

Xiaoping Yang

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,081
citations

623734

14
h-index

414414

32
g-index

40
all docs

40
docs citations

40
times ranked

860
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong unique continuation property for a class of fourth order elliptic equations with strongly singular potentials. <i>Science China Mathematics</i> , 2022, 65, 707-730.	1.7	1
2	AbdomenCT-1K: Is Abdominal Organ Segmentation a Solved Problem?. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2022, 44, 6695-6714.	13.9	101
3	Head and neck tumor segmentation in PET/CT: The HECKTOR challenge. <i>Medical Image Analysis</i> , 2022, 77, 102336.	11.6	114
4	Measure upper bounds for nodal sets of eigenfunctions of the bi-harmonic operator. <i>Journal of the London Mathematical Society</i> , 2022, 105, 1936-1973.	1.0	1
5	Learning Geodesic Active Contours for Embedding Object Global Information in Segmentation CNNs. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 93-104.	8.9	34
6	Equilibrium pricing of foreign exchange options under a discontinuous model with stochastic jump intensity. <i>Communications in Statistics - Theory and Methods</i> , 2021, 50, 1059-1081.	1.0	0
7	A Characteristic Function-Based Algorithm for Geodesic Active Contours. <i>SIAM Journal on Imaging Sciences</i> , 2021, 14, 1184-1205.	2.2	18
8	Toward data-efficient learning: A benchmark for COVID-19 CT lung and infection segmentation. <i>Medical Physics</i> , 2021, 48, 1197-1210.	3.0	155
9	Deformable Image Registration Based on Functions of Bounded Generalized Deformation. <i>International Journal of Computer Vision</i> , 2021, 129, 1341-1358.	15.6	2
10	Critical points and level sets of Grushin-Harmonic functions in the plane. <i>Journal D'Analyse Mathematique</i> , 2021, 143, 435-460.	0.8	1
11	A Variational Model for Deformable Registration of Uni-modal Medical Images with Intensity Biases. <i>Journal of Mathematical Imaging and Vision</i> , 2021, 63, 1057-1068.	1.3	1
12	Loss odyssey in medical image segmentation. <i>Medical Image Analysis</i> , 2021, 71, 102035.	11.6	240
13	Comparing methods of detecting and segmenting unruptured intracranial aneurysms on TOF-MRAS: The ADAM challenge. <i>NeuroImage</i> , 2021, 238, 118216.	4.2	26
14	Shape prior generation and geodesic active contour interactive iterating algorithm (SPACIAL): fully automatic segmentation for 3D lumen in intravascular optical coherence tomography images. <i>Medical Physics</i> , 2021, 48, 7099-7111.	3.0	2
15	Dynamic MR image reconstruction based on total generalized variation and low-rank decomposition. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2064-2076.	3.0	14
16	A Three-Stage Variational Image Segmentation Framework Incorporating Intensity Inhomogeneity Information. <i>SIAM Journal on Imaging Sciences</i> , 2020, 13, 1692-1715.	2.2	12
17	Segmentation of the Common Carotid Intima-Media Complex in Ultrasound Images Using 2-D Continuous Max-Flow and Stacked Sparse Auto-encoder. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 3104-3124.	1.5	11
18	Region intensity complexity active contours. <i>Multidimensional Systems and Signal Processing</i> , 2020, 31, 1185-1206.	2.6	5

#	ARTICLE	IF	CITATIONS
19	An efficient fusion algorithm combining feature extraction and variational optimization for CT and MR images. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 139-150.	1.9	6
20	Active contour regularized semi-supervised learning for COVID-19 CT infection segmentation with limited annotations. <i>Physics in Medicine and Biology</i> , 2020, 65, 225034.	3.0	22
21	A Novel Total Generalized Variation Model for Image Dehazing. <i>Journal of Mathematical Imaging and Vision</i> , 2019, 61, 1329-1341.	1.3	12
22	Infimal convolution type regularization of TGV and shearlet transform for image restoration. <i>Computer Vision and Image Understanding</i> , 2019, 182, 38-49.	4.7	7
23	A modified level set algorithm based on point distance shape constraint for lesion and organ segmentation. <i>Physica Medica</i> , 2019, 57, 123-136.	0.7	6
24	Deformable Image Registration Using Functions of Bounded Deformation. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1488-1500.	8.9	15
25	The polynomial growth solutions to some sub-elliptic equations on the Heisenberg group. <i>Communications in Contemporary Mathematics</i> , 2019, 21, 1750069.	1.2	1
26	TGV-based multiplicative noise removal approach: Models and algorithms. <i>Journal of Inverse and Ill-Posed Problems</i> , 2018, 26, 703-727.	1.0	4
27	Global existence and finite time blow-up for a parabolic system on hyperbolic space. <i>Journal of Mathematical Physics</i> , 2018, 59, 011505.	1.1	1
28	Total generalized variation restoration with non-quadratic fidelity. <i>Multidimensional Systems and Signal Processing</i> , 2018, 29, 1459-1484.	2.6	28
29	An integrated method for atherosclerotic carotid plaque segmentation in ultrasound image. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 153, 19-32.	4.7	37
30	Variational image fusion approach based on TGV and local information. <i>IET Computer Vision</i> , 2018, 12, 535-541.	2.0	7
31	Integrating Compact Constraint and Distance Regularization with Level Set for Hepatocellular Carcinoma (HCC) Segmentation on Computed Tomography (CT) Images. <i>Sensing and Imaging</i> , 2017, 18, 1.	1.5	3
32	Medical image segmentation based on level set and isoperimetric constraint. <i>Physica Medica</i> , 2017, 42, 162-173.	0.7	29
33	Quantitative Evaluation of Temporal Regularizers in Compressed Sensing Dynamic Contrast Enhanced MRI of the Breast. <i>International Journal of Biomedical Imaging</i> , 2017, 2017, 1-11.	3.9	10
34	Nodal sets and horizontal singular sets of $\hat{\Delta}_\mu$ -harmonic functions on the Heisenberg group. <i>Communications in Contemporary Mathematics</i> , 2014, 16, 1350049.	1.2	4
35	Ultrasound kidney segmentation with a global prior shape. <i>Journal of Visual Communication and Image Representation</i> , 2013, 24, 937-943.	2.8	28
36	Fast reduction of speckle noise in real ultrasound images. <i>Signal Processing</i> , 2013, 93, 684-694.	3.7	36

#	ARTICLE	IF	CITATIONS
37	A Variational Model to Remove the Multiplicative Noise in Ultrasound Images. Journal of Mathematical Imaging and Vision, 2011, 39, 62-74.	1.3	82
38	A fast algorithm for global minimization of maximum likelihood based on ultrasound image segmentation. Inverse Problems and Imaging, 2011, 5, 645-657.	1.1	5
39	Splitting proximate algorithm for deformable image registration based on functions of bounded deformation. Medical Physics, 0, , .	3.0	0