Ronald M Summers

List of Publications by Citations

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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	Deep Convolutional Neural Networks for Computer-Aided Detection: CNN Architectures, Dataset Characteristics and Transfer Learning. *IEEE Transactions on Medical Imaging*, **2016**, 35, 1285-98	11.7	2653
80	ChestX-Ray8: Hospital-Scale Chest X-Ray Database and Benchmarks on Weakly-Supervised Classification and Localization of Common Thorax Diseases **2017**,		1020
79	Online palmprint identification. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2003**, 25, 1041-1050	13.3	934
78	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	11.7	908
77	A survey of palmprint recognition. *Pattern Recognition*, **2009**, 42, 1408-1418	7.7	375
76	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	6.4	352
75	Improving Computer-Aided Detection Using Convolutional Neural Networks and Random View Aggregation. *IEEE Transactions on Medical Imaging*, **2016**, 35, 1170-81	11.7	350
74	Palmprint verification based on robust line orientation code. *Pattern Recognition*, **2008**, 41, 1504-1513	7.7	322
73	Deep learning in medical imaging and radiation therapy. *Medical Physics*, **2019**, 46, e1-e36	4.4	294
72	Palmprint identification using feature-level fusion. *Pattern Recognition*, **2006**, 39, 478-487	7.7	251
71	Palmprint verification based on principal lines. *Pattern Recognition*, **2008**, 41, 1316-1328	7.7	234
70	The future of digital health with federated learning. *Npj Digital Medicine*, **2020**, 3, 119	15.7	233
69	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, 520-7	0.9	211
68	Discriminative Transfer Subspace Learning via Low-Rank and Sparse Representation. *IEEE Transactions on Image Processing*, **2016**, 25, 850-63	8.7	186
67	Palmprint verification using binary orientation co-occurrence vector. *Pattern Recognition Letters*, **2009**, 30, 1219-1227	4.7	181
66	Preparing Medical Imaging Data for Machine Learning. *Radiology*, **2020**, 295, 4-15	20.5	175
65	LSDT: Latent Sparse Domain Transfer Learning for Visual Adaptation. *IEEE Transactions on Image Processing*, **2016**, 25, 1177-91	8.7	175

64	Data augmentation using generative adversarial networks (CycleGAN) to improve generalizability in CT segmentation tasks. *Scientific Reports*, **2019**, 9, 16884	4.9	159
63	DeepLesion: automated mining of large-scale lesion annotations and universal lesion detection with deep learning. *Journal of Medical Imaging*, **2018**, 5, 036501	2.6	159
62	A Comparative Study of Palmprint Recognition Algorithms. *ACM Computing Surveys*, **2012**, 44, 1-37	13.4	156
61	Double-orientation code and nonlinear matching scheme for palmprint recognition. *Pattern Recognition*, **2016**, 49, 89-101	7.7	115
60	Learning Domain-Invariant Subspace Using Domain Features and Independence Maximization. *IEEE Transactions on Cybernetics*, **2018**, 48, 288-299	10.2	97
59	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	5.3	90
58	. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2019**, 49, 346-363	7.3	85
57	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	14.3	83
56	Robust palmprint verification using 2D and 3D features. *Pattern Recognition*, **2010**, 43, 358-368	7.7	75
55	Discriminative and Robust Competitive Code for Palmprint Recognition. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 48, 232-241	7.3	68
54	Half-orientation extraction of palmprint features. *Pattern Recognition Letters*, **2016**, 69, 35-41	4.7	67
53	Combining left and right palmprint images for more accurate personal identification. *IEEE Transactions on Image Processing*, **2015**, 24, 549-59	8.7	61
52	Calibration transfer and drift compensation of e-noses via coupled task learning. *Sensors and Actuators B: Chemical*, **2016**, 225, 288-297	8.5	57
51	Manifold Criterion Guided Transfer Learning via Intermediate Domain Generation. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**,	10.3	54
50	Study on novel Curvature Features for 3D fingerprint recognition. *Neurocomputing*, **2015**, 168, 599-608	5.4	53
49	Deep Lesion Graphs in the Wild: Relationship Learning and Organization of Significant Radiology Image Findings in a Diverse Large-Scale Lesion Database **2018**,		50
48	The multiscale competitive code via sparse representation for palmprint verification **2010**,		48
47	Correcting Instrumental Variation and Time-Varying Drift: A Transfer Learning Approach With Autoencoders. *IEEE Transactions on Instrumentation and Measurement*, **2016**, 65, 2012-2022	5.2	48

46	Feature Band Selection for Online Multispectral Palmprint Recognition. *IEEE Transactions on Information Forensics and Security*, **2012**, 7, 1094-1099	8	47
45	Efficient joint 2D and 3D palmprint matching with alignment refinement **2010**,		42
44	Attention-Guided Curriculum Learning for Weakly Supervised Classification and Localization of Thoracic Diseases on Chest Radiographs. *Lecture Notes in Computer Science*, **2018**, 249-258	0.9	37
43	Convolutional Invasion and Expansion Networks for Tumor Growth Prediction. *IEEE Transactions on Medical Imaging*, **2018**, 37, 638-648	11.7	35
42	Improving the transfer ability of prediction models for electronic noses. *Sensors and Actuators B: Chemical*, **2015**, 220, 115-124	8.5	33
41	A sparse representation method of bimodal biometrics and palmprint recognition experiments. *Neurocomputing*, **2013**, 103, 164-171	5.4	33
40	Guide Subspace Learning for Unsupervised Domain Adaptation. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**,	10.3	33
39	Deep Cascade Model based Face Recognition: When Deep-layered Learning Meets Small Data. *IEEE Transactions on Image Processing*, **2019**,	8.7	31
38	. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 48, 242-254	7.3	30
37	Automated classification of benign and malignant cells from lung cytological images using deep convolutional neural network. *Informatics in Medicine Unlocked*, **2019**, 16, 100205	5.3	30
36	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	7.2	28
35	Uldor: A Universal Lesion Detector For Ct Scans With Pseudo Masks And Hard Negative Example Mining **2019**,		25
34	3D palmprint identification combining blocked ST and PCA. *Pattern Recognition Letters*, **2017**, 100, 89-95	4.7	22
33	Complete Binary Representation for 3-D Palmprint Recognition. *IEEE Transactions on Instrumentation and Measurement*, **2018**, 67, 2761-2771	5.2	21
32	Segmentation label propagation using deep convolutional neural networks and dense conditional random field **2016**,		21
31	Unsupervised Joint Mining of Deep Features and Image Labels for Large-Scale Radiology Image Categorization and Scene Recognition **2017**,		20
30	Feature Extraction for 3-D Palmprint Recognition: A Survey. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 1-1	5.2	19
29	DS-TransUNet: Dual Swin Transformer U-Net for Medical Image Segmentation. *IEEE Transactions on Instrumentation and Measurement*, **2022**, 1-1	5.2	17

28	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	3.2	16
27	Learning From Multiple Datasets With Heterogeneous and Partial Labels for Universal Lesion Detection in CT. *IEEE Transactions on Medical Imaging*, **2021**, 40, 2759-2770	11.7	15
26	Correcting Instrumental Variation and Time-Varying Drift Using Parallel and Serial Multitask Learning. *IEEE Transactions on Instrumentation and Measurement*, **2017**, 66, 2306-2316	5.2	13
25	Asymmetric CNN for Image Superresolution. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-13	7.3	13
24	A Novel Multicamera System for High-Speed Touchless Palm Recognition. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 1534-1548	7.3	12
23	SRGC-Nets: Sparse Repeated Group Convolutional Neural Networks. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 2889-2902	10.3	11
22	Facial Expression Recognition in the Wild Using Multi-level Features and Attention Mechanisms. *IEEE Transactions on Affective Computing*, **2020**, 1-1	5.7	10
21	Dual Asymmetric Deep Hashing Learning. *IEEE Access*, **2019**, 7, 113372-113384	3.5	9
20	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	0.9	9
19	Person Recognition Using 3-D Palmprint Data Based on Full-Field Sinusoidal Fringe Projection. *IEEE Transactions on Instrumentation and Measurement*, **2019**, 68, 3287-3298	5.2	9
18	Lesion-Harvester: Iteratively Mining Unlabeled Lesions and Hard-Negative Examples at Scale. *IEEE Transactions on Medical Imaging*, **2021**, 40, 59-70	11.7	8
17	Cross-domain Medical Image Translation by Shared Latent Gaussian Mixture Model. *Lecture Notes in Computer Science*, **2020**, 379-389	0.9	7
16	Optimal Projection Guided Transfer Hashing for Image Retrieval. *IEEE Transactions on Circuits and Systems for Video Technology*, **2020**, 30, 3788-3802	6.4	7
15	Tongue Image Alignment via Conformal Mapping for Disease Detection. *IEEE Access*, **2020**, 8, 9796-9808	3.5	6
14	Deep Volumetric Universal Lesion Detection Using Light-Weight Pseudo 3D Convolution and Surface Point Regression. *Lecture Notes in Computer Science*, **2020**, 3-13	0.9	5
13	Artificial intelligence in radiology **2021**, 265-289		5
12	Multi-Label Chest X-ray Image Classification via Semantic Similarity Graph Embedding. *IEEE Transactions on Circuits and Systems for Video Technology*, **2021**, 1-1	6.4	5
11	Weakly-Supervised Universal Lesion Segmentation with Regional Level Set Loss. *Lecture Notes in Computer Science*, **2021**, 515-525	0.9	4

10	Artificial Intelligence in Lymphoma PET Imaging:: A Scoping Review (Current Trends and Future Directions). *PET Clinics*, **2022**, 17, 145-174	2.2	3
9	Multimodal Emotion Recognition With Temporal and Semantic Consistency. *IEEE/ACM Transactions on Audio Speech and Language Processing*, **2021**, 29, 3592-3603	3.6	3
8	Lesion Segmentation and RECIST Diameter Prediction via Click-Driven Attention and Dual-Path Connection. *Lecture Notes in Computer Science*, **2021**, 341-351	0.9	3
7	. *IEEE Transactions on Multimedia*, **2021**, 1-1	6.6	3
6	3D palmprint identification using blocked histogram and improved sparse representation-based classifier. *Neural Computing and Applications*, **2020**, 32, 12547-12560	4.8	2
5	Global-Local attention network with multi-task uncertainty loss for abnormal lymph node detection in MR images.. *Medical Image Analysis*, **2022**, 77, 102345	15.4	2
4	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*, **2020**, 1-11	7.3	2
3	Influence of sampling rate on voice analysis for assessment of Parkinson\ disease. *Journal of the Acoustical Society of America*, **2018**, 144, 1416	2.2	2
2	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	3.6	
1	Detection of Lymph Nodes in T2 MRI Using Neural Network Ensembles. *Lecture Notes in Computer Science*, **2021**, 682-691	0.9	