Fatemeh Homayounieh

List of Publications by Year
in descending order

35 papers	1,052 citations	566801 15 h-index	433756 31 g-index
35 all docs	35 docs citations	35 times ranked	1674 citing authors

#	Article	IF	Citations
1	Competitive performance of a modularized deep neural network compared to commercial algorithms for low-dose CT image reconstruction. Nature Machine Intelligence, 2019, 1, 269-276.	8.3	256
2	Deep learning in chest radiography: Detection of findings and presence of change. PLoS ONE, 2018, 13, e0204155.	1.1	136
3	CovidCTNet: an open-source deep learning approach to diagnose covid-19 using small cohort of CT images. Npj Digital Medicine, 2021, 4, 29.	5.7	74
4	Chest CT practice and protocols for COVID-19 from radiation dose management perspective. European Radiology, 2020, 30, 6554-6560.	2.3	62
5	Variations in CT Utilization, Protocols, and Radiation Doses in COVID-19 Pneumonia: Results from 28 Countries in the IAEA Study. Radiology, 2021, 298, E141-E151.	3.6	59
6	Integrative analysis for COVID-19 patient outcome prediction. Medical Image Analysis, 2021, 67, 101844.	7.0	57
7	CT Radiomics, Radiologists, and Clinical Information in Predicting Outcome of Patients with COVID-19 Pneumonia. Radiology: Cardiothoracic Imaging, 2020, 2, e200322.	0.9	45
8	Deep learning predicts cardiovascular disease risks from lung cancer screening low dose computed tomography. Nature Communications, 2021, 12, 2963.	5.8	43
9	Severity and Consolidation Quantification of COVID-19 From CT Images Using Deep Learning Based on Hybrid Weak Labels. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3529-3538.	3.9	31
10	Semiautomatic Segmentation and Radiomics for Dual-Energy CT: A Pilot Study to Differentiate Benign and Malignant Hepatic Lesions. American Journal of Roentgenology, 2020, 215, 398-405.	1.0	31
11	A multi-center study of COVID-19 patient prognosis using deep learning-based CT image analysis and electronic health records. European Journal of Radiology, 2021, 139, 109583.	1.2	26
12	Clinical and imaging features predict mortality in COVID-19 infection in Iran. PLoS ONE, 2020, 15, e0239519.	1.1	24
13	Computed Tomography Radiomics Can Predict Disease Severity and Outcome in Coronavirus Disease 2019 Pneumonia. Journal of Computer Assisted Tomography, 2020, 44, 640-646.	0.5	21
14	Association of AI quantified COVID-19 chest CT and patient outcome. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 435-445.	1.7	21
15	CT protocols and radiation doses for hematuria and urinary stones: Comparing practices in 20 countries. European Journal of Radiology, 2020, 126, 108923.	1.2	19
16	Quantitative lobar pulmonary perfusion assessment on dual-energy CT pulmonary angiography: applications in pulmonary embolism. European Radiology, 2020, 30, 2535-2542.	2.3	16
17	Artificial intelligence-based vessel suppression for detection of sub-solid nodules in lung cancer screening computed tomography. Quantitative Imaging in Medicine and Surgery, 2021, 11, 1134-1143.	1.1	16
18	Accuracy of radiomics for differentiating diffuse liver diseases on non-contrast CT. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1727-1736.	1.7	14

#	Article	IF	Citations
19	Prediction of burden and management of renal calculi from whole kidney radiomics: a multicenter study. Abdominal Radiology, 2021, 46, 2097-2106.	1.0	12
20	Radiation Dose for Multiregion CT Protocols: Challenges and Limitations. American Journal of Roentgenology, 2019, 213, 1100-1106.	1.0	11
21	Comparison of image quality and radiation doses between rapid kV-switching and dual-source DECT techniques in the chest. European Journal of Radiology, 2019, 119, 108639.	1.2	11
22	Spontaneous coronary artery dissection and associated myocardial bridging: Current evidence from cohort study and case reports. Medical Hypotheses, 2019, 128, 50-53.	0.8	11
23	Multicenter Assessment of CT Pneumonia Analysis Prototype for Predicting Disease Severity and Patient Outcome. Journal of Digital Imaging, 2021, 34, 320-329.	1.6	11
24	Characterization of Benign and Malignant Pancreatic Lesions with DECT Quantitative Metrics and Radiomics. Academic Radiology, 2022, 29, 705-713.	1.3	11
25	Prediction of Coronary Calcification and Stenosis: Role of Radiomics From Low-Dose CT. Academic Radiology, 2021, 28, 972-979.	1.3	9
26	Low contrast volume dual-energy CT of the chest: Quantitative and qualitative assessment. Clinical Imaging, 2021, 69, 305-310.	0.8	7
27	Use of radiomics to differentiate left atrial appendage thrombi and mixing artifacts on single-phase CT angiography. International Journal of Cardiovascular Imaging, 2021, 37, 2071-2078.	0.7	7
28	Multiplatform, Non-Breath-Hold Fast Scanning Protocols: Should We Stop Giving Breath-Hold Instructions for Routine Chest CT?. Canadian Association of Radiologists Journal, 2020, 72, 084653712092053.	1.1	3
29	CHEST CT USAGE IN COVID-19 PNEUMONIA: MULTICENTER STUDY ON RADIATION DOSES AND DIAGNOSTIC QUALITY IN BRAZIL. Radiation Protection Dosimetry, 2021, 197, 135-145.	0.4	3
30	Investigating centering, scan length, and arm position impact on radiation dose across 4 countries from 4 continents during pandemic: Mitigating key radioprotection issues. Physica Medica, 2021, 84, 125-131.	0.4	2
31	PRACTICAL CHALLENGES WITH IMAGING COVID-19 IN BRAZIL: MITIGATION IN AND BEYOND THE PANDEMIC. Radiation Protection Dosimetry, 2021, 195, 92-98.	0.4	2
32	Accuracy of radiomics for differentiating diffuse liver diseases on non-contrast CT. , 2020, 15, 1727.		1
33	Viewing Imaging Studies: How Patient Location and Imaging Site Affect Referring Physicians. Journal of Digital Imaging, 2020, 33, 334-340.	1.6	0
34	Cardiovascular Disease Risk Improves COVID-19 Patient Outcome Prediction. Lecture Notes in Computer Science, 2021, , 467-476.	1.0	0
35	Reply to "Quality Control of Radiomics Study to Differentiate Benign and Malignant Hepatic Lesions". American Journal of Roentgenology, 2021, 216, W13-W13.	1.0	0