

# Ronald M Summers

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81 papers	11,097 citations	37 h-index	88 g-index
88 ext. papers	14,367 ext. citations	6.4 avg, IF	6.89 L-index

#	Paper	IF	Citations
81	Stepwise-Refining Speech Separation Network via Fine-Grained Encoding in High-Order Latent Domain. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2022</b> , 30, 378-393	3.6	
80	Artificial Intelligence in Lymphoma PET Imaging:: A Scoping Review (Current Trends and Future Directions). <i>PET Clinics</i> , <b>2022</b> , 17, 145-174	2.2	3
79	Global-Local attention network with multi-task uncertainty loss for abnormal lymph node detection in MR images.. <i>Medical Image Analysis</i> , <b>2022</b> , 77, 102345	15.4	2
78	DS-TransUNet: Dual Swin Transformer U-Net for Medical Image Segmentation. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 1-1	5.2	17
77	Multimodal Emotion Recognition With Temporal and Semantic Consistency. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2021</b> , 29, 3592-3603	3.6	3
76	A Review of Deep Learning in Medical Imaging: Imaging Traits, Technology Trends, Case Studies With Progress Highlights, and Future Promises. <i>Proceedings of the IEEE</i> , <b>2021</b> , 109, 820-838	14.3	83
75	A Novel Multicamera System for High-Speed Touchless Palm Recognition. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 51, 1534-1548	7.3	12
74	Artificial intelligence in radiology <b>2021</b> , 265-289		5
73	Lesion-Harvester: Iteratively Mining Unlabeled Lesions and Hard-Negative Examples at Scale. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 59-70	11.7	8
72	COVID-19-CT-CXR: A Freely Accessible and Weakly Labeled Chest X-Ray and CT Image Collection on COVID-19 From Biomedical Literature. <i>IEEE Transactions on Big Data</i> , <b>2021</b> , 7, 3-12	3.2	16
71	Multi-Label Chest X-ray Image Classification via Semantic Similarity Graph Embedding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2021</b> , 1-1	6.4	5
70	Weakly-Supervised Universal Lesion Segmentation with Regional Level Set Loss. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 515-525	0.9	4
69	Asymmetric CNN for Image Superresolution. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 1-13	7.3	13
68	Lesion Segmentation and RECIST Diameter Prediction via Click-Driven Attention and Dual-Path Connection. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 341-351	0.9	3
67	. <i>IEEE Transactions on Multimedia</i> , <b>2021</b> , 1-1	6.6	3
66	Learning From Multiple Datasets With Heterogeneous and Partial Labels for Universal Lesion Detection in CT. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 2759-2770	11.7	15
65	Detection of Lymph Nodes in T2 MRI Using Neural Network Ensembles. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 682-691	0.9	

64	Preparing Medical Imaging Data for Machine Learning. <i>Radiology</i> , <b>2020</b> , 295, 4-15	20.5	175
63	Feature Extraction for 3-D Palmprint Recognition: A Survey. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 1-1	5.2	19
62	Label Co-Occurrence Learning With Graph Convolutional Networks for Multi-Label Chest X-Ray Image Classification. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2020</b> , 24, 2292-2302	7.2	28
61	Tongue Image Alignment via Conformal Mapping for Disease Detection. <i>IEEE Access</i> , <b>2020</b> , 8, 9796-9808	3.5	6
60	3D palmprint identification using blocked histogram and improved sparse representation-based classifier. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 12547-12560	4.8	2
59	Cross-domain Medical Image Translation by Shared Latent Gaussian Mixture Model. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 379-389	0.9	7
58	Deep Volumetric Universal Lesion Detection Using Light-Weight Pseudo 3D Convolution and Surface Point Regression. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 3-13	0.9	5
57	Optimal Projection Guided Transfer Hashing for Image Retrieval. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2020</b> , 30, 3788-3802	6.4	7
56	Fast Pore Comparison for High Resolution Fingerprint Images Based on Multiple Co-Occurrence Descriptors and Local Topology Similarities. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 1-11	7.3	2
55	Lymph Node Gross Tumor Volume Detection and Segmentation via Distance-Based Gating Using 3D CT/PET Imaging in Radiotherapy. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 753-762	0.9	9
54	Facial Expression Recognition in the Wild Using Multi-level Features and Attention Mechanisms. <i>IEEE Transactions on Affective Computing</i> , <b>2020</b> , 1-1	5.7	10
53	The future of digital health with federated learning. <i>Npj Digital Medicine</i> , <b>2020</b> , 3, 119	15.7	233
52	SRGC-Nets: Sparse Repeated Group Convolutional Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2020</b> , 31, 2889-2902	10.3	11
51	Dual Asymmetric Deep Hashing Learning. <i>IEEE Access</i> , <b>2019</b> , 7, 113372-113384	3.5	9
50	Uldor: A Universal Lesion Detector For Ct Scans With Pseudo Masks And Hard Negative Example Mining <b>2019</b> ,		25
49	Manifold Criterion Guided Transfer Learning via Intermediate Domain Generation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2019</b> ,	10.3	54
48	Automated classification of benign and malignant cells from lung cytological images using deep convolutional neural network. <i>Informatics in Medicine Unlocked</i> , <b>2019</b> , 16, 100205	5.3	30
47	Data augmentation using generative adversarial networks (CycleGAN) to improve generalizability in CT segmentation tasks. <i>Scientific Reports</i> , <b>2019</b> , 9, 16884	4.9	159

46	Deep Cascade Model based Face Recognition: When Deep-layered Learning Meets Small Data. <i>IEEE Transactions on Image Processing</i> , <b>2019</b> ,	8.7	31
45	Guide Subspace Learning for Unsupervised Domain Adaptation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2019</b> ,	10.3	33
44	Person Recognition Using 3-D Palmprint Data Based on Full-Field Sinusoidal Fringe Projection. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2019</b> , 68, 3287-3298	5.2	9
43	Deep learning in medical imaging and radiation therapy. <i>Medical Physics</i> , <b>2019</b> , 46, e1-e36	4.4	294
42	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 49, 346-363	7.3	85
41	Discriminative and Robust Competitive Code for Palmprint Recognition. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2018</b> , 48, 232-241	7.3	68
40	Learning Domain-Invariant Subspace Using Domain Features and Independence Maximization. <i>IEEE Transactions on Cybernetics</i> , <b>2018</b> , 48, 288-299	10.2	97
39	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2018</b> , 48, 242-254	7.3	30
38	Complete Binary Representation for 3-D Palmprint Recognition. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2018</b> , 67, 2761-2771	5.2	21
37	Convolutional Invasion and Expansion Networks for Tumor Growth Prediction. <i>IEEE Transactions on Medical Imaging</i> , <b>2018</b> , 37, 638-648	11.7	35
36	DeepLesion: automated mining of large-scale lesion annotations and universal lesion detection with deep learning. <i>Journal of Medical Imaging</i> , <b>2018</b> , 5, 036501	2.6	159
35	Deep Lesion Graphs in the Wild: Relationship Learning and Organization of Significant Radiology Image Findings in a Diverse Large-Scale Lesion Database <b>2018</b> ,		50
34	Influence of sampling rate on voice analysis for assessment of Parkinson's disease. <i>Journal of the Acoustical Society of America</i> , <b>2018</b> , 144, 1416	2.2	2
33	Attention-Guided Curriculum Learning for Weakly Supervised Classification and Localization of Thoracic Diseases on Chest Radiographs. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 249-258	0.9	37
32	Unsupervised Joint Mining of Deep Features and Image Labels for Large-Scale Radiology Image Categorization and Scene Recognition <b>2017</b> ,		20
31	Medical Image Data and Datasets in the Era of Machine Learning-Whitepaper from the 2016 C-MIMI Meeting Dataset Session. <i>Journal of Digital Imaging</i> , <b>2017</b> , 30, 392-399	5.3	90
30	3D palmprint identification combining blocked ST and PCA. <i>Pattern Recognition Letters</i> , <b>2017</b> , 100, 89-954.7		22
29	Correcting Instrumental Variation and Time-Varying Drift Using Parallel and Serial Multitask Learning. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2017</b> , 66, 2306-2316	5.2	13

28	ChestX-Ray8: Hospital-Scale Chest X-Ray Database and Benchmarks on Weakly-Supervised Classification and Localization of Common Thorax Diseases <b>2017</b> ,		1020
27	Guest Editorial Deep Learning in Medical Imaging: Overview and Future Promise of an Exciting New Technique. <i>IEEE Transactions on Medical Imaging</i> , <b>2016</b> , 35, 1153-1159	11.7	908
26	LSDT: Latent Sparse Domain Transfer Learning for Visual Adaptation. <i>IEEE Transactions on Image Processing</i> , <b>2016</b> , 25, 1177-91	8.7	175
25	Discriminative Transfer Subspace Learning via Low-Rank and Sparse Representation. <i>IEEE Transactions on Image Processing</i> , <b>2016</b> , 25, 850-63	8.7	186
24	Improving Computer-Aided Detection Using Convolutional Neural Networks and Random View Aggregation. <i>IEEE Transactions on Medical Imaging</i> , <b>2016</b> , 35, 1170-81	11.7	350
23	Calibration transfer and drift compensation of e-noses via coupled task learning. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 225, 288-297	8.5	57
22	Deep Convolutional Neural Networks for Computer-Aided Detection: CNN Architectures, Dataset Characteristics and Transfer Learning. <i>IEEE Transactions on Medical Imaging</i> , <b>2016</b> , 35, 1285-98	11.7	2653
21	Double-orientation code and nonlinear matching scheme for palmprint recognition. <i>Pattern Recognition</i> , <b>2016</b> , 49, 89-101	7.7	115
20	Half-orientation extraction of palmprint features. <i>Pattern Recognition Letters</i> , <b>2016</b> , 69, 35-41	4.7	67
19	Segmentation label propagation using deep convolutional neural networks and dense conditional random field <b>2016</b> ,		21
18	Correcting Instrumental Variation and Time-Varying Drift: A Transfer Learning Approach With Autoencoders. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2016</b> , 65, 2012-2022	5.2	48
17	Combining left and right palmprint images for more accurate personal identification. <i>IEEE Transactions on Image Processing</i> , <b>2015</b> , 24, 549-59	8.7	61
16	Improving the transfer ability of prediction models for electronic noses. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 220, 115-124	8.5	33
15	Study on novel Curvature Features for 3D fingerprint recognition. <i>Neurocomputing</i> , <b>2015</b> , 168, 599-608	5.4	53
14	A new 2.5D representation for lymph node detection using random sets of deep convolutional neural network observations. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17, 520-7	0.9	211
13	A sparse representation method of bimodal biometrics and palmprint recognition experiments. <i>Neurocomputing</i> , <b>2013</b> , 103, 164-171	5.4	33
12	Feature Band Selection for Online Multispectral Palmprint Recognition. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2012</b> , 7, 1094-1099	8	47
11	A Comparative Study of Palmprint Recognition Algorithms. <i>ACM Computing Surveys</i> , <b>2012</b> , 44, 1-37	13.4	156

10	A Two-Phase Test Sample Sparse Representation Method for Use With Face Recognition. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2011</b> , 21, 1255-1262	6.4	352
9	The multiscale competitive code via sparse representation for palmprint verification <b>2010</b> ,		48
8	Efficient joint 2D and 3D palmprint matching with alignment refinement <b>2010</b> ,		42
7	Robust palmprint verification using 2D and 3D features. <i>Pattern Recognition</i> , <b>2010</b> , 43, 358-368	7.7	75
6	A survey of palmprint recognition. <i>Pattern Recognition</i> , <b>2009</b> , 42, 1408-1418	7.7	375
5	Palmprint verification using binary orientation co-occurrence vector. <i>Pattern Recognition Letters</i> , <b>2009</b> , 30, 1219-1227	4.7	181
4	Palmprint verification based on principal lines. <i>Pattern Recognition</i> , <b>2008</b> , 41, 1316-1328	7.7	234
3	Palmprint verification based on robust line orientation code. <i>Pattern Recognition</i> , <b>2008</b> , 41, 1504-1513	7.7	322
2	Palmprint identification using feature-level fusion. <i>Pattern Recognition</i> , <b>2006</b> , 39, 478-487	7.7	251
1	Online palmprint identification. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2003</b> , 25, 1041-1050	13.3	934