

Jianming Liang

List of Publications by Year in descending order

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62
papers

9,591
citations

201385

27
h-index

174990

52
g-index

65
all docs

65
docs citations

65
times ranked

9264
citing authors

#	ARTICLE	IF	CITATIONS
1	Models Genesis. Medical Image Analysis, 2021, 67, 101840.	7.0	132
2	Seeking an Optimal Approach for Computer-Aided Pulmonary Embolism Detection. Lecture Notes in Computer Science, 2021, , 692-702.	1.0	6
3	A Systematic Benchmarking Analysis of Transfer Learning for Medical Image Analysis. Lecture Notes in Computer Science, 2021, , 3-13.	1.0	22
4	Active, continual fine tuning of convolutional neural networks for reducing annotation efforts. Medical Image Analysis, 2021, 71, 101997.	7.0	26
5	Guest Editorial Annotation-Efficient Deep Learning: The Holy Grail of Medical Imaging. IEEE Transactions on Medical Imaging, 2021, 40, 2526-2533.	5.4	10
6	Transferable Visual Words: Exploiting the Semantics of Anatomical Patterns for Self-Supervised Learning. IEEE Transactions on Medical Imaging, 2021, 40, 2857-2868.	5.4	49
7	GSV2SVF-an interactive GIS tool for sky, tree and building view factor estimation from street view photographs. Building and Environment, 2020, 168, 106475.	3.0	28
8	UNet++: Redesigning Skip Connections to Exploit Multiscale Features in Image Segmentation. IEEE Transactions on Medical Imaging, 2020, 39, 1856-1867.	5.4	1,697
9	Solar3D: An Open-Source Tool for Estimating Solar Radiation in Urban Environments. ISPRS International Journal of Geo-Information, 2020, 9, 524.	1.4	9
10	Analyzing the Influence of Urban Street Greening and Street Buildings on Summertime Air Pollution Based on Street View Image Data. ISPRS International Journal of Geo-Information, 2020, 9, 500.	1.4	25
11	Learning Semantics-Enriched Representation via Self-discovery, Self-classification, and Self-restoration. Lecture Notes in Computer Science, 2020, , 137-147.	1.0	34
12	Parts2Whole: Self-supervised Contrastive Learning via Reconstruction. Lecture Notes in Computer Science, 2020, , 85-95.	1.0	9
13	Computer-aided detection and visualization of pulmonary embolism using a novel, compact, and discriminative image representation. Medical Image Analysis, 2019, 58, 101541.	7.0	33
14	Atmospheric Methane Emissions Correlate With Natural Gas Consumption From Residential and Commercial Sectors in Los Angeles. Geophysical Research Letters, 2019, 46, 8563-8571.	1.5	32
15	Analysis of PM2.5 pollution episodes in Beijing from 2014 to 2017: Classification, interannual variations and associations with meteorological features. Atmospheric Environment, 2019, 213, 384-394.	1.9	31
16	Learning Fixed Points in Generative Adversarial Networks: From Image-to-Image Translation to Disease Detection and Localization. , 2019, 2019, 191-200.		54
17	Integrating Active Learning and Transfer Learning for Carotid Intima-Media Thickness Video Interpretation. Journal of Digital Imaging, 2019, 32, 290-299.	1.6	20
18	Synthesis of Urban CO ₂ Emission Estimates from Multiple Methods from the Indianapolis Flux Project (INFLUX). Environmental Science & Technology, 2019, 53, 287-295.	4.6	50

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19	Models Genesis: Generic Autodidactic Models for 3D Medical Image Analysis. Lecture Notes in Computer Science, 2019, 11767, 384-393.	1.0	150
20	Winter wheat mapping using a random forest classifier combined with multi-temporal and multi-sensor data. International Journal of Digital Earth, 2018, 11, 783-802.	1.6	39
21	Southern California megacity CO ₂ , CH ₄ , and CO flux estimates using ground- and space-based remote sensing and a Lagrangian model. Atmospheric Chemistry and Physics, 2018, 18, 16271-16291.	1.9	56
22	UNet++: A Nested U-Net Architecture for Medical Image Segmentation. Lecture Notes in Computer Science, 2018, 11045, 3-11.	1.0	2,913
23	Introduction to the Special Issue: "State-of-the-Art Virtual/Augmented Reality and 3D Modeling Techniques for Virtual Urban Geographic Experiments" ISPRS International Journal of Geo-Information, 2018, 7, 366.	1.4	0
24	Applications and impacts of Google Earth: A decadal review (2006-2016). ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 146, 91-107.	4.9	69
25	A Heterogeneous Distributed Virtual Geographic Environment's Potential Application in Spatiotemporal Behavior Experiments. ISPRS International Journal of Geo-Information, 2018, 7, 54.	1.4	9
26	Social Force Model-Based Group Behavior Simulation in Virtual Geographic Environments. ISPRS International Journal of Geo-Information, 2018, 7, 79.	1.4	37
27	Embedding user-generated content into oblique airborne photogrammetry-based 3D city model. International Journal of Geographical Information Science, 2017, 31, 1-16.	2.2	22
28	Comparative Validation of Polyp Detection Methods in Video Colonoscopy: Results From the MICCAI 2015 Endoscopic Vision Challenge. IEEE Transactions on Medical Imaging, 2017, 36, 1231-1249.	5.4	297
29	Automatic polyp detection in colonoscopy videos. Proceedings of SPIE, 2017, , .	0.8	11
30	A customizable framework for computing sky view factor from large-scale 3D city models. Energy and Buildings, 2017, 149, 38-44.	3.1	17
31	Robust treatment planning with conditional value at risk chance constraints in intensity-modulated proton therapy. Medical Physics, 2017, 44, 28-36.	1.6	29
32	Modeling, simulation and analysis of the evacuation process on stairs in a multi-floor classroom building of a primary school. Physica A: Statistical Mechanics and Its Applications, 2017, 469, 157-172.	1.2	45
33	Fine-Tuning Convolutional Neural Networks for Biomedical Image Analysis: Actively and Incrementally. , 2017, 2017, 4761-4772.		264
34	Analysis of Viewing Behaviors in a Head-Mounted Virtual Geographic Environment. , 2017, , .		2
35	Automatic Interpretation of Carotid Intima-Media Thickness Videos Using Convolutional Neural Networks. , 2017, , 105-131.		9
36	Automatic Sky View Factor Estimation from Street View Photographs-A Big Data Approach. Remote Sensing, 2017, 9, 411.	1.8	67

#	ARTICLE	IF	CITATIONS
37	Optimizing the Spatial Resolution for Urban CO2 Flux Studies Using the Shannon Entropy. Atmosphere, 2017, 8, 90.	1.0	1
38	A Sparse Voxel Octree-Based Framework for Computing Solar Radiation Using 3D City Models. ISPRS International Journal of Geo-Information, 2017, 6, 106.	1.4	12
39	Detection of Multiple Parallel Transmission Outbreak of <i>Streptococcus suis</i> Human Infection by Use of Genome Epidemiology, China, 2005. Emerging Infectious Diseases, 2017, 23, 204-211.	2.0	25
40	Reconciling the differences between a bottom-up and inverse-estimated FFCO2 emissions estimate in a large US urban area. Elementa, 2017, 5, .	1.1	28
41	Generating Orthorectified Multi-Perspective 2.5D Maps to Facilitate Web GIS-Based Visualization and Exploitation of Massive 3D City Models. ISPRS International Journal of Geo-Information, 2016, 5, 212.	1.4	8
42	Automating Carotid Intima-Media Thickness Video Interpretation with Convolutional Neural Networks. , 2016, , .		38
43	Convolutional Neural Networks for Medical Image Analysis: Full Training or Fine Tuning?. IEEE Transactions on Medical Imaging, 2016, 35, 1299-1312.	5.4	2,081
44	Automated Polyp Detection in Colonoscopy Videos Using Shape and Context Information. IEEE Transactions on Medical Imaging, 2016, 35, 630-644.	5.4	454
45	A Comprehensive Computer-Aided Polyp Detection System for Colonoscopy Videos. Lecture Notes in Computer Science, 2015, 24, 327-338.	1.0	43
46	Real-time flood simulations using CA model driven by dynamic observation data. International Journal of Geographical Information Science, 2015, 29, 523-535.	2.2	24
47	Realistic rendering for physically based shallow water simulation in Virtual Geographic Environments (VGEs). Annals of GIS, 2015, 21, 301-312.	1.4	11
48	An open-source 3D solar radiation model integrated with a 3D Geographic Information System. Environmental Modelling and Software, 2015, 64, 94-101.	1.9	60
49	Computer-Aided Pulmonary Embolism Detection Using a Novel Vessel-Aligned Multi-planar Image Representation and Convolutional Neural Networks. Lecture Notes in Computer Science, 2015, , 62-69.	1.0	58
50	ECG-based frame selection and curvature-based ROI detection for measuring carotid intima-media thickness. , 2014, , .		0
51	A visualization-oriented 3D method for efficient computation of urban solar radiation based on 3D to 2D surface mapping. International Journal of Geographical Information Science, 2014, 28, 780-798.	2.2	47
52	Comparing algorithms for automated vessel segmentation in computed tomography scans of the lung: the VESSEL12 study. Medical Image Analysis, 2014, 18, 1217-1232.	7.0	131
53	Visualizing 3D atmospheric data with spherical volume texture on virtual globes. Computers and Geosciences, 2014, 68, 81-91.	2.0	27
54	A novel online boosting algorithm for automatic anatomy detection. Machine Vision and Applications, 2013, 24, 1359-1370.	1.7	2

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55	Motion Analysis of Right Ventricular Dysfunction Under Mild or Moderate Pressure Overload Caused by Acute Pulmonary Embolism. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 2066-2074.	0.7	0
56	Interobserver agreement in the diagnosis of acute pulmonary embolism from computed tomography pulmonary angiography and on the effectiveness of computer-aided diagnosis. <i>American Journal of Emergency Medicine</i> , 2011, 29, 465-467.	0.7	1
57	Tree ring precipitation reconstruction in the Chifeng-Weichang region, China, and East Asian summer monsoon variation since A.D. 1777. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	36
58	Computer-aided detection of pulmonary embolism: Influence on radiologists'™ detection performance with respect to vessel segments. <i>European Radiology</i> , 2008, 18, 1350-1355.	2.3	51
59	Computer Aided Detection of Pulmonary Embolism with Tobogganing and Mutiple Instance Classification in CT Pulmonary Angiography. , 2007, 20, 630-641.		39
60	United Snakes. <i>Medical Image Analysis</i> , 2006, 10, 215-233.	7.0	101
61	Dynamic Chest Image Analysis: Model-Based Perfusion Analysis in Dynamic Pulmonary Imaging. <i>Eurasip Journal on Advances in Signal Processing</i> , 2003, 2003, 1.	1.0	6
62	<title>Dynamic chest image analysis: model-based pulmonary perfusion analysis with pyramid images</title>. , 1998, , .		3