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	UNet++: A Nested U-Net Architecture for Medical Image Segmentation. Lecture Notes in Computer Science, 2018, 11045, 3-11.	1.0	2,913
2	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
3	UNet++: Redesigning Skip Connections to Exploit Multiscale Features in Image Segmentation. IEEE Transactions on Medical Imaging, 2020, 39, 1856-1867.	5.4	1,697
4	Automated Polyp Detection in Colonoscopy Videos Using Shape and Context Information. IEEE Transactions on Medical Imaging, 2016, 35, 630-644.	5.4	454
5	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
6	Fine-Tuning Convolutional Neural Networks for Biomedical Image Analysis: Actively and Incrementally. , 2017, 2017, 4761-4772.		264
7	Models Genesis: Generic Autodidactic Models for 3D Medical Image Analysis. Lecture Notes in Computer Science, 2019, 11767, 384-393.	1.0	150
8	Models Genesis. Medical Image Analysis, 2021, 67, 101840.	7.0	132
9	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
10	United Snakes. Medical Image Analysis, 2006, 10, 215-233.	7.0	101
11	Applications and impacts of Google Earth: A decadal review (2006â€“2016). ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 146, 91-107.	4.9	69
12	Automatic Sky View Factor Estimation from Street View Photographsâ€”A Big Data Approach. Remote Sensing, 2017, 9, 411.	1.8	67
13	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
14	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
15	Southern California megacity CO₂, CH₄, 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
16	Learning Fixed Points in Generative Adversarial Networks: From Image-to-Image Translation to Disease Detection and Localization. , 2019, 2019, 191-200.		54
17	Computer-aided detection of pulmonary embolism: Influence on radiologistsâ€™ detection performance with respect to vessel segments. European Radiology, 2008, 18, 1350-1355.	2.3	51
18	Synthesis of Urban CO₂ 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	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
20	A visualization-oriented 3D method for efficient computation of urban solar radiation based on 3Dâ€“2D surface mapping. International Journal of Geographical Information Science, 2014, 28, 780-798.	2.2	47
21	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
22	A Comprehensive Computer-Aided Polyp Detection System for Colonoscopy Videos. Lecture Notes in Computer Science, 2015, 24, 327-338.	1.0	43
23	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
24	Computer Aided Detection of Pulmonary Embolism with Tobogganing and Mutiple Instance Classification in CT Pulmonary Angiography. , 2007, 20, 630-641.		39
25	Automating Carotid Intima-Media Thickness Video Interpretation with Convolutional Neural Networks. , 2016, , .		38
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	Tree ring precipitation reconstruction in the Chifengâ€Weichang region, China, and East Asian summer monsoon variation since A.D. 1777. Journal of Geophysical Research, 2010, 115, .	3.3	36
28	Learning Semantics-Enriched Representation via Self-discovery, Self-classification, and Self-restoration. Lecture Notes in Computer Science, 2020, , 137-147.	1.0	34
29	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
30	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
31	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
32	Robust treatment planning with conditional value at risk chance constraints in intensityâ€modulated proton therapy. Medical Physics, 2017, 44, 28-36.	1.6	29
33	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
34	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
35	Visualizing 3D atmospheric data with spherical volume texture on virtual globes. Computers and Geosciences, 2014, 68, 81-91.	2.0	27
36	Active, continual fine tuning of convolutional neural networks for reducing annotation efforts. Medical Image Analysis, 2021, 71, 101997.	7.0	26

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37	Detection of Multiple Parallel Transmission Outbreak ofStreptococcussuisHuman Infection by Use of Genome Epidemiology, China, 2005. Emerging Infectious Diseases, 2017, 23, 204-211.	2.0	25
38	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
39	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
40	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
41	A Systematic Benchmarking Analysis ofÂTransfer Learning for Medical ImageÂAnalysis. Lecture Notes in Computer Science, 2021, , 3-13.	1.0	22
42	Integrating Active Learning and Transfer Learning for Carotid Intima-Media Thickness Video Interpretation. Journal of Digital Imaging, 2019, 32, 290-299.	1.6	20
43	A customizable framework for computing sky view factor from large-scale 3D city models. Energy and Buildings, 2017, 149, 38-44.	3.1	17
44	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
45	Realistic rendering for physically based shallow water simulation in Virtual Geographic Environments (VGEs). Annals of GIS, 2015, 21, 301-312.	1.4	11
46	Automatic polyp detection in colonoscopy videos. Proceedings of SPIE, 2017, , .	0.8	11
47	Guest Editorial Annotation-Efficient Deep Learning: The Holy Grail of Medical Imaging. IEEE Transactions on Medical Imaging, 2021, 40, 2526-2533.	5.4	10
48	Automatic Interpretation of Carotid Intimaâ€“Media Thickness Videos Using Convolutional Neural Networks. , 2017, , 105-131.		9
49	A Heterogeneous Distributed Virtual Geographic Environmentâ€”Potential Application in Spatiotemporal Behavior Experiments. ISPRS International Journal of Geo-Information, 2018, 7, 54.	1.4	9
50	Solar3D: An Open-Source Tool for Estimating Solar Radiation in Urban Environments. ISPRS International Journal of Geo-Information, 2020, 9, 524.	1.4	9
51	Parts2Whole: Self-supervised Contrastive Learning via Reconstruction. Lecture Notes in Computer Science, 2020, , 85-95.	1.0	9
52	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
53	Dynamic Chest Image Analysis: Model-Based Perfusion Analysis in Dynamic Pulmonary Imaging. Eurasip Journal on Advances in Signal Processing, 2003, 2003, 1.	1.0	6
54	Seeking an Optimal Approach for Computer-Aided Pulmonary Embolism Detection. Lecture Notes in Computer Science, 2021, , 692-702.	1.0	6

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55	<title>Dynamic chest image analysis: model-based pulmonary perfusion analysis with pyramid images</title>. , 1998, , .		3
56	A novel online boosting algorithm for automatic anatomy detection. Machine Vision and Applications, 2013, 24, 1359-1370.	1.7	2
57	Analysis of Viewing Behaviors in a Head-Mounted Virtual Geographic Environment. , 2017, , .		2
58	Interobserver agreement in the diagnosis of acute pulmonary embolism from computed tomography pulmonary angiography and on the effectiveness of computer-aided diagnosis. American Journal of Emergency Medicine, 2011, 29, 465-467.	0.7	1
59	Optimizing the Spatial Resolution for Urban CO2 Flux Studies Using the Shannon Entropy. Atmosphere, 2017, 8, 90.	1.0	1
60	Motion Analysis of Right Ventricular Dysfunction Under Mild or Moderate Pressure Overload Caused by Acute Pulmonary Embolism. Ultrasound in Medicine and Biology, 2013, 39, 2066-2074.	0.7	0
61	ECG-based frame selection and curvature-based ROI detection for measuring carotid intima-media thickness. , 2014, , .		0
62	Introduction to the Special Issue: â€œState-of-the-Art Virtual/Augmented Reality and 3D Modeling Techniques for Virtual Urban Geographic Experimentsâ€• ISPRS International Journal of Geo-Information, 2018, 7, 366.	1.4	0