Zongyuan Ge

List of Publications by Year
in descending order

79 papers	4,499 citations	257450 24 h-index	214800 47 g-index
82 all docs	82 docs citations	82 times ranked	3589 citing authors

#	ARTICLE	IF	CITATIONS
1	Simple online and realtime tracking. , 2016, , .		1,790
2	DeepFruits: A Fruit Detection System Using Deep Neural Networks. Sensors, 2016, 16, 1222.	3.8	717
3	Skin lesion segmentation via generative adversarial networks with dual discriminators. Medical Image Analysis, 2020, 64, 101716.	11.6	156
4	An Interpretable Prediction Model for Identifying N7-Methylguanosine Sites Based on XGBoost and SHAP. Molecular Therapy - Nucleic Acids, 2020, 22, 362-372.	5.1	93
5	Universal artificial intelligence platform for collaborative management of cataracts. British Journal of Ophthalmology, 2019, 103, 1553-1560.	3.9	87
6	Progressive Transfer Learning and Adversarial Domain Adaptation for Cross-Domain Skin Disease Classification. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 1379-1393.	6.3	75
7	ZeroNAS: Differentiable Generative Adversarial Networks Search for Zero-Shot Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 9733-9740.	13.9	74
8	Learning Context Flexible Attention Model for Long-Term Visual Place Recognition. IEEE Robotics and Automation Letters, 2018, 3, 4015-4022.	5.1	73
9	Application of Comprehensive Artificial intelligence Retinal Expert (CARE) system: a national real-world evidence study. The Lancet Digital Health, 2021, 3, e486-e495.	12.3	65
10	Skin Disease Recognition Using Deep Saliency Features and Multimodal Learning of Dermoscopy and Clinical Images. Lecture Notes in Computer Science, 2017, , 250-258.	1.3	61
11	FDCNet: filtering deep convolutional network for marine organism classification. Multimedia Tools and Applications, 2018, 77, 21847-21860.	3.9	53
12	Contextual ensemble network for semantic segmentation. Pattern Recognition, 2022, 122, 108290.	8.1	53
13	Retinal age gap as a predictive biomarker for mortality risk. British Journal of Ophthalmology, 2023, 107, 547-554.	3.9	49
14	Structured deep hashing with convolutional neural networks for fast person re-identification. Computer Vision and Image Understanding, 2018, 167, 63-73.	4.7	48
15	Artificial Intelligence for Screening of Multiple Retinal and Optic Nerve Diseases. JAMA Network Open, 2022, 5, e229960.	5.9	45
16	Local inter-session variability modelling for object classification. , 2014, , .		40
17	Exploiting local and generic features for accurate skin lesions classification using clinical and dermoscopy imaging. , 2017, , .		39
18	Training data independent image registration using generative adversarial networks and domain adaptation. Pattern Recognition, 2020, 100, 107109.	8.1	39

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19	Mutual consistency learning for semi-supervised medical image segmentation. Medical Image Analysis, 2022, 81, 102530.	11.6	39
20	Subset feature learning for fine-grained category classification. , 2015, , .		37
21	Fine-grained classification via mixture of deep convolutional neural networks. , 2016, , .		36
22	PeNGaRoo, a combined gradient boosting and ensemble learning framework for predicting non-classical secreted proteins. Bioinformatics, 2020, 36, 704-712.	4.1	36
23	Big-data and artificial-intelligence-assisted vault prediction and EVO-ICL size selection for myopia correction. British Journal of Ophthalmology, 2023, 107, 201-206.	3.9	35
24	The Association of Age at Diagnosis of Hypertension With Brain Structure and Incident Dementia in the UK Biobank. Hypertension, 2021, 78, 1463-1474.	2.7	35
25	Joint Registration And Segmentation Of Xray Images Using Generative Adversarial Networks. Lecture Notes in Computer Science, 2018, , 73-80.	1.3	32
26	Improving Medical Images Classification With Label Noise Using Dual-Uncertainty Estimation. IEEE Transactions on Medical Imaging, 2022, 41, 1533-1546.	8.9	31
27	Leveraging Regular Fundus Images for Training UWF Fundus Diagnosis Models via Adversarial Learning and Pseudo-Labeling. IEEE Transactions on Medical Imaging, 2021, 40, 2911-2925.	8.9	30
28	Predicting the diagnosis of HIV and sexually transmitted infections among men who have sex with men using machine learning approaches. Journal of Infection, 2021, 82, 48-59.	3.3	29
29	Modelling local deep convolutional neural network features to improve fine-grained image classification. , 2015, , .		27
30	One-Shot Neural Architecture Search: Maximising Diversity to Overcome Catastrophic Forgetting. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2921-2935.	13.9	27
31	Adversarial discriminative sim-to-real transfer of visuo-motor policies. International Journal of Robotics Research, 2019, 38, 1229-1245.	8.5	26
32	The Importance of Incorporating Human Factors in the Design and Implementation of Artificial Intelligence for Skin Cancer Diagnosis in the Real World. American Journal of Clinical Dermatology, 2021, 22, 233-242.	6.7	26
33	Underwater Image High Definition Display Using the Multilayer Perceptron and Color Feature-Based SRCNN. IEEE Access, 2019, 7, 83721-83728.	4.2	23
34	Pseudo-Pair Based Self-Similarity Learning for Unsupervised Person Re-Identification. IEEE Transactions on Image Processing, 2022, 31, 4803-4816.	9.8	22
35	New era of personalised epilepsy management. BMJ, The, 2020, 371, m3658.	6.0	20
36	Improving Deep Lesion Detection Using 3D Contextual and Spatial Attention. Lecture Notes in Computer Science, 2019, , 185-193.	1.3	20

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37	Retinal Abnormalities Recognition Using Regional Multitask Learning. Lecture Notes in Computer Science, 2019, , 30-38.	1.3	20
38	Early Melanoma Diagnosis With Sequential Dermoscopic Images. IEEE Transactions on Medical Imaging, 2022, 41, 633-646.	8.9	20
39	Fine-grained bird species recognition via hierarchical subset learning. , 2015, , .		19
40	Relational Subsets Knowledge Distillation for Long-Tailed Retinal Diseases Recognition. Lecture Notes in Computer Science, 2021, , 3-12.	1.3	18
41	Improving multi-label chest X-ray disease diagnosis by exploiting disease and health labels dependencies. Multimedia Tools and Applications, 2020, 79, 14889-14902.	3.9	17
42	ZSTAD: Zero-Shot Temporal Activity Detection. , 2020, , .		17
43	A Machine-Learning-Based Risk-Prediction Tool for HIV and Sexually Transmitted Infections Acquisition over the Next 12 Months. Journal of Clinical Medicine, 2022, 11, 1818.	2.4	17
44	Synergic Adversarial Label Learning for Grading Retinal Diseases via Knowledge Distillation and Multi-Task Learning. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3709-3720.	6.3	16
45	Auto-FSL: Searching the Attribute Consistent Network for Few-Shot Learning. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 1213-1223.	8.3	16
46	Incremental learning for exudate and hemorrhage segmentation on fundus images. Information Fusion, 2021, 73, 157-164.	19.1	15
47	Association of a wide range of chronic diseases and apolipoprotein E4 genotype with subsequent risk of dementia in community-dwelling adults: A retrospective cohort study. EClinicalMedicine, 2022, 45, 101335.	7.1	15
48	Machine learning models for decision support in epilepsy management: A critical review. Epilepsy and Behavior, 2021, 123, 108273.	1.7	14
49	A Deep Learning System for Fully Automated Retinal Vessel Measurement in High Throughput Image Analysis. Frontiers in Cardiovascular Medicine, 2022, 9, 823436.	2.4	14
50	Deep Multiscale Convolutional Feature Learning for Weakly Supervised Localization of Chest Pathologies in X-ray Images. Lecture Notes in Computer Science, 2018, , 267-275.	1.3	13
51	Training Data Independent Image Registration with Gans Using Transfer Learning and Segmentation Information. , 2019, , .		13
52	Epileptic Seizure Detection Using Convolutional Neural Network: A Multi-Biosignal study. , 2020, , .		13
53	Model-less Active Compliance for Continuum Robots using Recurrent Neural Networks. , 2019, , .		12
54	Use of artificial intelligence in skin cancer diagnosis and management. Medical Journal of Australia, 2020, 213, 256.	1.7	12

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55	Improving Skin cancer Management with ARTificial Intelligence (SMARTI): protocol for a preintervention/postintervention trial of an artificial intelligence system used as a diagnostic aid for skin cancer management in a specialist dermatology setting. BMJ Open, 2022, 12, e050203.	1.9	11
56	ASPIRER: a new computational approach for identifying non-classical secreted proteins based on deep learning. Briefings in Bioinformatics, 2022, 23, .	6.5	11
57	Distance metric learning for feature-agnostic place recognition. , 2015, , .		10
58	Association of a wide range of individual chronic diseases and their multimorbidity with brain volumes in the UK Biobank: A cross-sectional study. EClinicalMedicine, 2022, 47, 101413.	7.1	10
59	Keyframe Extraction From Laparoscopic Videos via Diverse and Weighted Dictionary Selection. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1686-1698.	6.3	9
60	Continual Domain Incremental Learning for Chest X-Ray Classification in Low-Resource Clinical Settings. Lecture Notes in Computer Science, 2021, , 226-238.	1.3	9
61	Adversarial Pulmonary Pathology Translation for Pairwise Chest X-Ray Data Augmentation. Lecture Notes in Computer Science, 2019, , 757-765.	1.3	9
62	OCTID: a one-class learning-based Python package for tumor image detection. Bioinformatics, 2021, 37, 3986-3988.	4.1	8
63	Exploiting Temporal Information for DCNN-Based Fine-Grained Object Classification. , 2016, , .		7
64	Knowledge driven temporal activity localization. Journal of Visual Communication and Image Representation, 2019, 64, 102628.	2.8	6
65	End-to-End Ugly Duckling Sign Detection for Melanoma Identification withÂTransformers. Lecture Notes in Computer Science, 2021, , 176-184.	1.3	6
66	Medical Matting: A New Perspective onÂMedical Segmentation with Uncertainty. Lecture Notes in Computer Science, 2021, , 573-583.	1.3	6
67	Registration of Histopathology Images Using Self Supervised Fine Grained Feature Maps. Lecture Notes in Computer Science, 2020, , 41-51.	1.3	5
68	Investigating deep side layers for skin lesion segmentation. , 2017, , .		4
69	Self-supervised Learning of Inter-label Geometric Relationships for Gleason Grade Segmentation. Lecture Notes in Computer Science, 2021, , 57-67.	1.3	3
70	Self-supervised Multimodal Generalized Zero Shot Learning for Gleason Grading. Lecture Notes in Computer Science, 2021, , 46-56.	1.3	3
71	Tree-loss function for training neural networks on weakly-labelled datasets. , 2017, , .		2
72	One step closer towards personalized epilepsy management. Brain, 2021, 144, 1624-1626.	7.6	2

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73	Macronutrient Intake and Risk of Dementia in Community-Dwelling Older Adults: A Nine-Year Follow-Up Cohort Study. Journal of Alzheimer's Disease, 2021, , 1-14.	2.6	2
74	Editorial: Artificial Intelligence for Mobile Robotic Networks. Mobile Networks and Applications, 2018, 23, 326-327.	3.3	1
75	Adiposity by Differing Measures and the Risk of Cataract in the UK Biobank: The Importance of Diabetes. , 2021, 62, 19.		1
76	Testing Artificial Intelligence Algorithms in the Real World: Lessons From the SMARTI Trial. Iproceedings, 2022, 8, e36902.	0.1	1
77	Autonomous Incident Detection on Spectrometers Using Deep Convolutional Models. Sensors, 2022, 22, 160.	3.8	1
78	Application of transformers for predicting epilepsy treatment response. , 2021, , .		0
79	Assessing Generalizability of Deep Learning Models Trained on Standardized and Nonstandardized Images and Their Performance Against Teledermatologists. Iproceedings, 2021, 7, e35391.	0.1	0