Ashirbani Saha

List of Publications by Year
in descending order

26 papers	1,571 citations	471061 17 h-index	642321 23 g-index
26 all docs	26 docs citations	26 times ranked	2191 citing authors

#	Article	IF	Citations
1	Deep learning in radiology: An overview of the concepts and a survey of the state of the art with focus on MRI. Journal of Magnetic Resonance Imaging, 2019, 49, 939-954.	1.9	306
2	Association of genomic subtypes of lower-grade gliomas with shape features automatically extracted by a deep learning algorithm. Computers in Biology and Medicine, 2019, 109, 218-225.	3.9	164
3	A machine learning approach to radiogenomics of breast cancer: a study of 922 subjects and 529 DCE-MRI features. British Journal of Cancer, 2018, 119, 508-516.	2.9	135
4	Multivariate machine learning models for prediction of pathologic response to neoadjuvant therapy in breast cancer using MRI features: a study using an independent validation set. Breast Cancer Research and Treatment, 2019, 173, 455-463.	1.1	127
5	Deep learning for segmentation of brain tumors: Impact of crossâ€institutional training and testing. Medical Physics, 2018, 45, 1150-1158.	1.6	117
6	Hierarchical Convolutional Neural Networks for Segmentation of Breast Tumors in MRI With Application to Radiogenomics. IEEE Transactions on Medical Imaging, 2019, 38, 435-447.	5.4	113
7	Deep learning for identifying radiogenomic associations in breast cancer. Computers in Biology and Medicine, 2019, 109, 85-90.	3.9	106
8	Radiogenomics of lower-grade glioma: algorithmically-assessed tumor shape is associated with tumor genomic subtypes and patient outcomes in a multi-institutional study with The Cancer Genome Atlas data. Journal of Neuro-Oncology, 2017, 133, 27-35.	1.4	74
9	Effects of MRI scanner parameters on breast cancer radiomics. Expert Systems With Applications, 2017, 87, 384-391.	4.4	60
10	Breast cancer <scp>MRI</scp> radiomics: An overview of algorithmic features and impact of interâ€reader variability in annotating tumors. Medical Physics, 2018, 45, 3076-3085.	1.6	53
11	Deep learning analysis of breast MRIs for prediction of occult invasive disease in ductal carcinoma in situ. Computers in Biology and Medicine, 2019, 115, 103498.	3.9	45
12	A study of association of Oncotype DX recurrence score with DCE-MRI characteristics using multivariate machine learning models. Journal of Cancer Research and Clinical Oncology, 2018, 144, 799-807.	1.2	38
13	Relationship between Background Parenchymal Enhancement on High-risk Screening MRI and Future Breast Cancer Risk. Academic Radiology, 2019, 26, 69-75.	1.3	38
14	A Data Set and Deep Learning Algorithm for the Detection of Masses and Architectural Distortions in Digital Breast Tomosynthesis Images. JAMA Network Open, 2021, 4, e2119100.	2.8	37
15	Algorithms for prediction of the Oncotype DX recurrence score using clinicopathologic data: a review and comparison using an independent dataset. Breast Cancer Research and Treatment, 2017, 162, 1-10.	1.1	35
16	Machine learning applications in imaging analysis for patients with pituitary tumors: a review of the current literature and future directions. Pituitary, 2020, 23, 273-293.	1.6	22
17	Interobserver variability in identification of breast tumors in MRI and its implications for prognostic biomarkers and radiogenomics. Medical Physics, 2016, 43, 4558-4564.	1.6	20
18	Can algorithmically assessed MRI features predict which patients with a preoperative diagnosis of ductal carcinoma in situ are upstaged to invasive breast cancer?. Journal of Magnetic Resonance Imaging, 2017, 46, 1332-1340.	1.9	19

#	Article	IF	Citations
19	Machine learningâ€based prediction of future breast cancer using algorithmically measured background parenchymal enhancement on highâ€risk screening MRI. Journal of Magnetic Resonance Imaging, 2019, 50, 456-464.	1.9	18
20	Association of distant recurrenceâ€free survival with algorithmically extracted MRI characteristics in breast cancer. Journal of Magnetic Resonance Imaging, 2019, 49, e231-e240.	1.9	16
21	Deep Radiogenomics of Lower-Grade Gliomas: Convolutional Neural Networks Predict Tumor Genomic Subtypes Using MR Images. Radiology: Artificial Intelligence, 2020, 2, e180050.	3.0	10
22	Intra-tumor molecular heterogeneity in breast cancer: definitions of measures and association with distant recurrence-free survival. Breast Cancer Research and Treatment, 2018, 172, 123-132.	1.1	9
23	Performance of preoperative breast MRI based on breast cancer molecular subtype. Clinical Imaging, 2020, 67, 130-135.	0.8	4
24	Radiogenomic analysis of lower grade glioma: a pilot multi-institutional study shows an association between quantitative image features and tumor genomics. , 2017, , .		3
25	Breast cancer molecular subtype classification using deep features: preliminary results. , 2018, , .		2
26	Association of high proliferation marker Ki-67 expression with DCEMR imaging features of breast: a large scale evaluation. , 2018, , .		0