William Speier

List of Publications by Year
in descending order

66	1,632	257450	330143
papers	citations	24 h-index	37 g-index

71	71	71	2021
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Is Proton Beam Therapy Cost Effective in the Treatment of Adenocarcinoma of the Prostate?. Journal of Clinical Oncology, 2007, 25, 3603-3608.	1.6	142
2	Federated learning improves site performance in multicenter deep learning without data sharing. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 1259-1264.	4.4	93
3	Application of Bayesian Decomposition for analysing microarray data. Bioinformatics, 2002, 18, 566-575.	4.1	84
4	A Machine Learning Approach for Classifying Ischemic Stroke Onset Time From Imaging. IEEE Transactions on Medical Imaging, 2019, 38, 1666-1676.	8.9	71
5	Phosphorylation of Akt (Ser473) Predicts Poor Clinical Outcome in Oropharyngeal Squamous Cell Cancer. Cancer Epidemiology Biomarkers and Prevention, 2007, 16, 553-558.	2.5	70
6	A method for optimizing EEG electrode number and configuration for signal acquisition in P300 speller systems. Clinical Neurophysiology, 2015, 126, 1171-1177.	1.5	61
7	Cost implications of new treatments for advanced colorectal cancer. Cancer, 2009, 115, 2081-2091.	4.1	54
8	A multi-resolution model for histopathology image classification and localization with multiple instance learning. Computers in Biology and Medicine, 2021, 131, 104253.	7.0	54
9	The effects of stimulus timing features on P300 speller performance. Clinical Neurophysiology, 2013, 124, 306-314.	1.5	49
10	Bidirectional Representation Learning From Transformers Using Multimodal Electronic Health Record Data to Predict Depression. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3121-3129.	6.3	47
11	An EM-based semi-supervised deep learning approach for semantic segmentation of histopathological images from radical prostatectomies. Computerized Medical Imaging and Graphics, 2018, 69, 125-133.	5.8	46
12	A Machine Learning Approach to Classifying Self-Reported Health Status in a Cohort of Patients With Heart Disease Using Activity Tracker Data. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 878-884.	6.3	45
13	Natural language processing with dynamic classification improves P300 speller accuracy and bit rate. Journal of Neural Engineering, 2012, 9, 016004.	3.5	43
14	The potential value of probabilistic tractography-based for MR-guided focused ultrasound thalamotomy for essential tremor. NeuroImage: Clinical, 2018, 17, 1019-1027.	2.7	43
15	Integrating language models into classifiers for BCI communication: a review. Journal of Neural Engineering, 2016, 13, 031002.	3.5	38
16	Evaluating utility and compliance in a patient-based eHealth study using continuous-time heart rate and activity trackers. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 1386-1391.	4.4	37
17	Prevalence of Coronary Artery Disease Evaluated by Coronary CT Angiography in Women with Mammographically Detected Breast Arterial Calcifications. PLoS ONE, 2015, 10, e0122289.	2.5	33
18	Integrating Language Information With a Hidden Markov Model to Improve Communication Rate in the P300 Speller. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 678-684.	4.9	32

#	Article	IF	Citations
19	Using phrases and document metadata to improve topic modeling of clinical reports. Journal of Biomedical Informatics, 2016, 61, 260-266.	4.3	30
20	Evaluating True BCI Communication Rate through Mutual Information and Language Models. PLoS ONE, 2013, 8, e78432.	2.5	30
21	HCET: Hierarchical Clinical Embedding With Topic Modeling on Electronic Health Records for Predicting Future Depression. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1265-1272.	6.3	28
22	Evaluating topic model interpretability from a primary care physician perspective. Computer Methods and Programs in Biomedicine, 2016, 124, 67-75.	4.7	27
23	Using Sequential Decision Making to Improve Lung Cancer Screening Performance. IEEE Access, 2019, 7, 119403-119419.	4.2	27
24	A topic model of clinical reports. , 2012, , .		26
25	Online BCI typing using language model classifiers by ALS patients in their homes. Brain-Computer Interfaces, 2017, 4, 114-121.	1.8	26
26	A comparison of stimulus types in online classification of the P300 speller using language models. PLoS ONE, 2017, 12, e0175382.	2.5	26
27	Improved P300 speller performance using electrocorticography, spectral features, and natural language processing. Clinical Neurophysiology, 2013, 124, 1321-1328.	1.5	24
28	Assessment of Heart Failure Patientsâ€™ Interest in Mobile Health Apps for Self-Care: Survey Study. JMIR Cardio, 2019, 3, e14332.	1.7	23
29	Integrating remote monitoring into heart failure patientsâ€™ care regimen: A pilot study. PLoS ONE, 2020, 15, e0242210.	2.5	21
30	Optimizing Spatial Biopsy Sampling for the Detection of Prostate Cancer. Journal of Urology, 2021, 206, 595-603.	0.4	19
31	Predicting ischemic stroke tissue fate using a deep convolutional neural network on source magnetic resonance perfusion images. Journal of Medical Imaging, 2019, 6, 1.	1.5	19
32	High resolution histopathology image generation and segmentation through adversarial training. Medical Image Analysis, 2022, 75, 102251.	11.6	19
33	Robust Skull Stripping of Clinical Glioblastoma Multiforme Data. Lecture Notes in Computer Science, 2011, 14, 659-666.	1.3	18
34	Predicting discharge mortality after acute ischemic stroke using balanced data. AMIA ... Annual Symposium proceedings, 2014, 2014, 1787-96.	0.2	18
35	Attention-Guided Discriminative Region Localization and Label Distribution Learning for Bone Age Assessment. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1208-1218.	6.3	15
36	Patientsâ€™ Perceptions of Radiation Exposure Associated With Mammography. American Journal of Roentgenology, 2015, 205, 215-221.	2.2	14

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37	Intra-domain task-adaptive transfer learning to determine acute ischemic stroke onset time. Computerized Medical Imaging and Graphics, 2021, 90, 101926.	5.8	14
38	Refining epileptogenic high-frequency oscillations using deep learning: a reverse engineering approach. Brain Communications, 2022, 4, fcab267.	3.3	14
39	Classifying Acute Ischemic Stroke Onset Time using Deep Imaging Features. AMIA ... Annual Symposium proceedings, 2017, 2017, 892-901.	0.2	14
40	Incorporating advanced language models into the P300 speller using particle filtering. Journal of Neural Engineering, 2015, 12, 046018.	3.5	13
41	Improving P300 spelling rate using language models and predictive spelling. Brain-Computer Interfaces, 2018, 5, 13-22.	1.8	13
42	A protocol integrating remote patient monitoring patient reported outcomes and cardiovascular biomarkers. Npj Digital Medicine, 2019, 2, 84.	10.9	12
43	Machine Learning Prediction of Treatment Outcome in Late-Life Depression. Frontiers in Psychiatry, 2021, 12, 738494.	2.6	11
44	PathAL: An Active Learning Framework for Histopathology Image Analysis. IEEE Transactions on Medical Imaging, 2022, 41, 1176-1187.	8.9	11
45	Automated extraction of reported statistical analyses: towards a logical representation of clinical trial literature. AMIA ... Annual Symposium proceedings, 2012, 2012, 350-9.	0.2	10
46	Biometric and Psychometric Remote Monitoring and Cardiovascular Risk Biomarkers in Ischemic Heart Disease. Journal of the American Heart Association, 2020, 9, e016023.	3.7	8
47	Successful Patient Recruitment in CT Imaging Clinical Trials. Academic Radiology, 2014, 21, 52-57.	2.5	7
48	LSTM Network for Prediction of Hemorrhagic Transformation in Acute Stroke. Lecture Notes in Computer Science, 2019, , 177-185.	1.3	6
49	Updating annotations with the distributed annotation system and the automated sequence annotation pipeline. Bioinformatics, 2012, 28, 2858-2859.	4.1	5
50	Effect of altering breathing frequency on maximum voluntary ventilation in healthy adults. BMC Pulmonary Medicine, 2018, 18, 89.	2.0	5
51	Hierarchical Graph Pathomic Network for Progression Free Survival Prediction. Lecture Notes in Computer Science, 2021, , 227-237.	1.3	5
52	Unsupervîsed training of brain-computer interface systems using exnectation maximization. , 2013, , .		4
53	ResearchMaps.org for integrating and planning research. PLoS ONE, 2018, 13, e0195271.	2.5	4
54	Visualization of Fluoroscopic Imaging in Orthopedic Surgery: Head-Mounted Display vs Conventional Monitor. Surgical Innovation, 2022, 29, 353-359.	0.9	4

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55	Harnessing clinical annotations to improve deep learning performance in prostate segmentation. PLoS ONE, 2021, 16, e0253829.	2.5	4
56	Extending brain-computer interface access with a multilingual language model in the P300 speller. Brain-Computer Interfaces, 2022, 9, 36-48.	1.8	3
57	Readability Assessment of Patient-Centered Outcomes Research Institute Public Abstracts in Relation to Accessibility. Epidemiology, 2017, 28, e37-e38.	2.7	2
58	Identifying Input Features for Development of Real-Time Translation of Neural Signals to Text. , 0, , .		2
59	Motivating the additional use of external validity: examining transportability in a model of glioblastoma multiforme. AMIA ... Annual Symposium proceedings, 2014, 2014, 1930-9.	0.2	2
60	A Semi-Supervised Learning Framework to Leverage Proxy Information for Stroke MRI Analysis. , 2021, 2021, 2258-2261.		2
61	Semi-automated PIRADS scoring via mpMRI analysis. Journal of Medical Imaging, 2020, 7, 064501.	1.5	1
62	Maintaining High Accuracy General P300 Speller Using the Language Modeling and Dynamic Stopping. , 2020, , .		1
63	Sex-based differences in remote monitoring of biometric, psychometric and biomarker indices in stable ischemic heart disease. Biology of Sex Differences, 2022, 13, 15.	4.1	1
64	OnionTree XML: A Format to Exchange Gene-Related Probabilities. Journal of Biomolecular Structure and Dynamics, 2011, 29, 417-423.	3.5	0
65	Generalizing neural signal-to-text brain-computer interfaces. Biomedical Physics and Engineering Express, 2021, 7, 035023.	1.2	0
66	Optimizing P300 speller performance using language models for character and word prediction. , 2020, , .		0