Ronald M Summers

List of Publications by Year
in descending order

88 papers	17,882 citations	66343 42 h-index	69250 77 g-index
88 all docs	88 docs citations	88 times ranked	15173 citing authors

#	Article	IF	Citations
1	Deep Convolutional Neural Networks for Computer-Aided Detection: CNN Architectures, Dataset Characteristics and Transfer Learning. IEEE Transactions on Medical Imaging, 2016, 35, 1285-1298.	8.9	4,024
2	ChestX-Ray8: Hospital-Scale Chest X-Ray Database and Benchmarks on Weakly-Supervised Classification and Localization of Common Thorax Diseases. , 2017, , .		2,038
3	Guest Editorial Deep Learning in Medical Imaging: Overview and Future Promise of an Exciting New Technique. IEEE Transactions on Medical Imaging, 2016, 35, 1153-1159.	8.9	1,261
4	Online palmprint identification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 1041-1050.	13.9	1,222
5	The future of digital health with federated learning. Npj Digital Medicine, 2020, 3, 119.	10.9	887
6	Deep learning in medical imaging and radiation therapy. Medical Physics, 2019, 46, e1-e36.	3.0	513
7	Preparing Medical Imaging Data for Machine Learning. Radiology, 2020, 295, 4-15.	7.3	473
8	A survey of palmprint recognition. Pattern Recognition, 2009, 42, 1408-1418.	8.1	468
9	Improving Computer-Aided Detection Using<?Pub _newline?>Convolutional Neural Networks and Random View Aggregation. IEEE Transactions on Medical Imaging, 2016, 35, 1170-1181.	8.9	465
10	A Two-Phase Test Sample Sparse Representation Method for Use With Face Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 1255-1262.	8.3	444
11	Palmprint verification based on robust line orientation code. Pattern Recognition, 2008, 41, 1504-1513.	8.1	389
12	Data augmentation using generative adversarial networks (CycleGAN) to improve generalizability in CT segmentation tasks. Scientific Reports, 2019, 9, 16884.	3.3	360
13	A Review of Deep Learning in Medical Imaging: Imaging Traits, Technology Trends, Case Studies With Progress Highlights, and Future Promises. Proceedings of the IEEE, 2021, 109, 820-838.	21.3	339
14	Palmprint identification using feature-level fusion. Pattern Recognition, 2006, 39, 478-487.	8.1	315
15	DeepLesion: automated mining of large-scale lesion annotations and universal lesion detection with deep learning. Journal of Medical Imaging, 2018, 5, 1.	1.5	288
16	Palmprint verification based on principal lines. Pattern Recognition, 2008, 41, 1316-1328.	8.1	287
17	A New 2.5D Representation for Lymph Node Detection Using Random Sets of Deep Convolutional Neural Network Observations. Lecture Notes in Computer Science, 2014, 17, 520-527.	1.3	286
18	Discriminative Transfer Subspace Learning via Low-Rank and Sparse Representation. IEEE Transactions on Image Processing, 2016, 25, 850-863.	9.8	246

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19	Palmprint verification using binary orientation co-occurrence vector. Pattern Recognition Letters, 2009, 30, 1219-1227.	4.2	235
20	LSDT: Latent Sparse Domain Transfer Learning for Visual Adaptation. IEEE Transactions on Image Processing, 2016, 25, 1177-1191.	9.8	221
21	A Comparative Study of Palmprint Recognition Algorithms. ACM Computing Surveys, 2012, 44, 1-37.	23.0	192
22	DS-TransUNet: Dual Swin Transformer U-Net for Medical Image Segmentation. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-15.	4.7	173
23	Double-orientation code and nonlinear matching scheme for palmprint recognition. Pattern Recognition, 2016, 49, 89-101.	8.1	154
24	Learning Domain-Invariant Subspace Using Domain Features and Independence Maximization. IEEE Transactions on Cybernetics, 2018, 48, 288-299.	9.5	146
25	Feature Extraction Methods for Palmprint Recognition: A Survey and Evaluation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 346-363.	9.3	143
26	Medical Image Data and Datasets in the Era of Machine Learning—Whitepaper from the 2016 C-MIMI Meeting Dataset Session. Journal of Digital Imaging, 2017, 30, 392-399.	2.9	140
27	Discriminative and Robust Competitive Code for Palmprint Recognition. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 232-241.	9.3	105
28	Robust palmprint verification using 2D and 3D features. Pattern Recognition, 2010, 43, 358-368.	8.1	95
29	Half-orientation extraction of palmprint features. Pattern Recognition Letters, 2016, 69, 35-41.	4.2	83
30	Manifold Criterion Guided Transfer Learning via Intermediate Domain Generation. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 3759-3773.	11.3	82
31	Guide Subspace Learning for Unsupervised Domain Adaptation. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3374-3388.	11.3	79
32	Deep Lesion Graphs in the Wild: Relationship Learning and Organization of Significant Radiology Image Findings in a Diverse Large-Scale Lesion Database. , 2018, , .		78
33	Label Co-Occurrence Learning With Graph Convolutional Networks for Multi-Label Chest X-Ray Image Classification. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2292-2302.	6.3	76
34	Combining Left and Right Palmprint Images for More Accurate Personal Identification. IEEE Transactions on Image Processing, 2015, 24, 549-559.	9.8	74
35	Calibration transfer and drift compensation of e-noses via coupled task learning. Sensors and Actuators B: Chemical, 2016, 225, 288-297.	7.8	72
36	The multiscale competitive code via sparse representation for palmprint verification. , 2010, , .		69

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37	Feature Band Selection for Online Multispectral Palmprint Recognition. IEEE Transactions on Information Forensics and Security, 2012, 7, 1094-1099.	6.9	69
38	Attention-Guided Curriculum Learning for Weakly Supervised Classification and Localization of Thoracic Diseases on Chest Radiographs. Lecture Notes in Computer Science, 2018, , 249-258.	1.3	67
39	Study on novel Curvature Features for 3D fingerprint recognition. Neurocomputing, 2015, 168, 599-608.	5.9	64
40	Convolutional Invasion and Expansion Networks for Tumor Growth Prediction. IEEE Transactions on Medical Imaging, 2018, 37, 638-648.	8.9	64
41	Correcting Instrumental Variation and Time-Varying Drift: A Transfer Learning Approach With Autoencoders. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 2012-2022.	4.7	62
42	Automated classification of benign and malignant cells from lung cytological images using deep convolutional neural network. Informatics in Medicine Unlocked, 2019, 16, 100205.	3.4	57
43	Asymmetric CNN for Image Superresolution. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3718-3730.	9.3	56
44	COVID-19-CT-CXR: A Freely Accessible and Weakly Labeled Chest X-Ray and CT Image Collection on COVID-19 From Biomedical Literature. IEEE Transactions on Big Data, 2021, 7, 3-12.	6.1	55
45	Efficient joint 2D and 3D palmprint matching with alignment refinement. , 2010, , .		54
46	Deep Cascade Model-Based Face Recognition: When Deep-Layered Learning Meets Small Data. IEEE Transactions on Image Processing, 2020, 29, 1016-1029.	9.8	49
47	Facial Expression Recognition in the Wild Using Multi-Level Features and Attention Mechanisms. IEEE Transactions on Affective Computing, 2023, 14, 451-462.	8.3	44
48	Improving the transfer ability of prediction models for electronic noses. Sensors and Actuators B: Chemical, 2015, 220, 115-124.	7.8	41
49	Efficient Solutions for Discreteness, Drift, and Disturbance (3D) in Electronic Olfaction. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 242-254.	9.3	39
50	Uldor: A Universal Lesion Detector For Ct Scans With Pseudo Masks And Hard Negative Example Mining. , 2019, , .		38
51	A sparse representation method of bimodal biometrics and palmprint recognition experiments. Neurocomputing, 2013, 103, 164-171.	5.9	37
52	Learning From Multiple Datasets With Heterogeneous and Partial Labels for Universal Lesion Detection in CT. IEEE Transactions on Medical Imaging, 2021, 40, 2759-2770.	8.9	35
53	Feature Extraction for 3-D Palmprint Recognition: A Survey. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 645-656.	4.7	33
54	3D palmprint identification combining blocked ST and PCA. Pattern Recognition Letters, 2017, 100, 89-95.	4.2	31

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55	Segmentation label propagation using deep convolutional neural networks and dense conditional random field. , 2016, , .		28
56	Unsupervised Joint Mining of Deep Features and Image Labels for Large-Scale Radiology Image Categorization and Scene Recognition. , 2017, , .		26
57	Multi-Label Chest X-Ray Image Classification via Semantic Similarity Graph Embedding. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 2455-2468.	8.3	25
58	A Novel Multicamera System for High-Speed Touchless Palm Recognition. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 1534-1548.	9.3	24
59	Rare coding variants in 35 genes associate with circulating lipid levelsâ€"A multi-ancestry analysis of 170,000 exomes. American Journal of Human Genetics, 2022, 109, 81-96.	6.2	24
60	Complete Binary Representation for 3-D Palmprint Recognition. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2761-2771.	4.7	23
61	Artificial Intelligence in Lymphoma PET Imaging. PET Clinics, 2022, 17, 145-174.	3.0	23
62	SRGC-Nets: Sparse Repeated Group Convolutional Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 2889-2902.	11.3	22
63	Optimal Projection Guided Transfer Hashing for Image Retrieval. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 3788-3802.	8.3	22
64	Person Recognition Using 3-D Palmprint Data Based on Full-Field Sinusoidal Fringe Projection. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3287-3298.	4.7	19
65	Deep Lesion Tracker: Monitoring Lesions in 4D Longitudinal Imaging Studies. , 2021, , .		19
66	Lesion-Harvester: Iteratively Mining Unlabeled Lesions and Hard-Negative Examples at Scale. IEEE Transactions on Medical Imaging, 2021, 40, 59-70.	8.9	18
67	Deformable Template Network (DTN) for Object Detection. IEEE Transactions on Multimedia, 2022, 24, 2058-2068.	7.2	18
68	Multimodal Emotion Recognition With Temporal and Semantic Consistency. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 3592-3603.	5.8	18
69	Correcting Instrumental Variation and Time-Varying Drift Using Parallel and Serial Multitask Learning. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2306-2316.	4.7	15
70	Lymph Node Gross Tumor Volume Detection and Segmentation via Distance-Based Gating Using 3D CT/PET Imaging in Radiotherapy. Lecture Notes in Computer Science, 2020, , 753-762.	1.3	15
71	Dual Asymmetric Deep Hashing Learning. IEEE Access, 2019, 7, 113372-113384.	4.2	14
72	Artificial intelligence in radiology. , 2021, , 265-289.		14

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73	Global-Local attention network with multi-task uncertainty loss for abnormal lymph node detection in MR images. Medical Image Analysis, 2022, 77, 102345.	11.6	13
74	Deep Volumetric Universal Lesion Detection Using Light-Weight Pseudo 3D Convolution and Surface Point Regression. Lecture Notes in Computer Science, 2020, , 3-13.	1.3	12
75	Tongue Image Alignment via Conformal Mapping for Disease Detection. IEEE Access, 2020, 8, 9796-9808.	4.2	11
76	Weakly-Supervised Universal Lesion Segmentation with Regional Level SetÂLoss. Lecture Notes in Computer Science, 2021, , 515-525.	1.3	11
77	Cross-domain Medical Image Translation by Shared Latent Gaussian Mixture Model. Lecture Notes in Computer Science, 2020, , 379-389.	1.3	10
78	Generative Memory-Guided Semantic Reasoning Model for Image Inpainting. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 7432-7447.	8.3	8
79	Influence of sampling rate on voice analysis for assessment of Parkinson's disease. Journal of the Acoustical Society of America, 2018, 144, 1416-1423.	1.1	6
80	Lesion Segmentation and RECIST Diameter Prediction via Click-Driven Attention and Dual-Path Connection. Lecture Notes in Computer Science, 2021, , 341-351.	1.3	6
81	Pedestrian Detection by Exemplar-Guided Contrastive Learning. IEEE Transactions on Image Processing, 2023, 32, 2003-2016.	9.8	5
82	Stepwise-Refining Speech Separation Network via Fine-Grained Encoding in High-Order Latent Domain. IEEE/ACM Transactions on Audio Speech and Language Processing, 2022, 30, 378-393.	5.8	4
83	Fast Pore Comparison for High Resolution Fingerprint Images Based on Multiple Co-Occurrence Descriptors and Local Topology Similarities. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5721-5731.	9.3	3
84	3D palmprint identification using blocked histogram and improved sparse representation-based classifier. Neural Computing and Applications, 2020, 32, 12547-12560.	5.6	3
85	Universal lesion detection in CT scans using neural network ensembles. , 2022, , .		3
86	Detection of Lymph Nodes in T2 MRI Using Neural Network Ensembles. Lecture Notes in Computer Science, 2021, , 682-691.	1.3	2
87	RSNA-MICCAI Panel Discussion: 2. Leveraging the Full Potential of AIâ€"Radiologists and Data Scientists Working Together. Radiology: Artificial Intelligence, 2021, 3, e210248.	5.8	1
88	CURRENT CONCEPTS IN COMPUTER-AIDED DETECTION FOR CT COLONOGRAPHY. , 2007, , .		0