Bilwaj Gaonkar

List of Publications by Year
in descending order

35 papers	816 citations	623734 14 h-index	580821 25 g-index
35 all docs	35 docs citations	35 times ranked	1781 citing authors

#	Article	IF	Citations
1	Multi-Atlas Skull-Stripping. Academic Radiology, 2013, 20, 1566-1576.	2.5	196
2	Analytic estimation of statistical significance maps for support vector machine based multi-variate image analysis and classification. NeuroImage, 2013, 78, 270-283.	4.2	100
3	Interpreting support vector machine models for multivariate group wise analysis in neuroimaging. Medical Image Analysis, 2015, 24, 190-204.	11.6	57
4	Breast DCE-MRI Kinetic Heterogeneity Tumor Markers: Preliminary Associations With Neoadjuvant Chemotherapy Response. Translational Oncology, 2015, 8, 154-162.	3.7	48
5	Brain Lesions, Introduction. Lecture Notes in Computer Science, 2016, 9556, 1-5.	1.3	48
6	Automated Tumor Volumetry Using Computer-Aided Image Segmentation. Academic Radiology, 2015, 22, 653-661.	2.5	39
7	Addressing Confounding in Predictive Models with an Application to Neuroimaging. International Journal of Biostatistics, 2016, 12, 31-44.	0.7	39
8	Deformable registration for quantifying longitudinal tumor changes during neoadjuvant chemotherapy. Magnetic Resonance in Medicine, 2015, 73, 2343-2356.	3.0	30
9	Multivariate Neural Connectivity Patterns in Early Infancy Predict Later Autism Symptoms. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2021, 6, 59-69.	1.5	28
10	Diagnostic potential of structural neuroimaging for depression from a multi-ethnic community sample. BJPsych Open, 2016, 2, 247-254.	0.7	27
11	Control-group feature normalization for multivariate pattern analysis of structural MRI data using the support vector machine. NeuroImage, 2016, 132, 157-166.	4.2	23
12	Multi-Parameter Ensemble Learning for Automated Vertebral Body Segmentation in Heterogeneously Acquired Clinical MR Images. IEEE Journal of Translational Engineering in Health and Medicine, 2017, 5, 1-12.	3.7	23
13	Deriving Statistical Significance Maps for SVM Based Image Classification and Group Comparisons. Lecture Notes in Computer Science, 2012, 15, 723-730.	1.3	19
14	Quantitative Analysis of Neural Foramina in the Lumbar Spine: An Imaging Informatics and Machine Learning Study. Radiology: Artificial Intelligence, 2019, 1, 180037.	5.8	16
15	Isolated Transverse Process Fractures: A Systematic Analysis. World Neurosurgery, 2017, 100, 336-341.	1.3	15
16	Quantitative Analysis of Spinal Canal Areas in the Lumbar Spine: An Imaging Informatics and Machine Learning Study. American Journal of Neuroradiology, 2019, 40, 1586-1591.	2.4	15
17	Computerized Assessment of Superior Semicircular Canal Dehiscence Size using Advanced Morphological Imaging Operators. Journal of Neurological Surgery, Part B: Skull Base, 2017, 78, 197-200.	0.8	13
18	Predicting Spinal Surgery Candidacy From Imaging Data Using Machine Learning. Neurosurgery, 2021, 89, 116-121.	1.1	13

#	Article	IF	Citations
19	Eigenrank by committee: Von-Neumann entropy based data subset selection and failure prediction for deep learning based medical image segmentation. Medical Image Analysis, 2021, 67, 101834.	11.6	11
20	Novel Method of Measuring Canal Dehiscence and Evaluation of its Potential as a Predictor of Symptom Outcomes After Middle Fossa Craniotomy. Neurosurgery, 2018, 83, 459-464.	1.1	10
21	Pattern Based Morphometry. Lecture Notes in Computer Science, 2011, 14, 459-466.	1.3	9
22	A Composite Multivariate Polygenic and Neuroimaging Score for Prediction of Conversion to Alzheimer's Disease. , 2012, , 105-108.		6
23	Autonomous Trajectory Planning for External Ventricular Drain Placement. Operative Neurosurgery, 2018, 15, 433-439.	0.8	6
24	Deriving Statistical Significance Maps for Support Vector Regression Using Medical Imaging Data. , 2013, 2013, 13-16.		5
25	Automated segmentation of brain lesions by combining intensity and spatial information. , 2010, , .		4
26	Deep learning for medical image segmentation â€“ using the IBM TrueNorth neurosynaptic system. , 2018, , .		4
27	Comparison of Clinical Outcomes Stratified by Target Delineation for Patients Undergoing Stereotactic Body Radiotherapy for Spinal Metastases. World Neurosurgery, 2020, 136, e68-e74.	1.3	3
28	Relationship Between Superior Semicircular Canal Dehiscence Volume with Clinical Symptoms: Case Series. World Neurosurgery, 2021, 156, e345-e350.	1.3	3
29	Classifying medical images using morphological appearance manifolds. , 2013, 2013, 744-747.		2
30	Smartphone App-Enabled Flex sEMG Patch using FOWLP. , 2022, , .		2
31	Automated segmentation of cortical necrosis using awavelet based abnormality detection system. , 2011, 2011, 1391-1395.		1
32	Timing of adjuvant radiation therapy and survival outcomes after surgical resection of intracranial non-small cell lung cancer metastases. Clinical Neurology and Neurosurgery, 2019, 183, 105389.	1.4	1
33	Identifying Multivariate Imaging Patterns: Supervised, Semi-Supervised, and Unsupervised Learning Perspectives. Academic Press Library in Signal Processing, 2014, 4, 327-340.	0.8	0
34	Imaging Biomarker Development for Lower Back Pain Using Machine Learning: How Image Analysis Can Help Back Pain. Methods in Molecular Biology, 2022, 2393, 623-640.	0.9	0
35	A deep network ensemble for segmentation of cervical spinal cord and neural foramina. , 2022, , .		0