

# Ronald M Summers

## List of Publications by Year in descending order

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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	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
2	Pedestrian Detection by Exemplar-Guided Contrastive Learning. IEEE Transactions on Image Processing, 2023, 32, 2003-2016.	9.8	5
3	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
4	Asymmetric CNN for Image Superresolution. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3718-3730.	9.3	56
5	Deformable Template Network (DTN) for Object Detection. IEEE Transactions on Multimedia, 2022, 24, 2058-2068.	7.2	18
6	Artificial Intelligence in Lymphoma PET Imaging. PET Clinics, 2022, 17, 145-174.	3.0	23
7	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
8	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
9	Rare coding variants in 35 genes associate with circulating lipid levels—A multi-ancestry analysis of 170,000 exomes. American Journal of Human Genetics, 2022, 109, 81-96.	6.2	24
10	Universal lesion detection in CT scans using neural network ensembles. , 2022, , .		3
11	DS-TransUNet: Dual Swin Transformer U-Net for Medical Image Segmentation. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-15.	4.7	173
12	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
13	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
14	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
15	Artificial intelligence in radiology. , 2021, , 265-289.		14
16	Lesion-Harvester: Iteratively Mining Unlabeled Lesions and Hard-Negative Examples at Scale. IEEE Transactions on Medical Imaging, 2021, 40, 59-70.	8.9	18
17	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
18	Weakly-Supervised Universal Lesion Segmentation with Regional Level Set Loss. Lecture Notes in Computer Science, 2021, , 515-525.	1.3	11

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Detection of Lymph Nodes in T2 MRI Using Neural Network Ensembles. Lecture Notes in Computer Science, 2021, , 682-691.	1.3	2
23	RSNA-MICCAI Panel Discussion: 2. Leveraging the Full Potential of AI“Radiologists and Data Scientists Working Together. Radiology: Artificial Intelligence, 2021, 3, e210248.	5.8	1
24	Deep Lesion Tracker: Monitoring Lesions in 4D Longitudinal Imaging Studies. , 2021, , .		19
25	Multimodal Emotion Recognition With Temporal and Semantic Consistency. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 3592-3603.	5.8	18
26	SRGC-Nets: Sparse Repeated Group Convolutional Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 2889-2902.	11.3	22
27	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
28	Guide Subspace Learning for Unsupervised Domain Adaptation. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3374-3388.	11.3	79
29	Optimal Projection Guided Transfer Hashing for Image Retrieval. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 3788-3802.	8.3	22
30	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
31	The future of digital health with federated learning. Npj Digital Medicine, 2020, 3, 119.	10.9	887
32	Preparing Medical Imaging Data for Machine Learning. Radiology, 2020, 295, 4-15.	7.3	473
33	Feature Extraction for 3-D Palmprint Recognition: A Survey. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 645-656.	4.7	33
34	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
35	Tongue Image Alignment via Conformal Mapping for Disease Detection. IEEE Access, 2020, 8, 9796-9808.	4.2	11
36	3D palmprint identification using blocked histogram and improved sparse representation-based classifier. Neural Computing and Applications, 2020, 32, 12547-12560.	5.6	3

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37	Cross-domain Medical Image Translation by Shared Latent Gaussian Mixture Model. Lecture Notes in Computer Science, 2020, , 379-389.	1.3	10
38	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
39	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
40	Data augmentation using generative adversarial networks (CycleGAN) to improve generalizability in CT segmentation tasks. Scientific Reports, 2019, 9, 16884.	3.3	360
41	Dual Asymmetric Deep Hashing Learning. IEEE Access, 2019, 7, 113372-113384.	4.2	14
42	Uldor: A Universal Lesion Detector For Ct Scans With Pseudo Masks And Hard Negative Example Mining. , 2019, , .		38
43	Manifold Criterion Guided Transfer Learning via Intermediate Domain Generation. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 3759-3773.	11.3	82
44	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
45	Deep learning in medical imaging and radiation therapy. Medical Physics, 2019, 46, e1-e36.	3.0	513
46	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
47	Discriminative and Robust Competitive Code for Palmprint Recognition. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 232-241.	9.3	105
48	Learning Domain-Invariant Subspace Using Domain Features and Independence Maximization. IEEE Transactions on Cybernetics, 2018, 48, 288-299.	9.5	146
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	Deep Lesion Graphs in the Wild: Relationship Learning and Organization of Significant Radiology Image Findings in a Diverse Large-Scale Lesion Database. , 2018, , .		78
51	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
52	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
53	Complete Binary Representation for 3-D Palmprint Recognition. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2761-2771.	4.7	23
54	Convolutional Invasion and Expansion Networks for Tumor Growth Prediction. IEEE Transactions on Medical Imaging, 2018, 37, 638-648.	8.9	64

#	ARTICLE	IF	CITATIONS
55	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
56	Unsupervised Joint Mining of Deep Features and Image Labels for Large-Scale Radiology Image Categorization and Scene Recognition. , 2017, , .		26
57	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
58	3D palmprint identification combining blocked ST and PCA. Pattern Recognition Letters, 2017, 100, 89-95.	4.2	31
59	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
60	ChestX-Ray8: Hospital-Scale Chest X-Ray Database and Benchmarks on Weakly-Supervised Classification and Localization of Common Thorax Diseases. , 2017, , .		2,038
61	Segmentation label propagation using deep convolutional neural networks and dense conditional random field. , 2016, , .		28
62	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
63	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
64	LSDT: Latent Sparse Domain Transfer Learning for Visual Adaptation. IEEE Transactions on Image Processing, 2016, 25, 1177-1191.	9.8	221
65	Discriminative Transfer Subspace Learning via Low-Rank and Sparse Representation. IEEE Transactions on Image Processing, 2016, 25, 850-863.	9.8	246
66	Improving Computer-Aided Detection Using Convolutional Neural Networks and Random View Aggregation. IEEE Transactions on Medical Imaging, 2016, 35, 1170-1181.	8.9	465
67	Calibration transfer and drift compensation of e-noses via coupled task learning. Sensors and Actuators B: Chemical, 2016, 225, 288-297.	7.8	72
68	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
69	Double-orientation code and nonlinear matching scheme for palmprint recognition. Pattern Recognition, 2016, 49, 89-101.	8.1	154
70	Half-orientation extraction of palmprint features. Pattern Recognition Letters, 2016, 69, 35-41.	4.2	83
71	Study on novel Curvature Features for 3D fingerprint recognition. Neurocomputing, 2015, 168, 599-608.	5.9	64
72	Combining Left and Right Palmprint Images for More Accurate Personal Identification. IEEE Transactions on Image Processing, 2015, 24, 549-559.	9.8	74

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73	Improving the transfer ability of prediction models for electronic noses. Sensors and Actuators B: Chemical, 2015, 220, 115-124.	7.8	41
74	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
75	A sparse representation method of bimodal biometrics and palmprint recognition experiments. Neurocomputing, 2013, 103, 164-171.	5.9	37
76	A Comparative Study of Palmprint Recognition Algorithms. ACM Computing Surveys, 2012, 44, 1-37.	23.0	192
77	Feature Band Selection for Online Multispectral Palmprint Recognition. IEEE Transactions on Information Forensics and Security, 2012, 7, 1094-1099.	6.9	69
78	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
79	Robust palmprint verification using 2D and 3D features. Pattern Recognition, 2010, 43, 358-368.	8.1	95
80	The multiscale competitive code via sparse representation for palmprint verification. , 2010, , .		69
81	Efficient joint 2D and 3D palmprint matching with alignment refinement. , 2010, , .		54
82	A survey of palmprint recognition. Pattern Recognition, 2009, 42, 1408-1418.	8.1	468
83	Palmprint verification using binary orientation co-occurrence vector. Pattern Recognition Letters, 2009, 30, 1219-1227.	4.2	235
84	Palmprint verification based on principal lines. Pattern Recognition, 2008, 41, 1316-1328.	8.1	287
85	Palmprint verification based on robust line orientation code. Pattern Recognition, 2008, 41, 1504-1513.	8.1	389
86	CURRENT CONCEPTS IN COMPUTER-AIDED DETECTION FOR CT COLONOGRAPHY. , 2007, , .		0
87	Palmprint identification using feature-level fusion. Pattern Recognition, 2006, 39, 478-487.	8.1	315
88	Online palmprint identification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2003, 25, 1041-1050.	13.9	1,222