Ronald M Summers

List of Publications by Year
in descending order

348 papers	22,447 citations	19657 61 h-index	12946 131 g-index
352 all docs	352 docs citations	352 times ranked	20057 citing authors

#	Article	IF	Citations
1	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
2	Deep Learning CT-based Quantitative Visualization Tool for Liver Volume Estimation: Defining Normal and Hepatomegaly. Radiology, 2022, 302, 336-342.	7.3	20
3	Trustworthy Artificial Intelligence in Medical Imaging. PET Clinics, 2022, 17, 1-12.	3.0	26
4	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
5	Applications of Artificial Intelligence in 18F-Sodium Fluoride Positron Emission Tomography/Computed Tomography. PET Clinics, 2022, 17, 115-135.	3.0	4
6	Artificial Intelligence in Lymphoma PET Imaging. PET Clinics, 2022, 17, 145-174.	3.0	23
7	Hepatic Steatosis: CT-Based Prevalence in Adults in China and the United States and Associations With Age, Sex, and Body Mass Index. American Journal of Roentgenology, 2022, 218, 846-857.	2.2	4
8	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
9	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
10	Assessment of Aortoiliac Atherosclerotic Plaque on CT in Prostate Cancer Patients Undergoing Treatment. Tomography, 2022, 8, 607-616.	1.8	0
11	Lymph node detection in T2 MRI with transformers. , 2022, , .		8
12	Fully Automated Abdominal CT Biomarkers for Type 2 Diabetes Using Deep Learning. Radiology, 2022, 304, 85-95.	7.3	14
13	Cardiovascular disease and all-cause mortality risk prediction from abdominal CT using deep learning. , 2022, , .		2
14	Graph-Based Small Bowel Path Tracking with Cylindrical Constraints. , 2022, , .		3
15	Skeletal Muscle Magnetic Resonance Biomarkers in GNE Myopathy. Neurology, 2021, 96, e798-e808.	1.1	18
16	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
17	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
18	Utilizing Fully Automated Abdominal CTâ€"Based Biomarkers for Opportunistic Screening for Metabolic Syndrome in Adults Without Symptoms. American Journal of Roentgenology, 2021, 216, 85-92.	2.2	26

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19	A disentangled generative model for disease decomposition in chest X-rays via normal image synthesis. Medical Image Analysis, 2021, 67, 101839.	11.6	30
20	Nomograms for Automated Body Composition Analysis: A Crucial Step for Routine Clinical Implementation. Radiology, 2021, 298, 330-331.	7.3	2
21	Discriminative ensemble learning for few-shot chest x-ray diagnosis. Medical Image Analysis, 2021, 68, 101911.	11.6	28
22	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
23	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
24	Automated assessment of longitudinal biomarker changes at abdominal CT: correlation with subsequent cardiovascular events in an asymptomatic adult screening cohort. Abdominal Radiology, 2021, 46, 2976-2984.	2.1	6
25	Opportunistic Screening at Abdominal CT: Use of Automated Body Composition Biomarkers for Added Cardiometabolic Value. Radiographics, 2021, 41, 524-542.	3.3	53
26	Artificial Intelligence of COVID-19 Imaging: A Hammer in Search of a Nail. Radiology, 2021, 298, E162-E164.	7.3	32
27	Imaging Biomarkers to Assess Response to Immune Checkpoint Inhibitors in Solid Tumors to Tailor Therapy. Radiology, 2021, 299, 120-121.	7.3	0
28	Learning Few-Shot Chest X-Ray Diagnosis Using Images From The Published Scientific Literature. , 2021, , .		3
29	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
30	CT Evaluation of Lymph Nodes That Merge or Split during the Course of a Clinical Trial: Limitations of RECIST 1.1. Radiology Imaging Cancer, 2021, 3, e200090.	1.6	8
31	Systematic evaluation of iterative deep neural networks for fast parallel MRI reconstruction with sensitivityâ€weighted coil combination. Magnetic Resonance in Medicine, 2021, 86, 1859-1872.	3.0	39
32	Use of Variational Autoencoders with Unsupervised Learning to Detect Incorrect Organ Segmentations at CT. Radiology: Artificial Intelligence, 2021, 3, e200218.	5.8	10
33	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
34	Detection of Lymph Nodes in T2 MRI Using Neural Network Ensembles. Lecture Notes in Computer Science, 2021, , 682-691.	1.3	2
35	Clinical Artificial Intelligence Applications in Radiology. Radiologic Clinics of North America, 2021, 59, 987-1002.	1.8	13
36	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

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37	Automated CT-Based Body Composition Analysis: A Golden Opportunity. Korean Journal of Radiology, 2021, 22, 1934.	3.4	13
38	A Machine Learning Algorithm to Estimate Sarcopenia on Abdominal CT. Academic Radiology, 2020, 27, 311-320.	2.5	92
39	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
40	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
41	Artificial Intelligence in Musculoskeletal Imaging: A Paradigm Shift. Journal of Bone and Mineral Research, 2020, 35, 28-35.	2.8	27
42	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
43	Automated Abdominal CT Imaging Biomarkers for Opportunistic Prediction of Future Major Osteoporotic Fractures in Asymptomatic Adults. Radiology, 2020, 297, 64-72.	7.3	72
44	Artificial intelligence for the detection of COVID-19 pneumonia on chest CT using multinational datasets. Nature Communications, 2020, 11, 4080.	12.8	405
45	Weakly Supervised Lesion Co-Segmentation on Ct Scans. , 2020, , .		4
46	The future of digital health with federated learning. Npj Digital Medicine, 2020, 3, 119.	10.9	887
47	On the Interpretability of Artificial Intelligence in Radiology: Challenges and Opportunities. Radiology: Artificial Intelligence, 2020, 2, e190043.	5.8	212
48	Adult patient-specific CT organ dose estimations using automated segmentations and Monte Carlo simulations. Biomedical Physics and Engineering Express, 2020, 6, 045016.	1.2	4
49	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
50	Preparing Medical Imaging Data for Machine Learning. Radiology, 2020, 295, 4-15.	7.3	473
51	Deep Small Bowel Segmentation with Cylindrical Topological Constraints. Lecture Notes in Computer Science, 2020, 12264, 207-215.	1.3	14
52	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
53	One Click Lesion RECIST Measurement and Segmentation on CT Scans. Lecture Notes in Computer Science, 2020, , 573-583.	1.3	14
54	Image-Level Harmonization of Multi-site Data Using Image-and-Spatial Transformer Networks. Lecture Notes in Computer Science, 2020, , 710-719.	1.3	9

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55	Automated abnormality classification of chest radiographs using deep convolutional neural networks. Npj Digital Medicine, 2020, 3, 70.	10.9	133
56	The Evolving Status of Radiomics. Journal of the National Cancer Institute, 2020, 112, 869-870.	6.3	8
57	Bone suppression on chest radiographs with adversarial learning. , 2020, , .		4
58	Accurately identifying vertebral levels in large datasets. , 2020, , .		4
59	Multilevel UNet for pancreas segmentation from non-contrast CT scans through domain adaptation. , 2020, , .		6
60	Are we at a crossroads or a plateau? Radiomics and machine learning in abdominal oncology imaging. Abdominal Radiology, 2019, 44, 1985-1989.	2.1	12
61	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
62	Data augmentation using generative adversarial networks (CycleGAN) to improve generalizability in CT segmentation tasks. Scientific Reports, 2019, 9, 16884.	3.3	360
63	Fine-Grained Lesion Annotation in CT Images With Knowledge Mined From Radiology Reports. , 2019, , .		0
64	A Semi-Supervised CNN Learning Method with Pseudo-class Labels for Atherosclerotic Vascular Calcification Detection. , 2019, , .		8
65	Segmenting The Kidney On CT Scans Via Crowdsourcing. , 2019, , .		4
66	Uldor: A Universal Lesion Detector For Ct Scans With Pseudo Masks And Hard Negative Example Mining. , 2019, , .		38
67	Automated Liver Fat Quantification at Nonenhanced Abdominal CT for Population-based Steatosis Assessment. Radiology, 2019, 293, 334-342.	7.3	91
68	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
69	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
70	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
71	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
72	A self-attention based deep learning method for lesion attribute detection from CT reports. , 2019, , .		14

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73	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
74	Deep learning in medical imaging and radiation therapy. Medical Physics, 2019, 46, e1-e36.	3.0	513
75	MULAN: Multitask Universal Lesion Analysis Network for Joint Lesion Detection, Tagging, and Segmentation. Lecture Notes in Computer Science, 2019, , 194-202.	1.3	49
76	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
77	CT-realistic data augmentation using generative adversarial network for robust lymph node segmentation. , 2019, , .		24
78	Automatic Classification and Reporting of Multiple Common Thorax Diseases Using Chest Radiographs. Advances in Computer Vision and Pattern Recognition, 2019, , 393-412.	1.3	1
79	Computer-aided diagnosis prior to conventional interpretation of prostate mpMRI: an international multi-reader study. European Radiology, 2018, 28, 4407-4417.	4.5	68
80	Spatial aggregation of holistically-nested convolutional neural networks for automated pancreas localization and segmentation. Medical Image Analysis, 2018, 45, 94-107.	11.6	255
81	Deep Learning Lends a Hand to Pediatric Radiology. Radiology, 2018, 287, 323-325.	7.3	12
82	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
83	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
84	An analysis of robust cost functions for CNN in computer-aided diagnosis. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2018, 6, 253-258.	1.9	11
85	Tracking diaphragm and chest wall movement on cine-MRI. , 2018, , .		0
86	Deep Lesion Graphs in the Wild: Relationship Learning and Organization of Significant Radiology Image Findings in a Diverse Large-Scale Lesion Database. , 2018, , .		78
87	TieNet: Text-Image Embedding Network for Common Thorax Disease Classification and Reporting in Chest X-Rays. , 2018, , .		261
88	A Decomposable Model for the Detection of Prostate Cancer in Multi-parametric MRI. Lecture Notes in Computer Science, 2018, , 930-939.	1.3	5
89	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
90	Cascaded coarse-to-fine convolutional neural networks for pericardial effusion localization and segmentation on CT scans. , 2018, , .		9

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91	Unsupervised body part regression via spatially self-ordering convolutional neural networks. , 2018, , .		25
92	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
93	Prostate cancer detection from multi-institution multiparametric MRIs using deep convolutional neural networks. Journal of Medical Imaging, 2018, 5, 1.	1.5	37
94	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
95	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
96	Comparative Evaluation of Three Software Packages for Liver and Spleen Segmentation and Volumetry. Academic Radiology, 2017, 24, 831-839.	2.5	17
97	Unsupervised Joint Mining of Deep Features and Image Labels for Large-Scale Radiology Image Categorization and Scene Recognition. , 2017, , .		26
98	Convolutional neural network based deep-learning architecture for prostate cancer detection on multiparametric magnetic resonance images. Proceedings of SPIE, 2017, , .	0.8	30
99	Detection of prostate cancer in multiparametric MRI using random forest with instance weighting. Journal of Medical Imaging, 2017, 4, 024506.	1.5	33
100	Medical Image Data and Datasets in the Era of Machine Learningâ€"Whitepaper from the 2016 C-MIMI Meeting Dataset Session. Journal of Digital Imaging, 2017, 30, 392-399.	2.9	140
101	Combining fully convolutional networks and graph-based approach for automated segmentation of cervical cell nuclei. , 2017, , .		38
102	Mixed spine metastasis detection through positron emission tomography/computed tomography synthesis and multiclassifier. Journal of Medical Imaging, 2017, 4, 024504.	1.5	8
103	Detection and diagnosis of colitis on computed tomography using deep convolutional neural networks. Medical Physics, 2017, 44, 4630-4642.	3.0	43
104	Vertebral Body Compression Fractures and Bone Density: Automated Detection and Classification on CT Images. Radiology, 2017, 284, 788-797.	7.3	119
105	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
106	Biopsy-guided learning with deep convolutional neural networks for Prostate Cancer detection on multiparametric MRI. , 2017, , .		28
107	Deep learning with orthogonal volumetric HED segmentation and 3D surface reconstruction model of prostate MRI. , 2017, , .		11
108	Texture analysis in radiology: Does the emperor have no clothes?. Abdominal Radiology, 2017, 42, 342-345.	2.1	48

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109	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
110	Accuracy and agreement of PIRADSv2 for prostate cancer mpMRI: A multireader study. Journal of Magnetic Resonance Imaging, 2017, 45, 579-585.	3.4	170
111	ChestX-Ray8: Hospital-Scale Chest X-Ray Database and Benchmarks on Weakly-Supervised Classification and Localization of Common Thorax Diseases. , 2017, , .		2,038
112	Adipose Tissue Measurement Using Magnetic Resonance Imaging: A Survey. Current Medical Imaging, 2017, 13, .	0.8	0
113	Holistic segmentation of the lung in cine MRI. Journal of Medical Imaging, 2017, 4, 1.	1.5	9
114	Deep Learning and Computer-Aided Diagnosis for Medical Image Processing: A Personal Perspective. Advances in Computer Vision and Pattern Recognition, 2017, , 3-10.	1.3	9
115	Efficient False Positive Reduction in Computer-Aided Detection Using Convolutional Neural Networks and Random View Aggregation. Advances in Computer Vision and Pattern Recognition, 2017, , 35-48.	1.3	4
116	Holistic Segmentation of Intermuscular Adipose Tissues on Thigh MRI. Lecture Notes in Computer Science, 2017, , 737-745.	1.3	14
117	Automatic magnetic resonance prostate segmentation by deep learning with holistically nested networks. Journal of Medical Imaging, 2017, 4, 1.	1.5	55
118	Colitis detection on computed tomography using regional convolutional neural networks. , 2016, , .		7
119	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
120	Learning to Read Chest X-Rays: Recurrent Neural Cascade Model for Automated Image Annotation. , 2016, , .		197
121	A multi-center milestone study of clinical vertebral CT segmentation. Computerized Medical Imaging and Graphics, 2016, 49, 16-28.	5.8	104
122	Progress in Fully Automated Abdominal CT Interpretation. American Journal of Roentgenology, 2016, 207, 67-79.	2.2	71
123	Multi-atlas Segmentation with Joint Label Fusion of Osteoporotic Vertebral Compression Fractures on CT. Lecture Notes in Computer Science, 2016, , 74-84.	1.3	7
124	Improving vertebra segmentation through joint vertebra-rib atlases. Proceedings of SPIE, 2016, , .	0.8	2
125	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
126	Deep convolutional networks for automated detection of posterior-element fractures on spine CT. Proceedings of SPIE, 2016, , .	0.8	23

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127	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
128	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
129	Open-Source Radiation Exposure Extraction Engine (RE3) with Patient-Specific Outlier Detection. Journal of Digital Imaging, 2016, 29, 406-419.	2.9	6
130	Retrieval, visualization, and mining of large radiation dosage data. Information Retrieval, 2016, 19, 38-58.	2.0	3
131	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
132	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
133	Soft Multi-organ Shape Models via Generalized PCA: A General Framework. Lecture Notes in Computer Science, 2016, , 219-228.	1.3	10
134	Detection of Degenerative Osteophytes of the Spine on PET/CT Using Region-Based Convolutional Neural Networks. Lecture Notes in Computer Science, 2016, , 116-124.	1.3	3
135	Computerâ€aided detection of renal calculi from noncontrast CT images using TVâ€flow and MSER features. Medical Physics, 2015, 42, 144-153.	3.0	16
136	Automatic identification of IASLC-defined mediastinal lymph node stations on CT scans using multi-atlas organ segmentation. Proceedings of SPIE, 2015, , .	0.8	2
137	Automated segmentation of the thyroid gland on thoracic CT scans by multiatlas label fusion and random forest classification. Journal of Medical Imaging, 2015, 2, 044006.	1.5	7
138	Interleaved text/image Deep Mining on a large-scale radiology database. , 2015, , .		52
139	Computer Aided Detection of Bone Metastases in the Thoracolumbar Spine. Lecture Notes in Computational Vision and Biomechanics, 2015, , 97-130.	0.5	3
140	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
141	Associations among pericolonic fat, visceral fat, and colorectal polyps on CT colonography. Obesity, 2015, 23, 408-414.	3.0	7
142	Detection of Sclerotic Spine Metastases viaÂRandom Aggregation of Deep ConvolutionalÂNeural Network Classifications. Lecture Notes in Computational Vision and Biomechanics, 2015, , 3-12.	0.5	34
143	Automated prostate cancer detection using T2â€weighted and highâ€bâ€value diffusionâ€weighted magnetic resonance imaging. Medical Physics, 2015, 42, 2368-2378.	3.0	81
144	Automatic multi-resolution shape modeling of multi-organ structures. Medical Image Analysis, 2015, 25, 11-21.	11.6	41

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145	Tumor growth prediction with reaction-diffusion and hyperelastic biomechanical model by physiological data fusion. Medical Image Analysis, 2015, 25, 72-85.	11.6	27
146	Automated segmentation of the thyroid gland on CT using multi-atlas label fusion and random forest. , 2015, , .		3
147	Automated segmentation of thyroid gland on CT images with multi-atlas label fusion and random classification forest. Proceedings of SPIE, 2015, , .	0.8	4
148	Abdominal multi-organ segmentation from CT images using conditional shapeâ€"location and unsupervised intensity priors. Medical Image Analysis, 2015, 26, 1-18.	11.6	121
149	Sequential Monte Carlo tracking of the marginal artery by multiple cue fusion and random forest regression. Medical Image Analysis, 2015, 19, 164-175.	11.6	11
150	Computer-aided detection of exophytic renal lesions on non-contrast CT images. Medical Image Analysis, 2015, 19, 15-29.	11.6	27
151	Optimizing area under the ROC curve using semi-supervised learning. Pattern Recognition, 2015, 48, 276-287.	8.1	28
152	DeepOrgan: Multi-level Deep Convolutional Networks for Automated Pancreas Segmentation. Lecture Notes in Computer Science, 2015, , 556-564.	1.3	347
153	Leveraging Mid-Level Semantic Boundary Cues for Automated Lymph Node Detection. Lecture Notes in Computer Science, 2015, , 53-61.	1.3	24
154	Automated extraction of anatomic landmarks on vertebrae based on anatomic knowledge and geometrical constraints. , 2014, , .		8
155	Detection and station mapping of mediastinal lymph nodes on thoracic computed tomography using spatial prior from multi-atlas label fusion. , 2014, , .		2
156	Abdominal lymphadenopathy detection using random forest. Proceedings of SPIE, 2014, , .	0.8	12
157	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
158	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
159	Reducing false positives of small bowel segmentation on CT scans by localizing colon regions. , 2014, , .		2
160	Mediastinal lymph node detection on thoracic CT scans using spatial prior from multi-atlas label fusion. Proceedings of SPIE, 2014, , .	0.8	7
161	Patient specific tumor growth prediction using multimodal images. Medical Image Analysis, 2014, 18, 555-566.	11.6	57
162	Feasibility of Using the Marginal Blood Vessels as Reference Landmarks for CT Colonography. American Journal of Roentgenology, 2014, 202, W50-W58.	2.2	3

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163	Tumor Response Assessment Using Volumetric Doubling Time. Academic Radiology, 2014, 21, 947-949.	2.5	1
164	Computer aided detection of epidural masses on computed tomography scans. Computerized Medical Imaging and Graphics, 2014, 38, 606-612.	5.8	9
165	Cortical shell unwrapping for vertebral body abnormality detection on computed tomography. Computerized Medical Imaging and Graphics, 2014, 38, 628-638.	5.8	12
166	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
167	Epidural Masses Detection on Computed Tomography Using Spatially-Constrained Gaussian Mixture Models. Lecture Notes in Computational Vision and Biomechanics, 2014, , 99-108.	0.5	4
168	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
169	087001.	3.0	102
170	A prostate cancer computer-aided diagnosis system using multimodal magnetic resonance imaging and targeted biopsy labels. , 2013, , .		22
171	Assessing Splenomegaly. Academic Radiology, 2013, 20, 675-684.	2.5	47
172	Mesenteric Vasculature-Guided Small Bowel Segmentation on 3-D CT. IEEE Transactions on Medical Imaging, 2013, 32, 2006-2021.	8.9	36
173	Tumor growth modeling based on dual phase CT and FDG-PET. , 2013, , .		3
174	Automated Detection of Sclerotic Metastases in the Thoracolumbar Spine at CT. Radiology, 2013, 268, 69-78.	7.3	55
175	Detection of vertebral degenerative disc disease based on cortical shell unwrapping. Proceedings of SPIE, 2013, , .	0.8	4
176	Automatic segmentation of kidneys from non-contrast CT images using efficient belief propagation. , 2013, , .		5
177	Augmenting tumor sensitive matching flow to improve detection and segmentation of ovarian cancer metastases within a PDE framework. , 2013, , .		3
178	Automatic anatomical labeling of abdominal arteries for small bowel evaluation on 3D CT scans. , 2013, , .		5
179	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
180	Multimodal Image Driven Patient Specific Tumor Growth Modeling. Lecture Notes in Computer Science, 2013, 16, 283-290.	1.3	6

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181	A Variational Framework for Joint Detection and Segmentation of Ovarian Cancer Metastases. Lecture Notes in Computer Science, 2013, 16, 83-90.	1.3	4
182	Manifold Diffusion for Exophytic Kidney Lesion Detection on Non-contrast CT Images. Lecture Notes in Computer Science, 2013, 16, 340-347.	1.3	2
183	Visual Phrase Learning and Its Application in Computed Tomographic Colonography. Lecture Notes in Computer Science, 2013, 16, 243-250.	1.3	0
184	Sequential Monte Carlo Tracking for Marginal Artery Segmentation on CT Angiography by Multiple Cue Fusion. Lecture Notes in Computer Science, 2013, 16, 518-525.	1.3	5
185	Detection of Vertebral Body Fractures Based on Cortical Shell Unwrapping. Lecture Notes in Computer Science, 2012, 15, 509-516.	1.3	53
186	Computer-aided mesenteric small vessel segmentation on high-resolution 3D contrast-enhanced CT angiography scans. , 2012, , .		2
187	Quantitative vertebral compression fracture evaluation using a height compass. Proceedings of SPIE, 2012, , .	0.8	11
188	Distributed Human Intelligence for Colonic Polyp Classification in Computer-aided Detection for CT Colonography. Radiology, 2012, 262, 824-833.	7.3	73
189	Association Between Visceral Adiposity and Colorectal Polyps on CT Colonography. American Journal of Roentgenology, 2012, 199, 48-57.	2.2	26
190	Detection of sclerotic bone metastases in the spine using watershed algorithm and graph cut. Proceedings of SPIE, 2012, , .	0.8	12
191	Computer-aided marginal artery detection on computed tomographic colonography. Proceedings of SPIE, 2012, , .	0.8	1
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