3	UGQE: Uncertainty Guided Query Expansion. Lecture Notes in Computer Science, 2022, , 109-120.	1.3	0
4	Rethinking CNN-Based Pansharpening: Guided Colorization of Panchromatic Images via GANs. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3486-3501.	6.3	58
5	CHAOS Challenge - combined (CT-MR) healthy abdominal organ segmentation. Medical Image Analysis, 2021, 69, 101950.	11.6	309
6	Uncertainty-Based Dynamic Graph Neighborhoods for Medical Segmentation. Lecture Notes in Computer Science, 2021, , 255-265.	1.3	1
7	Tuning Accuracy-Diversity Trade-off in Neural Network Ensemble via Novel Entropy Loss Function. , 2021, , .		0
8	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.	1.5	51
9	Deshufflegan: A Self-Supervised Gan to Improve Structure Learning. , 2020, , .		3
10	Semantic Segmentation with Extended DeepLabv3 Architecture. , 2019, , .		47
11	Anncolvar: Approximation of Complex Collective Variables by Artificial Neural Networks for Analysis and Biasing of Molecular Simulations. Frontiers in Molecular Biosciences, 2019, 6, 25.	3.5	24
12	Supervised Classification of White Matter Fibers Based on Neighborhood Fiber Orientation Distributions Using an Ensemble of Neural Networks. Mathematics and Visualization, 2019, , 143-154.	0.6	3
13	Bandlets on Oriented Graphs: Application to Medical Image Enhancement. IEEE Access, 2019, 7, 32589-32601.	4.2	9
14	Neighborhood resolved fiber orientation distributions (NRFOD) in automatic labeling of white matter fiber pathways. Medical Image Analysis, 2018, 46, 130-145.	11.6	4
15	Single-frame super resolution of remote-sensing images by convolutional neural networks. International Journal of Remote Sensing, 2018, 39, 2463-2479.	2.9	41
16	Asymmetric Orientation Distribution Functions (AODFs) revealing intravoxel geometry in diffusion MRI. Magnetic Resonance Imaging, 2018, 49, 145-158.	1.8	9
17	A RNN based time series approach for forecasting turkish electricity load. , 2018, , .		53
18	A convolutional neural networks oriented approach for voxel-based 3D object classification. , 2018, , .		1

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19	Turkish lira banknotes classification using deep convolutional neural networks. , 2018, , .		3
20	Semi-automated detection of anterior cruciate ligament injury from MRI. Computer Methods and Programs in Biomedicine, 2017, 140, 151-164.	4.7	64
21	Tetralogy of Fallot Surgical Repair: Shunt Configurations, Ductus Arteriosus and the Circle of Willis. Cardiovascular Engineering and Technology, 2017, 8, 107-119.	1.6	18
22	Inpainting by deep autoencoders using an advisor network. , 2017, , .		4
23	Guest editorial of the IJCARS MICCAI 2016 special issue. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1243-1244.	2.8	0
24	Classification of brain tissues as lesion or healthy by 3D convolutional neural networks. , 2017, , .		0
25	Cerebral vessel classification with convolutional neural networks. , 2017, , .		2
26	The 19th International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI 2016). Medical Image Analysis, 2017, 41, 1.	11.6	2
27	Monoplane 3Dâ€“2D registration of cerebral angiograms based on multi-objective stratified optimization. Physics in Medicine and Biology, 2017, 62, 9377-9394.	3.0	1
28	Shape deformation measures for white matter fibers. , 2016, , .		0
29	Adaptive reconstruction for vessel preservation in unenhanced MR angiography. , 2016, , .		0
30	Resolution enhancement of tri-stereo remote sensing images by super resolution methods. , 2016, , .		0
31	Targeted vessel reconstruction in nonâ€contrastâ€enhanced steadyâ€state free precession angiography. NMR in Biomedicine, 2016, 29, 532-544.	2.8	11
32	Landmarks inside the shape: Shape matching using image descriptors. Pattern Recognition, 2016, 49, 79-88.	8.1	14
33	Vessel Orientation Constrained Quantitative Susceptibility Mapping (QSM) Reconstruction. Lecture Notes in Computer Science, 2016, , 467-474.	1.3	6
34	Vessel tractography for magnetic particle imaging angiography. , 2015, , .		0
35	The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS). IEEE Transactions on Medical Imaging, 2015, 34, 1993-2024.	8.9	3,589
36	A Higher-Order Tensor Vessel Tractography for Segmentation of Vascular Structures. IEEE Transactions on Medical Imaging, 2015, 34, 2172-2185.	8.9	62

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37	Elucidating Intravoxel Geometry in Diffusion-MRI: Asymmetric Orientation Distribution Functions (AODFs) Revealed by a Cone Model. Lecture Notes in Computer Science, 2015, , 231-238.	1.3	3
38	A cerebral blood vessels segmentation method using a flux based second order tensor model. , 2014, , .		0
39	Editorial note. Computerized Medical Imaging and Graphics, 2014, 38, 69.	5.8	0
40	Standardized evaluation methodology and reference database for evaluating IVUS image segmentation. Computerized Medical Imaging and Graphics, 2014, 38, 70-90.	5.8	105
41	Screened Poisson Hyperfields for Shape Coding. SIAM Journal on Imaging Sciences, 2014, 7, 2558-2590.	2.2	8
42	An IVUS image-based approach for improvement of coronary plaque characterization. Computers in Biology and Medicine, 2013, 43, 268-280.	7.0	20
43	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.	11.6	163
44	Vessel Tractography Using an Intensity Based Tensor Model With Branch Detection. IEEE Transactions on Medical Imaging, 2013, 32, 348-363.	8.9	60
45	Template-based CTA X-ray angio rigid registration of coronary arteries in frequency domain. Proceedings of SPIE, 2013, , .	0.8	0
46	Registration of Brain Tumor Images Using Hyper-Elastic Regularization. , 2013, , 101-114.		1
47	Functionally weighted track density imaging. , 2013, , .		0
48	Templateâ€based CTA to xâ€ray angio rigid registration of coronary arteries in frequency domain with automatic xâ€ray segmentation. Medical Physics, 2013, 40, 101903.	3.0	12
49	Concordance between computer-based neuroimaging findings and expert assessments in dementia grading. , 2013, , .		2
50	Inter-hemispheric atrophy better correlates with expert ratings than hemispheric cortical atrophy. , 2012, , .		3
51	An automatic branch and stenoses detection in computed tomography angiography. , 2012, , .		0
52	Translation, Scale, and Deformation Weighted Polar Active Contours. Journal of Mathematical Imaging and Vision, 2012, 44, 354-365.	1.3	1
53	Elliptic fourier features of brain white matter pathways. , 2012, , .		0
54	Tumor-Cut: Segmentation of Brain Tumors on Contrast Enhanced MR Images for Radiosurgery Applications. IEEE Transactions on Medical Imaging, 2012, 31, 790-804.	8.9	216

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55	A Sobolev-type metric for polar active contours. , 2011, , .		4
56	Generating shapes by analogies: An application to hearing aid design. CAD Computer Aided Design, 2011, 43, 47-56.	2.7	3
57	Plant Image Retrieval Using Color, Shape and Texture Features. Computer Journal, 2011, 54, 1475-1490.	2.4	70
58	IVUS-based histology of atherosclerotic plaques: improving longitudinal resolution. , 2010, , .		0
59	Nonparametric joint shape learning for customized shape modeling. Computerized Medical Imaging and Graphics, 2010, 34, 298-307.	5.8	2
60	Stent implant follow-up in intravascular optical coherence tomography images. International Journal of Cardiovascular Imaging, 2010, 26, 809-816.	1.5	31
61	Coupled Nonparametric Shape and Moment-Based Intershape Pose Priors for Multiple Basal Ganglia Structure Segmentation. IEEE Transactions on Medical Imaging, 2010, 29, 1959-1978.	8.9	16
62	3D ball skinning using PDEs for generation of smooth tubular surfaces. CAD Computer Aided Design, 2010, 42, 18-26.	2.7	13
63	A New Approach for Improving Coronary Plaque Component Analysis Based on Intravascular Ultrasound Images. Ultrasound in Medicine and Biology, 2010, 36, 1245-1258.	1.5	31
64	EFFICIENT CLASSIFICATION OF SCANNED MEDIA USING SPATIAL STATISTICS. International Journal of Pattern Recognition and Artificial Intelligence, 2010, 24, 917-946.	1.2	1
65	Image retrieval for identifying house plants. Proceedings of SPIE, 2010, , .	0.8	0
66	In-vivo Optical Coherence Tomography image analysis. , 2010, , .		1
67	Manifold Learning for Image-Based Gating of Intravascular Ultrasound(IVUS) Pullback Sequences. Lecture Notes in Computer Science, 2010, , 139-148.	1.3	7
68	Anatomical Landmark Based Registration of Contrast Enhanced T1-Weighted MR Images. Lecture Notes in Computer Science, 2010, , 91-103.	1.3	2
69	Cellular Automata Segmentation of Brain Tumors on Post Contrast MR Images. Lecture Notes in Computer Science, 2010, 13, 137-146.	1.3	17
70	A new method for characterization of coronary plaque composition via IVUS images. , 2009, , .		9
71	Volumetric segmentation of multiple basal ganglia structures using nonparametric coupled shape and inter-shape pose priors. , 2009, , .		1
72	Freeform shape clustering for customized design automation. , 2009, , .		2

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73	Statistical Region-Based Segmentation of Ultrasound Images. Ultrasound in Medicine and Biology, 2009, 35, 781-795.	1.5	39
74	Pearling: Stroke segmentation with crusted pearl strings. Pattern Recognition and Image Analysis, 2009, 19, 277-283.	1.0	10
75	Plant image retrieval using color and texture features. , 2009, , .		9
76	Automatic registration of follow-up brain MRI scans. , 2009, , .		2
77	3-D statistical shape modeling and application to prototyping of hearing aids. , 2009, , .		0
78	Multi-object segmentation using coupled nonparametric shape and relative pose priors. , 2009, , .		0
79	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.	1.3	24
80	Estimation of Vector Fields in Unconstrained and Inequality Constrained Variational Problems for Segmentation andÂRegistration. Journal of Mathematical Imaging and Vision, 2008, 31, 57-72.	1.3	4
81	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.	3.2	0
82	Shape-Driven Segmentation of the Arterial Wall in Intravascular Ultrasound Images. IEEE Transactions on Information Technology in Biomedicine, 2008, 12, 335-347.	3.2	115
83	3-D shape modeling for hearing aid design [Applications Corner]. IEEE Signal Processing Magazine, 2008, 25, 98-102.	5.6	12
84	segmentation of multiple brain structures using coupled nonparametric shape priors. , 2008, , .		2
85	Guidewire tracking in x-ray videos of endovascular interventions. , 2008, , .		0
86	Coupled nonparametric shape priors for segmentation of multiple basal ganglia structures. , 2008, , .		4
87	Semi-automatic matching of OCT and IVUS images for image fusion. Proceedings of SPIE, 2008, , .	0.8	6
88	Variational Skinning of an Ordered Set of Discrete 2D Balls. , 2008, , 450-461.		4
89	Customized Design of Hearing Aids Using Statistical Shape Learning. Lecture Notes in Computer Science, 2008, 11, 518-526.	1.3	7
90	REGISTRATION OF ULTRASOUND IMAGES USING AN INFORMATION-THEORETIC FEATURE DETECTOR. , 2007, , .		12

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91	An information-theoretic detector based scheme for registration of speckled medical images. , 2007, , .		2
92	A Variational Approach to Problems in Calibration of Multiple Cameras. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1322-1338.	13.9	41
93	Efficient segmentation based on Eikonal and diffusion equations. International Journal of Computer Mathematics, 2007, 84, 1309-1324.	1.8	21
94	A Variational Approach to the Evolution of Radial Basis Functions for Image Segmentation. , 2007, , .		8
95	Variational Guidewire Tracking Using Phase Congruency. , 2007, 10, 612-619.		15
96	Information-Theoretic Feature Detection in Ultrasound Images. , 2006, 2006, 2638-42.		9
97	Anatomically-Aware, Automatic, and Fast Registration of 3D Ear Impression Models. , 2006, , .		4
98	Interacting Active Rectangles for Estimation of Intervertebral Disk Orientation. , 2006, , .		4
99	Semi-Automatic 3-D Segmentation of Anatomical Structures of Brain MRI Volumes using Graph Cuts. , 2006, , .		1
100	Semi-Automatic Lymph Node Segmentation in LN-MRI. , 2006, , .		12
101	Efficient and Robust Segmentations Based on Eikonal and Diffusion PDEs. Lecture Notes in Computer Science, 2006, , 339-348.	1.3	0
102	On a Stochastic Model of Geometric Snakes. , 2006, , 161-174.		0
103	What color is it?. , 2005, 5667, 186.		0
104	Information-Theoretic Active Polygons for Unsupervised Texture Segmentation. International Journal of Computer Vision, 2005, 62, 199-220.	15.6	57
105	Graph cuts segmentation using an elliptical shape prior. , 2005, , .		81
106	Fast incorporation of optical flow into active polygons. IEEE Transactions on Image Processing, 2005, 14, 745-759.	9.8	18
107	<title>Object tracking in IR image sequences</title>. , 2003, , .		0
108	Unifying probabilistic and variational estimation. IEEE Signal Processing Magazine, 2002, 19, 37-47.	5.6	42

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109	Stochastic differential equations and geometric flows. IEEE Transactions on Image Processing, 2002, 11, 1405-1416.	9.8	21
110	Approximate First Integrals of a Galaxy Model. Nonlinear Dynamics, 2002, 28, 195-211.	5.2	10
111	<title>Segmentation and target recognition in SAR imagery using a level-sets-multiscale-filtering technique</title>. , 2001, , .		3
112	Restoration of error-diffused images using projection onto convex sets. IEEE Transactions on Image Processing, 2001, 10, 1836-1841.	9.8	19
113	QR-RLS algorithm for error diffusion of color images. Optical Engineering, 2000, 39, 2860.	1.0	0
114	Algorithms for stochastic approximations of curvature flows. , 0, , .		2
115	A vertex-based representation of objects in an image. , 0, , .		9
116	Active polygon for object tracking. , 0, , .		4
117	Efficient classification of scanned media using spatial statistics. , 0, , .		2
118	A variational approach to problems in calibration of multiple cameras. , 0, , .		3
119	Coupled PDEs for Non-Rigid Registration and Segmentation. , 0, , .		37
120	A Contour-Based Approach to 3D Text Labeling on Triangulated Surfaces. , 0, , .		2
121	Active Polyhedron: Surface Evolution Theory Applied to Deformable Meshes. , 0, , .		14
122	Ultrasound-Specific Segmentation via Decorrelation and Statistical Region-Based Active Contours. , 0, , .		23