Chunming Li

List of Publications by Year
in descending order

69 papers	7,797 citations	304743 22 h-index	189892 50 g-index
69 all docs	69 docs citations	69 times ranked	5500 citing authors

#	Article	IF	Citations
1	Distance Regularized Level Set Evolution and Its Application to Image Segmentation. IEEE Transactions on Image Processing, 2010, 19, 3243-3254.	9.8	1,744
2	Minimization of Region-Scalable Fitting Energy for Image Segmentation. IEEE Transactions on Image Processing, 2008, 17, 1940-1949.	9.8	1,442
3	A Level Set Method for Image Segmentation in the Presence of Intensity Inhomogeneities With Application to MRI. IEEE Transactions on Image Processing, 2011, 20, 2007-2016.	9.8	1,014
4	Implicit Active Contours Driven by Local Binary Fitting Energy. , 2007, , .		581
5	Level Set Evolution without Re-Initialization: A New Variational Formulation. , 0, , .		555
6	Active contours driven by local Gaussian distribution fitting energy. Signal Processing, 2009, 89, 2435-2447.	3.7	463
7	Active contours driven by local and global intensity fitting energy with application to brain MR image segmentation. Computerized Medical Imaging and Graphics, 2009, 33, 520-531.	5.8	362
8	Multiplicative intrinsic component optimization (MICO) for MRI bias field estimation and tissue segmentation. Magnetic Resonance Imaging, 2014, 32, 913-923.	1.8	318
9	MRI Tissue Classification and Bias Field Estimation Based on Coherent Local Intensity Clustering: A Unified Energy Minimization Framework. Lecture Notes in Computer Science, 2009, 21, 288-299.	1.3	97
10	A Variational Level Set Approach to Segmentation and Bias Correction of Images with Intensity Inhomogeneity. Lecture Notes in Computer Science, 2008, 11, 1083-1091.	1.3	96
11	Segmentation of external force field for automatic initialization and splitting of snakes. Pattern Recognition, 2005, 38, 1947-1960.	8.1	91
12	Prediction of Sarcomere Mutations in Subclinical Hypertrophic Cardiomyopathy. Circulation: Cardiovascular Imaging, 2014, 7, 863-871.	2.6	80
13	Radiomic signature as a predictive factor for lymph node metastasis in early‐stage cervical cancer. Journal of Magnetic Resonance Imaging, 2019, 49, 304-310.	3.4	75
14	Abnormal Cardiac Formation in Hypertrophic Cardiomyopathy. Circulation: Cardiovascular Genetics, 2014, 7, 241-248.	5.1	74
15	Distance regularized two level sets for segmentation of left and right ventricles from cine-MRI. Magnetic Resonance Imaging, 2016, 34, 699-706.	1.8	66
16	Novel radiomic signature as a prognostic biomarker for locally advanced rectal cancer. Journal of Magnetic Resonance Imaging, 2018, 48, 605-614.	3.4	61
17	A deep learning framework for pancreas segmentation with multi-atlas registration and 3D level-set. Medical Image Analysis, 2021, 68, 101884.	11.6	53
18	A robust parametric method for bias field estimation and segmentation of MR images. , 2009, , .		51

#	Article	IF	Citations
19	Fractal Analysis of Myocardial Trabeculations in 2547 Study Participants: Multi-Ethnic Study of Atherosclerosis. Radiology, 2015, 277, 707-715.	7.3	50
20	Split Bregman Method for Minimization of Region-Scalable Fitting Energy for Image Segmentation. Lecture Notes in Computer Science, 2010, , 117-128.	1.3	41
21	Multiphase Soft Segmentation with Total Variation and H 1 Regularization. Journal of Mathematical Imaging and Vision, 2010, 37, 98-111.	1.3	37
22	Segmentation of Edge Preserving Gradient Vector Flow: An Approach Toward Automatically Initializing and Splitting of Snakes. , 0, , .		33
23	Fractal frontiers in cardiovascular magnetic resonance: towards clinical implementation. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 80.	3.3	33
24	Simultaneous extraction of endocardial and epicardial contours of the left ventricle by distance regularized level sets. Medical Physics, 2016, 43, 2741-2755.	3.0	31
25	Variational Fuzzy Mumford–Shah Model for Image Segmentation. SIAM Journal on Applied Mathematics, 2010, 70, 2750-2770.	1.8	29
26	Medical image segmentation based on level set and isoperimetric constraint. Physica Medica, 2017, 42, 162-173.	0.7	29
27	Non-locally regularized segmentation of multiple sclerosis lesion from multi-channel MRI data. Magnetic Resonance Imaging, 2014, 32, 1058-1066.	1.8	21
28	Segmentation of the Left Ventricle Using Distance Regularized Two-Layer Level Set Approach. Lecture Notes in Computer Science, 2013, 16, 477-484.	1.3	21
29	Segmentation of prostate from ultrasound images using level sets on active band and intensity variation across edges. Medical Physics, 2016, 43, 3090-3103.	3.0	20
30	A level set method for multiple sclerosis lesion segmentation. Magnetic Resonance Imaging, 2018, 49, 94-100.	1.8	19
31	Maximal Wall Thickness Measurement in Hypertrophic Cardiomyopathy. JACC: Cardiovascular Imaging, 2021, 14, 2123-2134.	5.3	18
32	Brain MR Image Segmentation Using Local and Global Intensity Fitting Active Contours/Surfaces. Lecture Notes in Computer Science, 2008, 11, 384-392.	1.3	16
33	Community delivery of semiautomated fractal analysis tool in cardiac mr for trabecular phenotyping. Journal of Magnetic Resonance Imaging, 2017, 46, 1082-1088.	3.4	15
34	An energy minimization method for MS lesion segmentation from T1-w and FLAIR images. Magnetic Resonance Imaging, 2017, 39, 1-6.	1.8	14
35	Learning Complex Spatio-Temporal Configurations of Body Joints for Online Activity Recognition. IEEE Transactions on Human-Machine Systems, 2018, 48, 637-647.	3.5	14
36	Level set framework with transcendental constraint for robust and fast image segmentation. Pattern Recognition, 2021, 117, 107985.	8.1	14

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37	Convexity preserving level set for left ventricle segmentation. Magnetic Resonance Imaging, 2021, 78, 109-118.	1.8	11
38	A level set method for cupping artifact correction in cone‑beam CT. Medical Physics, 2015, 42, 4888-4895.	3.0	10
39	A level set method for convexity preserving segmentation of cardiac left ventricle. , 2017, , .		9
40	Renal Parenchymal Area Growth Curves for Children 0 to 10 Months Old. Journal of Urology, 2016, 195, 1203-1208.	0.4	8
41	A novel level set method for segmentation of left and right ventricles from cardiac MR images. , 2014, 2014, 4719-22.		7
42	An Efficient Method for Euler's Elastica Based Image Deconvolution. IEEE Access, 2019, 7, 61226-61239.	4.2	7
43	Progressive Label Fusion Framework for Multi-atlas Segmentation by Dictionary Evolution. Lecture Notes in Computer Science, 2015, 9351, 190-197.	1.3	7
44	Level set framework of multi-atlas label fusion with applications to magnetic resonance imaging segmentation of brain region of interests and cardiac left ventricles. Digital Medicine, 2017, 3, 76.	0.1	7
45	Level Set Segmentation Based on Local Gaussian Distribution Fitting. Lecture Notes in Computer Science, 2010, , 293-302.	1.3	6
46	A modified level set algorithm based on point distance shape constraint for lesion and organ segmentation. Physica Medica, 2019, 57, 123-136.	0.7	6
47	Segmentation of renal parenchymal area from ultrasoundl images using level set evolution. , 2014, 2014, 4703-6.		5
48	Fast and Adaptive Boosting Techniques for Variational Based Image Restoration. IEEE Access, 2019, 7, 181491-181504.	4.2	5
49	An Improved Level Set Method for Segmentation of Renal Parenchymal Area from Ultrasound Images. Journal of Medical Imaging and Health Informatics, 2015, 5, 1533-1536.	0.3	4
50	A Level Set Method for Gland Segmentation. , 2017, , .		4
51	Contrast Constrained Local Binary Fitting for Image Segmentation. Lecture Notes in Computer Science, 2009, , 886-895.	1.3	4
52	Anatomical knowledge based level set segmentation of cardiac ventricles from MRI. Magnetic Resonance Imaging, 2022, 86, 135-148.	1.8	3
53	Image segmentation with simultaneous illumination and reflectance estimation: An energy minimization approach. , 2009, , .		2
54	CMR trabecular fractal analysis - technical development of a measurement system. Journal of Cardiovascular Magnetic Resonance, 2014, 16, P51.	3.3	2

#	ARTICLE	IF	CITATIONS
55	126â€…Advanced Assessment of Cardiac Morphology and Prediction of Gene Carriage by CMR in Hypertrophic Cardiomyopathy - The HCMNET/UCL Collaboration. Heart, 2014, 100, A72-A73.	2.9	2
56	Simultaneous Detection and Segmentation of Cell Nuclei based on Convolutional Neural Network. , 2018, , .		2
57	Shape Analysis of Open Curves in â„3 with Applications to Study of Fiber Tracts in DT-MRI Data. Lecture Notes in Computer Science, 2007, , 399-413.	1.3	2
58	Narrow band region-scalable fitting model for image segmentation in the presence of intensity inhomogeneities. , 2011, , .		1
59	Advanced assessment of cardiac morphology and prediction of gene carriage by CMR in hypertrophic cardiomyopathy - the HCMNet/UCL collaboration. Journal of Cardiovascular Magnetic Resonance, 2014, 16, O30.	3.3	1
60	A Fast Convexity Preserving Level Set Method for Segmentation of Cardiac Left Ventricle. , 2018, , .		1
61	A Robust Energy Minimization Algorithm for MS-Lesion Segmentation. Lecture Notes in Computer Science, 2015, 9474, 521-530.	1.3	1
62	IFOC: Intensity Fitting on Overlapping Cover for Image Segmentation. Lecture Notes in Computer Science, 2019, , 576-585.	1.3	1
63	Dental pulp segmentation from cone-beam computed tomography images. , 2020, , .		1
64	Spin fusion ultrasound imaging. , 0, , .		0
65	A higher-order-statistics-based approach to face detection. , 2005, , .		0
66	Automatic Segmentation of White Matter Lesion from Multi-channel MRI Data Based on Energy Minimization. , 2013, , .		0
67	Heart Modeling by Convexity Preserving Segmentation and Convex Shape Decomposition. Lecture Notes in Computer Science, 2018, , 34-43.	1.3	0
68	Impact of the Number of Atlases in a Level Set Formulation of Multi-atlas Segmentation. Lecture Notes in Computer Science, 2015, , 531-537.	1.3	0
69	A multiphase level set method for stroke lesion segmentation. , 2020, , .		0