

Xiaoyin Xu

List of Publications by Year in descending order

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44
papers

837
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686830

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docs citations

44
times ranked

1327
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensory-Related Neural Activity Regulates the Structure of Vascular Networks in the Cerebral Cortex. <i>Neuron</i> , 2014, 83, 1117-1130.	3.8	131
2	A New Iterative Triclass Thresholding Technique in Image Segmentation. <i>IEEE Transactions on Image Processing</i> , 2014, 23, 1038-1046.	6.0	118
3	Deep Transfer Learning and Radiomics Feature Prediction of Survival of Patients with High-Grade Gliomas. <i>American Journal of Neuroradiology</i> , 2020, 41, 40-48.	1.2	73
4	Deep Learning Detection of Cancer Metastases to the Brain on MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 1227-1236.	1.9	71
5	Robust 3D reconstruction and identification of dendritic spines from optical microscopy imaging. <i>Medical Image Analysis</i> , 2009, 13, 167-179.	7.0	58
6	Repulsive force based snake model to segment and track neuronal axons in 3D microscopy image stacks. <i>NeuroImage</i> , 2006, 32, 1608-1620.	2.1	50
7	Phenotypic analysis of images of zebrafish treated with Alzheimer's β -secretase inhibitors. <i>BMC Biotechnology</i> , 2010, 10, 24.	1.7	35
8	In vivo Fluorescence Imaging of Muscle Cell Regeneration by Transplanted EGFP-labeled Myoblasts. <i>Molecular Therapy</i> , 2010, 18, 835-842.	3.7	29
9	Using nonlinear diffusion and mean shift to detect and connect cross-sections of axons in 3D optical microscopy images. <i>Medical Image Analysis</i> , 2008, 12, 666-675.	7.0	23
10	A High-Throughput Analysis Method to Detect Regions of Interest and Quantify Zebrafish Embryo Images. <i>Journal of Biomolecular Screening</i> , 2010, 15, 1152-1159.	2.6	19
11	A Robust Parameter-Free Thresholding Method for Image Segmentation. <i>IEEE Access</i> , 2019, 7, 3448-3458.	2.6	19
12	Automated analysis of zebrafish images for phenotypic changes in drug discovery. <i>Journal of Neuroscience Methods</i> , 2011, 200, 229-236.	1.3	16
13	Effective image noise removal based on difference eigenvalue. , 2011, , .		15
14	Automated high-content morphological analysis of muscle fiber histology. <i>Computers in Biology and Medicine</i> , 2015, 63, 28-35.	3.9	15
15	Options for tracking GFP-Labeled transplanted myoblasts using in vivo fluorescence imaging: implications for tracking stem cell fate. <i>BMC Biotechnology</i> , 2014, 14, 55.	1.7	14
16	A retrospective study analyzing missed diagnosis of lung metastases at their early stages on computed tomography. <i>Journal of Thoracic Disease</i> , 2019, 11, 3360-3368.	0.6	13
17	A neural network approach to segment brain blood vessels in digital subtraction angiography. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 185, 105159.	2.6	13
18	Computational techniques in zebrafish image processing and analysis. <i>Journal of Neuroscience Methods</i> , 2013, 213, 6-13.	1.3	11

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19	A novel method for identifying a graph-based representation of 3-D microvascular networks from fluorescence microscopy image stacks. <i>Medical Image Analysis</i> , 2015, 20, 208-223.	7.0	11
20	Estimation of Split Renal Function With ^{99m} Tc-DMSA SPECT: Comparison Between 3D Volumetric Assessment and 2D Coronal Projection Imaging. <i>American Journal of Roentgenology</i> , 2016, 207, 1324-1328.	1.0	11
21	A new design in iterative image deblurring for improved robustness and performance. <i>Pattern Recognition</i> , 2019, 90, 134-146.	5.1	11
22	Optical microscopic image processing of dendritic spines morphology. <i>IEEE Signal Processing Magazine</i> , 2006, 23, 132-135.	4.6	10
23	Classification and Uncertainty Visualization of Dendritic Spines from Optical Microscopy Imaging. <i>Computer Graphics Forum</i> , 2008, 27, 879-886.	1.8	10
24	A new framework of designing iterative techniques for image deblurring. <i>Pattern Recognition</i> , 2022, 124, 108463.	5.1	9
25	LED Phototherapy with Gelatin Sponge Promotes Wound Healing in Mice. <i>Photochemistry and Photobiology</i> , 2018, 94, 179-185.	1.3	8
26	Quantification of retinal blood leakage in fundus fluorescein angiography in a retinal angiogenesis model. <i>Scientific Reports</i> , 2021, 11, 19903.	1.6	7
27	Shape-Constrained Repulsive Snake Method to Segment and Track Neurons in 3D Microscopy Images. , 0, , .		6
28	Joint volumetric extraction and enhancement of vasculature from low-SNR 3-D fluorescence microscopy images. <i>Pattern Recognition</i> , 2017, 63, 710-718.	5.1	6
29	A neural network approach to analyze cross-sections of muscle fibers in pathological images. <i>Computers in Biology and Medicine</i> , 2019, 104, 97-104.	3.9	6
30	An image processing approach to analyze morphological features of microscopic images of muscle fibers. <i>Computerized Medical Imaging and Graphics</i> , 2014, 38, 803-814.	3.5	5
31	Using feature points and angles between them to recognise facial expression by a neural network approach. <i>IET Image Processing</i> , 2018, 12, 1951-1955.	1.4	5
32	A Comparative Retrospective Study of Immunotherapy RANO Versus Standard RANO Criteria in Glioblastoma Patients Receiving Immune Checkpoint Inhibitor Therapy. <i>Frontiers in Oncology</i> , 2021, 11, 679331.	1.3	4
33	A computer-based system to analyze neuron images. , 0, , .		2
34	A case report of primary anaplastic large cell lymphoma arising from the trachea. <i>Translational Cancer Research</i> , 2019, 8, 699-704.	0.4	2
35	A computational approach to detect and segment cytoplasm in muscle fiber images. <i>Microscopy Research and Technique</i> , 2015, 78, 508-518.	1.2	1
36	Segment and track neurons in 3D by repulsive snake method. , 2005, , .		0

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37	Feature-based image analysis of zebrafish embryonic images. Proceedings of SPIE, 2009, , .	0.8	0
38	Optimized 3D stitching algorithm for whole body SPECT based on transition error minimization (TEM). , 2017, , .		0
39	OTHR-13. A DEEP LEARNING APPROACH TO DETECT CANCER METASTASES TO THE BRAIN IN MRI. Neuro-Oncology Advances, 2019, 1, i20-i21.	0.4	0
40	Cortical Morphometry Analysis Based on Worst Transportation Theory. Lecture Notes in Computer Science, 2021, 12729, 163-176.	1.0	0
41	Gland context networks: a novel approach for improving prostate cancer identification. Computerized Medical Imaging and Graphics, 2021, 94, 101999.	3.5	0
42	DICOM image quantification secondary capture (DICOM IQSC) integrated with numeric results, regions, and curves: implementation and applications in nuclear medicine. , 2017, , .		0
43	Quantitative assessment of pulmonary function in lymphangiomyomatosis patients using high-resolution computed tomography and pulmonary function tests. Journal of Thoracic Disease, 2020, 12, 6466-6475.	0.6	0
44	Cortical Surface Shape Analysis Based on Alexandrov Polyhedra. , 2021, 2021, 14224-14232.		0