

Bilwaj Gaonkar

List of Publications by Year in descending order

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Version: 2024-02-01

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	Imaging Biomarker Development for Lower Back Pain Using Machine Learning: How Image Analysis Can Help Back Pain. <i>Methods in Molecular Biology</i> , 2022, 2393, 623-640.	0.9	0
2	A deep network ensemble for segmentation of cervical spinal cord and neural foramina. , 2022, , .		0
3	Smartphone App-Enabled Flex sEMG Patch using FOWLP. , 2022, , .		2
4	Multivariate Neural Connectivity Patterns in Early Infancy Predict Later Autism Symptoms. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021, 6, 59-69.	1.5	28
5	Eigenrank by committee: Von-Neumann entropy based data subset selection and failure prediction for deep learning based medical image segmentation. <i>Medical Image Analysis</i> , 2021, 67, 101834.	11.6	11
6	Predicting Spinal Surgery Candidacy From Imaging Data Using Machine Learning. <i>Neurosurgery</i> , 2021, 89, 116-121.	1.1	13
7	Relationship Between Superior Semicircular Canal Dehiscence Volume with Clinical Symptoms: Case Series. <i>World Neurosurgery</i> , 2021, 156, e345-e350.	1.3	3
8	Comparison of Clinical Outcomes Stratified by Target Delineation for Patients Undergoing Stereotactic Body Radiotherapy for Spinal Metastases. <i>World Neurosurgery</i> , 2020, 136, e68-e74.	1.3	3
9	Timing of adjuvant radiation therapy and survival outcomes after surgical resection of intracranial non-small cell lung cancer metastases. <i>Clinical Neurology and Neurosurgery</i> , 2019, 183, 105389.	1.4	1
10	Quantitative Analysis of Spinal Canal Areas in the Lumbar Spine: An Imaging Informatics and Machine Learning Study. <i>American Journal of Neuroradiology</i> , 2019, 40, 1586-1591.	2.4	15
11	Quantitative Analysis of Neural Foramina in the Lumbar Spine: An Imaging Informatics and Machine Learning Study. <i>Radiology: Artificial Intelligence</i> , 2019, 1, 180037.	5.8	16
12	Autonomous Trajectory Planning for External Ventricular Drain Placement. <i>Operative Neurosurgery</i> , 2018, 15, 433-439.	0.8	6
13	Novel Method of Measuring Canal Dehiscence and Evaluation of its Potential as a Predictor of Symptom Outcomes After Middle Fossa Craniotomy. <i>Neurosurgery</i> , 2018, 83, 459-464.	1.1	10
14	Deep learning for medical image segmentation “ using the IBM TrueNorth neurosynaptic system. , 2018, , .		4
15	Isolated Transverse Process Fractures: A Systematic Analysis. <i>World Neurosurgery</i> , 2017, 100, 336-341.	1.3	15
16	Computerized Assessment of Superior Semicircular Canal Dehiscence Size using Advanced Morphological Imaging Operators. <i>Journal of Neurological Surgery, Part B: Skull Base</i> , 2017, 78, 197-200.	0.8	13
17	Multi-Parameter Ensemble Learning for Automated Vertebral Body Segmentation in Heterogeneously Acquired Clinical MR Images. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2017, 5, 1-12.	3.7	23
18	Diagnostic potential of structural neuroimaging for depression from a multi-ethnic community sample. <i>BJPsych Open</i> , 2016, 2, 247-254.	0.7	27

#	ARTICLE	IF	CITATIONS
19	Control-group feature normalization for multivariate pattern analysis of structural MRI data using the support vector machine. <i>NeuroImage</i> , 2016, 132, 157-166.	4.2	23
20	Addressing Confounding in Predictive Models with an Application to Neuroimaging. <i>International Journal of Biostatistics</i> , 2016, 12, 31-44.	0.7	39
21	Brain Lesions, Introduction. <i>Lecture Notes in Computer Science</i> , 2016, 9556, 1-5.	1.3	48
22	Deformable registration for quantifying longitudinal tumor changes during neoadjuvant chemotherapy. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2343-2356.	3.0	30
23	Interpreting support vector machine models for multivariate group wise analysis in neuroimaging. <i>Medical Image Analysis</i> , 2015, 24, 190-204.	11.6	57
24	Breast DCE-MRI Kinetic Heterogeneity Tumor Markers: Preliminary Associations With Neoadjuvant Chemotherapy Response. <i>Translational Oncology</i> , 2015, 8, 154-162.	3.7	48
25	Automated Tumor Volumetry Using Computer-Aided Image Segmentation. <i>Academic Radiology</i> , 2015, 22, 653-661.	2.5	39
26	Identifying Multivariate Imaging Patterns: Supervised, Semi-Supervised, and Unsupervised Learning Perspectives. <i>Academic Press Library in Signal Processing</i> , 2014, 4, 327-340.	0.8	0
27	Multi-Atlas Skull-Stripping. <i>Academic Radiology</i> , 2013, 20, 1566-1576.	2.5	196
28	Analytic estimation of statistical significance maps for support vector machine based multi-variate image analysis and classification. <i>NeuroImage</i> , 2013, 78, 270-283.	4.2	100
29	Deriving Statistical Significance Maps for Support Vector Regression Using Medical Imaging Data. , 2013, 2013, 13-16.		5
30	Classifying medical images using morphological appearance manifolds. , 2013, 2013, 744-747.		2
31	Deriving Statistical Significance Maps for SVM Based Image Classification and Group Comparisons. <i>Lecture Notes in Computer Science</i> , 2012, 15, 723-730.	1.3	19
32	A Composite Multivariate Polygenic and Neuroimaging Score for Prediction of Conversion to Alzheimer's Disease. , 2012, , 105-108.		6
33	Automated segmentation of cortical necrosis using awavelet based abnormality detection system. , 2011, 2011, 1391-1395.		1
34	Pattern Based Morphometry. <i>Lecture Notes in Computer Science</i> , 2011, 14, 459-466.	1.3	9
35	Automated segmentation of brain lesions by combining intensity and spatial information. , 2010, ,		4