

Ronald M Summers

List of Publications by Year in descending order

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348
papers

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19657

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352
times ranked

20057
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	The future of digital health with federated learning. Npj Digital Medicine, 2020, 3, 119.	10.9	887
5	Deep learning in medical imaging and radiation therapy. Medical Physics, 2019, 46, e1-e36.	3.0	513
6	Machine learning and radiology. Medical Image Analysis, 2012, 16, 933-951.	11.6	497
7	Preparing Medical Imaging Data for Machine Learning. Radiology, 2020, 295, 4-15.	7.3	473
8	Improving Computer-Aided Detection Using Convolutional Neural Networks and Random View Aggregation. IEEE Transactions on Medical Imaging, 2016, 35, 1170-1181.	8.9	465
9	Artificial intelligence for the detection of COVID-19 pneumonia on chest CT using multinational datasets. Nature Communications, 2020, 11, 4080.	12.8	405
10	Data augmentation using generative adversarial networks (CycleGAN) to improve generalizability in CT segmentation tasks. Scientific Reports, 2019, 9, 16884.	3.3	360
11	DeepOrgan: Multi-level Deep Convolutional Networks for Automated Pancreas Segmentation. Lecture Notes in Computer Science, 2015, , 556-564.	1.3	347
12	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
13	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
14	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
15	Computed Tomographic Virtual Colonoscopy Computer-Aided Polyp Detection in a Screening Population. Gastroenterology, 2005, 129, 1832-1844.	1.3	273
16	TieNet: Text-Image Embedding Network for Common Thorax Disease Classification and Reporting in Chest X-Rays. , 2018, , .		261
17	Spatial aggregation of holistically-nested convolutional neural networks for automated pancreas localization and segmentation. Medical Image Analysis, 2018, 45, 94-107.	11.6	255
18	Automated Polyp Detection at CT Colonography: Feasibility Assessment in a Human Population. Radiology, 2001, 219, 51-59.	7.3	254

#	ARTICLE	IF	CITATIONS
19	Automated Polyp Detector for CT Colonography: Feasibility Study. Radiology, 2000, 216, 284-290.	7.3	214
20	On the Interpretability of Artificial Intelligence in Radiology: Challenges and Opportunities. Radiology: Artificial Intelligence, 2020, 2, e190043.	5.8	212
21	Learning to Read Chest X-Rays: Recurrent Neural Cascade Model for Automated Image Annotation. , 2016, , .		197
22	Opportunistic Osteoporosis Screening at Routine Abdominal and Thoracic CT: Normative L1 Trabecular Attenuation Values in More than 20 000 Adults. Radiology, 2019, 291, 360-367.	7.3	183
23	Holistic classification of CT attenuation patterns for interstitial lung diseases via deep convolutional neural networks. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2018, 6, 1-6.	1.9	172
24	Accuracy and agreement of PIRADSv2 for prostate cancer mpMRI: A multireader study. Journal of Magnetic Resonance Imaging, 2017, 45, 579-585.	3.4	170
25	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
26	Colonic Polyps: Complementary Role of Computer-aided Detection in CT Colonography. Radiology, 2002, 225, 391-399.	7.3	139
27	A Bottom-Up Approach for Pancreas Segmentation Using Cascaded Superpixels and (Deep) Image Patch Labeling. IEEE Transactions on Image Processing, 2017, 26, 386-399.	9.8	136
28	Automated abnormality classification of chest radiographs using deep convolutional neural networks. Npj Digital Medicine, 2020, 3, 70.	10.9	133
29	Validation of the Dominant Sequence Paradigm and Role of Dynamic Contrast-enhanced Imaging in PI-RADS Version 2. Radiology, 2017, 285, 859-869.	7.3	126
30	CT Colonography with Computer-aided Detection as a Second Reader: Observer Performance Study. Radiology, 2008, 246, 148-156.	7.3	123
31	Abdominal multi-organ segmentation from CT images using conditional shape”location and unsupervised intensity priors. Medical Image Analysis, 2015, 26, 1-18.	11.6	121
32	Vertebral Body Compression Fractures and Bone Density: Automated Detection and Classification on CT Images. Radiology, 2017, 284, 788-797.	7.3	119
33	Automated CT biomarkers for opportunistic prediction of future cardiovascular events and mortality in an asymptomatic screening population: a retrospective cohort study. The Lancet Digital Health, 2020, 2, e192-e200.	12.3	115
34	Automated segmentation and quantification of liver and spleen from CT images using normalized probabilistic atlases and enhancement estimation. Medical Physics, 2010, 37, 771-783.	3.0	113
35	A multi-center milestone study of clinical vertebral CT segmentation. Computerized Medical Imaging and Graphics, 2016, 49, 16-28.	5.8	104
36	Colonic Polyp Segmentation in CT Colonography-Based on Fuzzy Clustering and Deformable Models. IEEE Transactions on Medical Imaging, 2004, 23, 1344-1352.	8.9	102

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37	Tumor Burden Analysis on Computed Tomography by Automated Liver and Tumor Segmentation. IEEE Transactions on Medical Imaging, 2012, 31, 1965-1976.	8.9	102
38	087001.	3.0	102
39	Computer-aided Diagnosis of Pulmonary Infections Using Texture Analysis and Support Vector Machine Classification. Academic Radiology, 2011, 18, 306-314.	2.5	96
40	Effect of Computer-aided Detection for CT Colonography in a Multireader, Multicase Trial. Radiology, 2010, 256, 827-835.	7.3	94
41	Statistical 4D graphs for multi-organ abdominal segmentation from multiphase CT. Medical Image Analysis, 2012, 16, 904-914.	11.6	92
42	A Machine Learning Algorithm to Estimate Sarcopenia on Abdominal CT. Academic Radiology, 2020, 27, 311-320.	2.5	92
43	Evaluation of the Aortic Root by MRI. Circulation, 1998, 98, 509-518.	1.6	91
44	Automated Liver Fat Quantification at Nonenhanced Abdominal CT for Population-based Steatosis Assessment. Radiology, 2019, 293, 334-342.	7.3	91
45	Multiple Neural Network Classification Scheme for Detection of Colonic Polyps in CT Colonography Data Sets. Academic Radiology, 2003, 10, 154-160.	2.5	90
46	Computer Aided-Diagnosis of Prostate Cancer on Multiparametric MRI: A Technical Review of Current Research. BioMed Research International, 2014, 2014, 1-11.	1.9	90
47	Feasibility of Simultaneous Computed Tomographic Colonography and Fully Automated Bone Mineral Densitometry in a Single Examination. Journal of Computer Assisted Tomography, 2011, 35, 212-216.	0.9	88
48	Deep learning-based muscle segmentation and quantification at abdominal CT: application to a longitudinal adult screening cohort for sarcopenia assessment. British Journal of Radiology, 2019, 92, 20190327.	2.2	86
49	A Road Map for Translational Research on Artificial Intelligence in Medical Imaging: From the 2018 National Institutes of Health/RSNA/ACR/The Academy Workshop. Journal of the American College of Radiology, 2019, 16, 1179-1189.	1.8	83
50	Automated prostate cancer detection using T_2 -weighted and high b_0 -value diffusion-weighted magnetic resonance imaging. Medical Physics, 2015, 42, 2368-2378.	3.0	81
51	Deep Lesion Graphs in the Wild: Relationship Learning and Organization of Significant Radiology Image Findings in a Diverse Large-Scale Lesion Database. , 2018, , .		78
52	CT Virtual Bronchoscopy of the Central Airways in Patients With Wegener's Granulomatosis. Chest, 2002, 121, 242-250.	0.8	76
53	Computer-assisted detection of colonic polyps with CT colonography using neural networks and binary classification trees. Medical Physics, 2002, 30, 52-60.	3.0	75
54	Interreader Variability of Prostate Imaging Reporting and Data System Version 2 in Detecting and Assessing Prostate Cancer Lesions at Prostate MRI. American Journal of Roentgenology, 2019, 212, 1197-1205.	2.2	75

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55	Hybrid segmentation of colon filled with air and opacified fluid for CT colonography. IEEE Transactions on Medical Imaging, 2006, 25, 358-368.	8.9	74
56	Distributed Human Intelligence for Colonic Polyp Classification in Computer-aided Detection for CT Colonography. Radiology, 2012, 262, 824-833.	7.3	73
57	Automated Abdominal CT Imaging Biomarkers for Opportunistic Prediction of Future Major Osteoporotic Fractures in Asymptomatic Adults. Radiology, 2020, 297, 64-72.	7.3	72
58	Progress in Fully Automated Abdominal CT Interpretation. American Journal of Roentgenology, 2016, 207, 67-79.	2.2	71
59	Road Maps for Advancement of Radiologic Computer-aided Detection in the 21st Century. Radiology, 2003, 229, 11-13.	7.3	70
60	Computer-Aided Detection of Polyps on Oral Contrast-Enhanced CT Colonography. American Journal of Roentgenology, 2005, 184, 105-108.	2.2	68
61	Support vector machines committee classification method for computer-aided polyp detection in CT colonography. Academic Radiology, 2005, 12, 479-486.	2.5	68
62	Computer-aided diagnosis prior to conventional interpretation of prostate mpMRI: an international multi-reader study. European Radiology, 2018, 28, 4407-4417.	4.5	68
63	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
64	Can computer-aided diagnosis assist in the identification of prostate cancer on prostate MRI? a multi-center, multi-reader investigation. Oncotarget, 2018, 9, 33804-33817.	1.8	65
65	Lytic Metastases in Thoracolumbar Spine: Computer-aided Detection at CT-Preliminary Study. Radiology, 2007, 242, 811-816.	7.3	64
66	Polyp Size Measurement at CT Colonography: What Do We Know and What Do We Need to Know?. Radiology, 2010, 255, 707-720.	7.3	63
67	Population-based opportunistic osteoporosis screening: Validation of a fully automated CT tool for assessing longitudinal BMD changes. British Journal of Radiology, 2019, 92, 20180726.	2.2	61
68	Fully automated segmentation and quantification of visceral and subcutaneous fat at abdominal CT: application to a longitudinal adult screening cohort. British Journal of Radiology, 2018, 91, 20170968.	2.2	58
69	Patient specific tumor growth prediction using multimodal images. Medical Image Analysis, 2014, 18, 555-566.	11.6	57
70	Automated Detection, Localization, and Classification of Traumatic Vertebral Body Fractures in the Thoracic and Lumbar Spine at CT. Radiology, 2016, 278, 64-73.	7.3	57
71	Automated segmentation and quantification of aortic calcification at abdominal CT: application of a deep learning-based algorithm to a longitudinal screening cohort. Abdominal Radiology, 2019, 44, 2921-2928.	2.1	56
72	Automated Detection of Sclerotic Metastases in the Thoracolumbar Spine at CT. Radiology, 2013, 268, 69-78.	7.3	55

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73	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
74	Automatic magnetic resonance prostate segmentation by deep learning with holistically nested networks. Journal of Medical Imaging, 2017, 4, 1.	1.5	55
75	Detection of Vertebral Body Fractures Based on Cortical Shell Unwrapping. Lecture Notes in Computer Science, 2012, 15, 509-516.	1.3	53
76	Opportunistic Screening at Abdominal CT: Use of Automated Body Composition Biomarkers for Added Cardiometabolic Value. Radiographics, 2021, 41, 524-542.	3.3	53
77	Interleaved text/image Deep Mining on a large-scale radiology database. , 2015, , .		52
78	MULAN: Multitask Universal Lesion Analysis Network for Joint Lesion Detection, Tagging, and Segmentation. Lecture Notes in Computer Science, 2019, , 194-202.	1.3	49
79	Texture analysis in radiology: Does the emperor have no clothes?. Abdominal Radiology, 2017, 42, 342-345.	2.1	48
80	Assessing Splenomegaly. Academic Radiology, 2013, 20, 675-684.	2.5	47
81	Oral Contrast Adherence to Polyps on CT Colonography. Journal of Computer Assisted Tomography, 2006, 30, 51-57.	0.9	45
82	Performance of a Previously Validated CT Colonography Computer-Aided Detection System in a New Patient Population. American Journal of Roentgenology, 2008, 191, 168-174.	2.2	45
83	Detection and diagnosis of colitis on computed tomography using deep convolutional neural networks. Medical Physics, 2017, 44, 4630-4642.	3.0	43
84	Mediastinal lymph node detection and station mapping on chest CT using spatial priors and random forest. Medical Physics, 2016, 43, 4362-4374.	3.0	42
85	Automatic multi-resolution shape modeling of multi-organ structures. Medical Image Analysis, 2015, 25, 11-21.	11.6	41
86	A deep learning system for automated kidney stone detection and volumetric segmentation on noncontrast CT scans. Medical Physics, 2022, 49, 2545-2554.	3.0	40
87	Automatic Correction of Level Set Based Subvoxel Precise Centerlines for Virtual Colonoscopy Using the Colon Outer Wall. IEEE Transactions on Medical Imaging, 2007, 26, 1069-1078.	8.9	39
88	Spatio-Temporal Convolutional LSTMs for Tumor Growth Prediction by Learning 4D Longitudinal Patient Data. IEEE Transactions on Medical Imaging, 2020, 39, 1114-1126.	8.9	39
89	Systematic evaluation of iterative deep neural networks for fast parallel MRI reconstruction with sensitivity-weighted coil combination. Magnetic Resonance in Medicine, 2021, 86, 1859-1872.	3.0	39
90	CT Colonography with Computer-aided Detection: Automated Recognition of Ileocecal Valve to Reduce Number of False-Positive Detections. Radiology, 2004, 233, 266-272.	7.3	38

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91	Polyps: Linear and Volumetric Measurement at CT Colonography. Radiology, 2006, 241, 802-811.	7.3	38
92	Renal tumor quantification and classification in contrast-enhanced abdominal CT. Pattern Recognition, 2009, 42, 1149-1161.	8.1	38
93	Employing topographical height map in colonic polyp measurement and false positive reduction. Pattern Recognition, 2009, 42, 1029-1040.	8.1	38
94	Combining fully convolutional networks and graph-based approach for automated segmentation of cervical cell nuclei. , 2017, , .		38
95	Uldor: A Universal Lesion Detector For Ct Scans With Pseudo Masks And Hard Negative Example Mining. , 2019, , .		38
96	2D View Aggregation for Lymph Node Detection Using a Shallow Hierarchy of Linear Classifiers. Lecture Notes in Computer Science, 2014, 17, 544-552.	1.3	38
97	MR Microscopy of the Rat Carotid Artery after Balloon Injury by Using an Implanted Imaging Coil. Magnetic Resonance in Medicine, 1995, 33, 785-789.	3.0	37
98	Improved classifier for computer-aided polyp detection in CT Colonography by nonlinear dimensionality reduction. Medical Physics, 2008, 35, 1377-1386.	3.0	37
99	Prostate cancer detection from multi-institution multiparametric MRIs using deep convolutional neural networks. Journal of Medical Imaging, 2018, 5, 1.	1.5	37
100	Teniae Coli-based Circumferential Localization System for CT Colonography: Feasibility Study. Radiology, 2007, 243, 551-560.	7.3	36
101	Mesenteric Vasculature-Guided Small Bowel Segmentation on 3-D CT. IEEE Transactions on Medical Imaging, 2013, 32, 2006-2021.	8.9	36
102	A computer simulation of nuclear magnetic resonance imaging. Magnetic Resonance in Medicine, 1986, 3, 363-376.	3.0	35
103	Detection of Sclerotic Spine Metastases via Random Aggregation of Deep Convolutional Neural Network Classifications. Lecture Notes in Computational Vision and Biomechanics, 2015, , 3-12.	0.5	34
104	Surface curvature estimation for automatic colonic polyp detection. , 2005, , .		33
105	Computer Aided Evaluation of Ankylosing Spondylitis Using High-Resolution CT. IEEE Transactions on Medical Imaging, 2008, 27, 1252-1267.	8.9	33
106	Strategies for improved interpretation of computer-aided detections for CT colonography utilizing distributed human intelligence. Medical Image Analysis, 2012, 16, 1280-1292.	11.6	33
107	Detection of prostate cancer in multiparametric MRI using random forest with instance weighting. Journal of Medical Imaging, 2017, 4, 024506.	1.5	33
108	Fully automated CT imaging biomarkers of bone, muscle, and fat: correcting for the effect of intravenous contrast. Abdominal Radiology, 2021, 46, 1229-1235.	2.1	32

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109	Artificial Intelligence of COVID-19 Imaging: A Hammer in Search of a Nail. Radiology, 2021, 298, E162-E164.	7.3	32
110	Liver Steatosis Categorization on Contrast-Enhanced CT Using a Fully Automated Deep Learning Volumetric Segmentation Tool: Evaluation in 1204 Healthy Adults Using Unenhanced CT as a Reference Standard. American Journal of Roentgenology, 2021, 217, 359-367.	2.2	31
111	Feature selection for computer-aided polyp detection using genetic algorithms. , 2003, , .		30
112	Convolutional neural network based deep-learning architecture for prostate cancer detection on multiparametric magnetic resonance images. Proceedings of SPIE, 2017, , .	0.8	30
113	A disentangled generative model for disease decomposition in chest X-rays via normal image synthesis. Medical Image Analysis, 2021, 67, 101839.	11.6	30
114	Multicenter Multireader Evaluation of an Artificial Intelligenceâ€‘Based Attention Mapping System for the Detection of Prostate Cancer With Multiparametric MRI. American Journal of Roentgenology, 2020, 215, 903-912.	2.2	29
115	E\$^2\$Net: An Edge Enhanced Network for Accurate Liver and Tumor Segmentation on CT Scans. Lecture Notes in Computer Science, 2020, , 512-522.	1.3	29
116	Virtual bronchoscopy for evaluation of airway disease. Thoracic Surgery Clinics, 2004, 14, 79-86.	1.0	28
117	Optimizing area under the ROC curve using semi-supervised learning. Pattern Recognition, 2015, 48, 276-287.	8.1	28
118	Biopsy-guided learning with deep convolutional neural networks for Prostate Cancer detection on multiparametric MRI. , 2017, , .		28
119	Discriminative ensemble learning for few-shot chest x-ray diagnosis. Medical Image Analysis, 2021, 68, 101911.	11.6	28
120	Automated centerline for computed tomography colonography1. Academic Radiology, 2003, 10, 1291-1301.	2.5	27
121	3527-3538.	3.0	27
122	Automated noninvasive classification of renal cancer on multiphase CT. Medical Physics, 2011, 38, 5738-5746.	3.0	27
123	Tumor growth prediction with reaction-diffusion and hyperelastic biomechanical model by physiological data fusion. Medical Image Analysis, 2015, 25, 72-85.	11.6	27
124	Computer-aided detection of exophytic renal lesions on non-contrast CT images. Medical Image Analysis, 2015, 19, 15-29.	11.6	27
125	Artificial Intelligence in Musculoskeletal Imaging: A Paradigm Shift. Journal of Bone and Mineral Research, 2020, 35, 28-35.	2.8	27
126	Automated seed placement for colon segmentation in computed tomography colonography1. Academic Radiology, 2005, 12, 182-190.	2.5	26

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127	Normalized Distance Along the Colon Centerline: A Method for Correlating Polyp Location on CT Colonography and Optical Colonoscopy. American Journal of Roentgenology, 2009, 193, 1296-1304.	2.2	26
128	Association Between Visceral Adiposity and Colorectal Polyps on CT Colonography. American Journal of Roentgenology, 2012, 199, 48-57.	2.2	26
129	Assessing Hepatomegaly. Academic Radiology, 2012, 19, 588-598.	2.5	26
130	Unsupervised Joint Mining of Deep Features and Image Labels for Large-Scale Radiology Image Categorization and Scene Recognition. , 2017, , .		26
131	Utilizing Fully Automated Abdominal CT-Based Biomarkers for Opportunistic Screening for Metabolic Syndrome in Adults Without Symptoms. American Journal of Roentgenology, 2021, 216, 85-92.	2.2	26
132	Trustworthy Artificial Intelligence in Medical Imaging. PET Clinics, 2022, 17, 1-12.	3.0	26
133	Unsupervised body part regression via spatially self-ordering convolutional neural networks. , 2018, , .		25
134	Reduction of false positives on the rectal tube in computer-aided detection for CT colonography. Medical Physics, 2004, 31, 2855-2862.	3.0	24
135	Leveraging Mid-Level Semantic Boundary Cues for Automated Lymph Node Detection. Lecture Notes in Computer Science, 2015, , 53-61.	1.3	24
136	CT-realistic data augmentation using generative adversarial network for robust lymph node segmentation. , 2019, , .		24
137	Improving the Accuracy of CTC Interpretation: Computer-Aided Detection. Gastrointestinal Endoscopy Clinics of North America, 2010, 20, 245-257.	1.4	23
138	Visceral fat quantification in asymptomatic adults using abdominal CT: is it predictive of future cardiac events?. Abdominal Imaging, 2015, 40, 222-226.	2.0	23
139	Deep convolutional networks for automated detection of posterior-element fractures on spine CT. Proceedings of SPIE, 2016, , .	0.8	23
140	Fully Automated Deep Learning Tool for Sarcopenia Assessment on CT: L1 Versus L3 Vertebral Level Muscle Measurements for Opportunistic Prediction of Adverse Clinical Outcomes. American Journal of Roentgenology, 2022, 218, 124-131.	2.2	23
141	Artificial Intelligence in Lymphoma PET Imaging. PET Clinics, 2022, 17, 145-174.	3.0	23
142	The flip-angle effect: A method for detection of sodium-23 quadrupole splitting in tissue. Magnetic Resonance in Medicine, 1987, 4, 67-77.	3.0	22
143	CT Colonography with Computer-aided Polyp Detection: Volume and Attenuation Thresholds to Reduce False-Positive Findings Owing to the Ileocecal Valve. Radiology, 2006, 241, 426-432.	7.3	22
144	A prostate cancer computer-aided diagnosis system using multimodal magnetic resonance imaging and targeted biopsy labels. , 2013, , .		22

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145	Atherosclerotic Plaque Burden on Abdominal CT: Automated Assessment With Deep Learning on Noncontrast and Contrast-enhanced Scans. Academic Radiology, 2021, 28, 1491-1499.	2.5	22
146	Scale-based scatter correction for computer-aided polyp detection in CT colonography. Medical Physics, 2008, 35, 5664-5671.	3.0	21
147	Registration of prone and supine CT colonography scans using correlation optimized warping and canonical correlation analysis. Medical Physics, 2009, 36, 5595-5603.	3.0	21
148	Optimizing the support vector machines (SVM) committee configuration in a colonic polyp CAD system. , 2005, , .		20
149	Current Status of CT Colonography. Academic Radiology, 2006, 13, 1517-1531.	2.5	20
150	Deep Learning CT-based Quantitative Visualization Tool for Liver Volume Estimation: Defining Normal and Hepatomegaly. Radiology, 2022, 302, 336-342.	7.3	20
151	Conspicuity of Colorectal Polyps at CT Colonography. Academic Radiology, 2009, 16, 4-14.	2.5	19
152	Reversible Projection Technique for Colon Unfolding. IEEE Transactions on Biomedical Engineering, 2010, 57, 2861-2869.	4.2	19
153	COMBINING STATISTICAL AND GEOMETRIC FEATURES FOR COLONIC POLYP DETECTION IN CTC BASED ON MULTIPLE KERNEL LEARNING. International Journal of Computational Intelligence and Applications, 2010, 09, 1-15.	0.8	19
154	Generalized Zero-Shot Chest X-Ray Diagnosis Through Trait-Guided Multi-View Semantic Embedding With Self-Training. IEEE Transactions on Medical Imaging, 2021, 40, 2642-2655.	8.9	19
155	Multi-organ automatic segmentation in 4D contrast-enhanced abdominal CT. , 2008, , .		18
156	Automated Measurement of Colorectal Polyp Height at CT Colonography: Hyperplastic Polyps Are Flatter Than Adenomatous Polyps. American Journal of Roentgenology, 2009, 193, 1305-1310.	2.2	18
157	Skeletal Muscle Magnetic Resonance Biomarkers in GNE Myopathy. Neurology, 2021, 96, e798-e808.	1.1	18
158	Abdominal Multi-organ CT Segmentation Using Organ Correlation Graph and Prediction-Based Shape and Location Priors. Lecture Notes in Computer Science, 2013, 16, 275-282.	1.3	18
159	NegBio: a high-performance tool for negation and uncertainty detection in radiology reports. AMIA Summits on Translational Science Proceedings, 2018, 2017, 188-196.	0.4	18
160	Automated detection of blob structures by Hessian analysis and object scale. , 2010, , .		17
161	Regional infarction identification from cardiac CT images: a computer-aided biomechanical approach. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 1573-1583.	2.8	17
162	Comparative Evaluation of Three Software Packages for Liver and Spleen Segmentation and Volumetry. Academic Radiology, 2017, 24, 831-839.	2.5	17

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163	Computer-aided detection of renal calculi from noncontrast CT images using TV-flow and MSER features. Medical Physics, 2015, 42, 144-153.	3.0	16
164	Technical and Clinical Factors Affecting Success Rate of a Deep Learning Method for Pancreas Segmentation on CT. Academic Radiology, 2020, 27, 689-695.	2.5	16
165	Comparative Performance of Two Polyp Detection Systems on CT Colonography. American Journal of Roentgenology, 2007, 189, 277-282.	2.2	14
166	Adaptive deformable model for colonic polyp segmentation and measurement on CT colonography. Medical Physics, 2007, 34, 1655-1664.	3.0	14
167	Optimizing computer-aided colonic polyp detection for CT colonography by evolving the Pareto	3.0	14
168	Anatomical variability of organs via principal factor analysis from the construction of an abdominal probabilistic atlas. , 2009, 2009, 682-685.		14
169	Improved computer-aided detection of small polyps in CT colonography using interpolation for	3.0	14
170	A self-attention based deep learning method for lesion attribute detection from CT reports. , 2019, , .		14
171	Deep Small Bowel Segmentation with Cylindrical Topological Constraints. Lecture Notes in Computer Science, 2020, 12264, 207-215.	1.3	14
172	One Click Lesion RECIST Measurement and Segmentation on CT Scans. Lecture Notes in Computer Science, 2020, , 573-583.	1.3	14
173	Holistic Segmentation of Intermuscular Adipose Tissues on Thigh MRI. Lecture Notes in Computer Science, 2017, , 737-745.	1.3	14
174	Fully automated prostate whole gland and central gland segmentation on MRI using holistically nested networks with short connections. Journal of Medical Imaging, 2019, 6, 1.	1.5	14
175	Fully Automated Abdominal CT Biomarkers for Type 2 Diabetes Using Deep Learning. Radiology, 2022, 304, 85-95.	7.3	14
176	Sodium NMR imaging of lung water in rats. Magnetic Resonance in Medicine, 1988, 6, 381-389.	3.0	13
177	Quality Assessment for CT Colonography: Validation of Automated Measurement of Colonic Distention and Residual Fluid. American Journal of Roentgenology, 2007, 189, 1457-1463.	2.2	13
178	Temporal and Multiinstitutional Quality Assessment of CT Colonography. American Journal of Roentgenology, 2008, 191, 1503-1508.	2.2	13
179	Seeing Is Believing: Video Classification for Computed Tomographic Colonography Using Multiple-Instance Learning. IEEE Transactions on Medical Imaging, 2012, 31, 1141-1153.	8.9	13
180	Tumor sensitive matching flow: A variational method to detecting and segmenting perihepatic and perisplenic ovarian cancer metastases on contrast-enhanced abdominal CT. Medical Image Analysis, 2014, 18, 725-739.	11.6	13

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181	Clinical Artificial Intelligence Applications in Radiology. Radiologic Clinics of North America, 2021, 59, 987-1002.	1.8	13
182	Artificial Intelligence in Medical Imaging and its Impact on the Rare Disease Community: Threats, Challenges and Opportunities. PET Clinics, 2022, 17, 13-29.	3.0	13
183	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
184	Automated CT-Based Body Composition Analysis: A Golden Opportunity. Korean Journal of Radiology, 2021, 22, 1934.	3.4	13
185	Image gallery: A tool for rapid endobronchial lesion detection and display using virtual bronchoscopy. Journal of Digital Imaging, 1998, 11, 53-55.	2.9	12
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