

# Lawrence O Hall

## List of Publications by Year in descending order

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Version: 2024-02-01

94  
papers

4,654  
citations

257450

24  
h-index

214800

47  
g-index

94  
all docs

94  
docs citations

94  
times ranked

6304  
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiomics: the process and the challenges. Magnetic Resonance Imaging, 2012, 30, 1234-1248.	1.8	1,675
2	Radiomics in Brain Tumor: Image Assessment, Quantitative Feature Descriptors, and Machine-Learning Approaches. American Journal of Neuroradiology, 2018, 39, 208-216.	2.4	281
3	Reproducibility and Prognosis of Quantitative Features Extracted from CT Images. Translational Oncology, 2014, 7, 72-87.	3.7	258
4	Predicting Malignant Nodules from Screening CT Scans. Journal of Thoracic Oncology, 2016, 11, 2120-2128.	1.1	226
5	Testâ€Retest Reproducibility Analysis of Lung CT Image Features. Journal of Digital Imaging, 2014, 27, 805-823.	2.9	216
6	Automatically countering imbalance and its empirical relationship to cost. Data Mining and Knowledge Discovery, 2008, 17, 225-252.	3.7	202
7	Automated delineation of lung tumors from CT images using a single click ensemble segmentation approach. Pattern Recognition, 2013, 46, 692-702.	8.1	138
8	Deep Feature Transfer Learning in Combination with Traditional Features Predicts Survival among Patients with Lung Adenocarcinoma. Tomography, 2016, 2, 388-395.	1.8	128
9	Predicting Outcomes of Nonsmall Cell Lung Cancer Using CT Image Features. IEEE Access, 2014, 2, 1418-1426.	4.2	104
10	Radiologically Defined Ecological Dynamics and Clinical Outcomes in Glioblastoma Multiforme: Preliminary Results. Translational Oncology, 2014, 7, 5-13.	3.7	82
11	Single Pass Fuzzy C Means. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	75
12	Delta Radiomics Improves Pulmonary Nodule Malignancy Prediction in Lung Cancer Screening. IEEE Access, 2018, 6, 77796-77806.	4.2	72
13	Accelerating Fuzzy-C Means Using an Estimated Subsample Size. IEEE Transactions on Fuzzy Systems, 2014, 22, 1229-1244.	9.8	71
14	Identifying spatial imaging biomarkers of glioblastoma multiforme for survival group prediction. Journal of Magnetic Resonance Imaging, 2017, 46, 115-123.	3.4	69
15	Predicting malignant nodules by fusing deep features with classical radiomics features. Journal of Medical Imaging, 2018, 5, 1.	1.5	68
16	Horizon Detection Using Machine Learning Techniques. , 2006, , .		57
17	Fuzzy Ants and Clustering. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2007, 37, 758-769.	2.9	56
18	Stability and reproducibility of computed tomography radiomic features extracted from peritumoral regions of lung cancer lesions. Medical Physics, 2019, 46, 5075-5085.	3.0	49

#	ARTICLE	IF	CITATIONS
19	Combining deep neural network and traditional image features to improve survival prediction accuracy for lung cancer patients from diagnostic CT. , 2016, , .		45
20	Heterogeneity in intratumoral regions with rapid gadolinium washout correlates with estrogen receptor status and nodal metastasis. Journal of Magnetic Resonance Imaging, 2015, 42, 1421-1430.	3.4	44
21	Convergence of the Single-Pass and Online Fuzzy C-Means Algorithms. IEEE Transactions on Fuzzy Systems, 2011, 19, 792-794.	9.8	39
22	Challenges for the Repeatability of Deep Learning Models. IEEE Access, 2020, 8, 211860-211868.	4.2	37
23	A framework for nucleus and overlapping cytoplasm segmentation in cervical cytology extended depth of field and volume images. Computerized Medical Imaging and Graphics, 2017, 59, 38-49.	5.8	36
24	Predicting Nodule Malignancy using a CNN Ensemble Approach. , 2018, 2018, .		32
25	Revealing Tumor Habitats from Texture Heterogeneity Analysis for Classification of Lung Cancer Malignancy and Aggressiveness. Scientific Reports, 2019, 9, 4500.	3.3	31
26	Discovery of a Generalization Gap of Convolutional Neural Networks on COVID-19 X-Rays Classification. IEEE Access, 2021, 9, 72970-72979.	4.2	28
27	Delta radiomic features improve prediction for lung cancer incidence: A nested caseâ€“control analysis of the National Lung Screening Trial. Cancer Medicine, 2018, 7, 6340-6356.	2.8	27
28	ITERATIVE FEATURE PERTURBATION AS A GENE SELECTOR FOR MICROARRAY DATA. International Journal of Pattern Recognition and Artificial Intelligence, 2012, 26, 1260003.	1.2	26
29	Developing a classifier model for lung tumors in CT-scan images. , 2011, , .		25
30	Automated Cell Counts on Tissue Sections by Deep Learning and Unbiased Stereology. Journal of Chemical Neuroanatomy, 2019, 96, 94-101.	2.1	25
31	Effect of Texture Features in Computer Aided Diagnosis of Pulmonary Nodules in Low-Dose Computed Tomography. , 2013, , .		24
32	Unbiased estimation of cell number using the automatic optical fractionator. Journal of Chemical Neuroanatomy, 2017, 80, A1-A8.	2.1	24
33	Explaining Deep Features Using Radiologist-Defined Semantic Features and Traditional Quantitative Features. Tomography, 2019, 5, 192-200.	1.8	24
34	A fuzzy c means variant for clustering evolving data streams. , 2007, , .		23
35	A Cluster Ensemble Framework for Large Data sets. , 2006, , .		22
36	Convolutional Neural Network ensembles for accurate lung nodule malignancy prediction 2 years in the future. Computers in Biology and Medicine, 2020, 122, 103882.	7.0	22

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37	Ensembles of Fuzzy Classifiers. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	20
38	<sup>18</sup> F-FDG PET/CT Habitat Radiomics Predicts Outcome of Patients with Cervical Cancer Treated with Chemoradiotherapy. Radiology: Artificial Intelligence, 2020, 2, e190218.	5.8	19
39	A Radiogenomics Ensemble to Predict EGFR and KRAS Mutations in NSCLC. Tomography, 2021, 7, 154-168.	1.8	15
40	Synthetic minority image over-sampling technique: How to improve AUC for glioblastoma patient survival prediction. , 2017, , .		14
41	Creating Streaming Iterative Soft Clustering Algorithms. , 2007, , .		13
42	Automatic ground truth for deep learning stereology of immunostained neurons and microglia in mouse neocortex. Journal of Chemical Neuroanatomy, 2019, 98, 1-7.	2.1	13
43	KNOWLEDGE-GUIDED CLASSIFICATION OF COASTAL ZONE COLOR IMAGES OFF THE WEST FLORIDA SHELF. International Journal of Pattern Recognition and Artificial Intelligence, 2000, 14, 987-1007.	1.2	12
44	Objective function-based clustering. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2012, 2, 326-339.	6.8	10
45	Finding label noise examples in large scale datasets. , 2017, , .		10
46	Scalable fuzzy neighborhood DBSCAN. , 2010, , .		9
47	A Robust Approach for Automated Lung Segmentation in Thoracic CT. , 2015, , .		8
48	METHODS FOR COMBINATION OF EVIDENCE IN FUNCTION-BASED 3-D OBJECT RECOGNITION. International Journal of Pattern Recognition and Artificial Intelligence, 1993, 07, 573-594.	1.2	7
49	Spectral sparsification in spectral clustering. , 2016, , .		7
50	Ensembles of Convolutional Neural Networks for Survival Time Estimation of High-Grade Glioma Patients from Multimodal MRI. Diagnostics, 2022, 12, 345.	2.6	7
51	Semi-supervised learning on large complex simulations. , 2008, , .		6
52	Feature selection for microarray data by AUC analysis. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	6
53	Automatic red tide detection from MODIS satellite images. , 2009, , .		6
54	Comparison of scalable fuzzy clustering methods. , 2012, , .		6

#	ARTICLE	IF	CITATIONS
55	Iterative Deep Learning Based Unbiased Stereology with Human-in-the-Loop. , 2018, , .		6
56	Deep Feature Stability Analysis Using CT Images of a Physical Phantom across Scanner Manufacturers, Cartridges, Pixel Sizes, and Slice Thickness. Tomography, 2020, 6, 250-260.	1.8	6
57	Evaluating scalable fuzzy clustering. , 2010, , .		5
58	Increased classification accuracy and speedup through pair-wise feature selection for support vector machines. , 2011, , .		5
59	Exploring Brain Tumor Heterogeneity for Survival Time Prediction. , 2014, , .		5
60	Improving malignancy prediction through feature selection informed by nodule size ranges in NLST. , 2016, 2016, 001939-1944.		5
61	Predicting Longitudinal User Activity at Fine Time Granularity in Online Collaborative Platforms. , 2019, , .		5
62	Lung Nodule Sizes Are Encoded When Scaling CT Image for CNN's. Tomography, 2020, 6, 209-215.	1.8	5
63	VAM: An End-to-End Simulator for Time Series Regression and Temporal Link Prediction in Social Media Networks. IEEE Transactions on Computational Social Systems, 2023, 10, 1479-1490.	4.4	5
64	Encoding of Production Rules in a Connectionist Network. Journal of Intelligent and Fuzzy Systems, 1996, 4, 1-18.	1.4	4
65	A Texture Feature Ranking Model for Predicting Survival Time of Brain Tumor Patients. , 2013, , .		4
66	Experiments with large ensembles for segmentation and classification of cervical cancer biopsy images. , 2014, , .		4
67	Large Data Clustering Using Quadratic Programming: A Comprehensive Quantitative Analysis. , 2015, , .		4
68	Parallel search using transformation-ordering Iterative-Deepening-A*. International Journal of Intelligent Systems, 1993, 8, 855-873.	5.7	3
69	Multivariate Feature Selection using Random Subspace Classifiers for Gene Expression Data. , 2007, , .		3
70	Detection of Anomalous Particles from the Deepwater Horizon Oil Spill Using the SIPPER3 Underwater Imaging Platform. , 2011, , .		3
71	Dominant Sets as a Framework for Cluster Ensembles: An Evolutionary Game Theory Approach. , 2014, , .		3
72	A Primer on Cluster Analysis by James C. Bezdek [By the Book]. IEEE Systems, Man, and Cybernetics Magazine, 2018, 4, 48-50.	1.4	3

#	ARTICLE	IF	CITATIONS
73	Automatic Cell Counting using Active Deep Learning and Unbiased Stereology. , 2019, , .		3
74	Automatic stereology of mean nuclear size of neurons using an active contour framework. Journal of Chemical Neuroanatomy, 2019, 96, 110-115.	2.1	3
75	An adaptive digital stain separation method for deep learning-based automatic cell profile counts. Journal of Neuroscience Methods, 2021, 354, 109102.	2.5	3
76	Hybrid models for lung nodule malignancy prediction utilizing convolutional neural network ensembles and clinical data. Journal of Medical Imaging, 2020, 7, 1.	1.5	3
77	Clinical deployment of a medical expert system to increase accruals for clinical trials: Challenges. , 2007, , .		2
78	Filtering for improved gene selection on microarray data. , 2010, , .		2
79	Dempster-Shafer theory of evidence in Single Pass Fuzzy C Means. , 2013, , .		2
80	Correlation Based Random Subspace Ensembles for Predicting Number of Axillary Lymph Node Metastases in Breast DCE-MRI Tumors. , 2015, , .		2
81	Representation of Deep Features using Radiologist defined Semantic Features. , 2018, 2018, .		2
82	Improving the process [of publishing in this Transactions]. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 1314-1314.	5.0	1
83	On convergence properties of the singlepass and online fuzzy c-means algorithm. , 2010, , .		1
84	A novel algorithm for automated counting of stained cells on thick tissue sections. , 2012, , .		1
85	A quantitative histogram-based approach to predict treatment outcome for Soft Tissue Sarcomas using pre- and post-treatment MRIs. , 2016, , .		1
86	Towards deep radiomics: nodule malignancy prediction using CNNs on feature images. , 2019, , .		1
87	Experimental results from parallel backward-chained expert systems. International Journal of Intelligent Systems, 1992, 7, 505-512.	5.7	0
88	Scalable fuzzy clustering algorithms. , 2008, , .		0
89	Finding the right genes for disease and prognosis prediction. , 2010, , .		0
90	Detecting and ordering salient regions. Data Mining and Knowledge Discovery, 2011, 22, 259-290.	3.7	0

#	ARTICLE	IF	CITATIONS
91	Procedure for stability analysis of gene selection from cross-site gene expression data. , 2011, , .		0
92	Fuzzy Set Similarity for Feature Selection in Classification. , 2020, , .		0
93	OBTAINING FUZZY CLASSIFICATION RULES IN SEGMENTATION. Advances in Fuzzy Systems, 1995, , 84-92.	8.7	0
94	A disector-based framework for the automatic optical fractionator. Journal of Chemical Neuroanatomy, 2022, 124, 102134.	2.1	0