

Joachim M Buhmann

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10998257/publications.pdf>

Version: 2024-02-01

61
papers

4,752
citations

331259

21
h-index

315357

38
g-index

61
all docs

61
docs citations

61
times ranked

7861
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly multiplexed imaging of tumor tissues with subcellular resolution by mass cytometry. Nature Methods, 2014, 11, 417-422.	9.0	1,430
2	Stability-Based Validation of Clustering Solutions. Neural Computation, 2004, 16, 1299-1323.	1.3	389
3	Protein Identification False Discovery Rates for Very Large Proteomics Data Sets Generated by Tandem Mass Spectrometry. Molecular and Cellular Proteomics, 2009, 8, 2405-2417.	2.5	282
4	Glaucoma detection using entropy sampling and ensemble learning for automatic optic cup and disc segmentation. Computerized Medical Imaging and Graphics, 2017, 55, 28-41.	3.5	278
5	Empirical Evaluation of Dissimilarity Measures for Color and Texture. Computer Vision and Image Understanding, 2001, 84, 25-43.	3.0	259
6	Crowdsourcing the creation of image segmentation algorithms for connectomics. Frontiers in Neuroanatomy, 2015, 9, 142.	0.9	248
7	Dissecting psychiatric spectrum disorders by generative embedding. NeuroImage: Clinical, 2014, 4, 98-111.	1.4	150
8	Wheel Defect Detection With Machine Learning. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 1176-1187.	4.7	145
9	TI-POOLING: Transformation-Invariant Pooling for Feature Learning in Convolutional Neural Networks. , 2016, , .		143
10	Regression DCM for fMRI. NeuroImage, 2017, 155, 406-421.	2.1	124
11	Weakly supervised structured output learning for semantic segmentation. , 2012, , .		96
12	A generative model of whole-brain effective connectivity. NeuroImage, 2018, 179, 505-529.	2.1	83
13	Speech Enhancement Using Generative Dictionary Learning. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 1698-1712.	3.8	82
14	Nonparametric Bayesian Image Segmentation. International Journal of Computer Vision, 2008, 77, 25-45.	10.9	81
15	Prediction of colorectal cancer diagnosis based on circulating plasma proteins. EMBO Molecular Medicine, 2015, 7, 1166-1178.	3.3	80
16	Histogram clustering for unsupervised segmentation and image retrieval. Pattern Recognition Letters, 1999, 20, 899-909.	2.6	79
17	Neuron geometry extraction by perceptual grouping in ssTEM images. , 2010, , .		58
18	Automatic single cell segmentation on highly multiplexed tissue images. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 936-942.	1.1	53

#	ARTICLE	IF	CITATIONS
19	SPINDLE: End-to-end learning from EEG/EMG to extrapolate animal sleep scoring across experimental settings, labs and species. PLoS Computational Biology, 2019, 15, e1006968.	1.5	51
20	On the information and representation of non-Euclidean pairwise data. Pattern Recognition, 2006, 39, 1815-1826.	5.1	49
21	Inferring causal metabolic signals that regulate the dynamic <scp>TORC</scp>1â€dependent transcriptome. Molecular Systems Biology, 2015, 11, 802.	3.2	49
22	Multi-assignment clustering for Boolean data. , 2009, , .		44
23	Is There an Association Between Pain and Magnetic Resonance Imaging Parameters in Patients With Lumbar Spinal Stenosis?. Spine, 2016, 41, E1053-E1062.	1.0	44
24	Speech enhancement with sparse coding in learned dictionaries. , 2010, , .		41
25	The Binormal Assumption on Precision-Recall Curves. , 2010, , .		40
26	Learning Dictionaries With Bounded Self-Coherence. IEEE Signal Processing Letters, 2012, 19, 861-864.	2.1	39
27	Seeing the Objects Behind the Dots: Recognition in Videos fromÂaÂMoving Camera. International Journal of Computer Vision, 2009, 83, 57-71.	10.9	33
28	Information theoretic model validation for clustering. , 2010, , .		26
29	Active learning based segmentation of Crohns disease from abdominal MRI. Computer Methods and Programs in Biomedicine, 2016, 128, 75-85.	2.6	21
30	Generic Comparison of Protein Inference Engines. Molecular and Cellular Proteomics, 2012, 11, O110.007088.	2.5	20
31	Semi-Supervised and Active Learning for Automatic Segmentation of Crohnâ€™s Disease. Lecture Notes in Computer Science, 2013, 16, 214-221.	1.0	18
32	Assessment of Artificial Intelligence in Echocardiography Diagnostics in Differentiating Takotsubo Syndrome From Myocardial Infarction. JAMA Cardiology, 2022, 7, 494.	3.0	18
33	Automatic cardiac RV segmentation using semantic information with graph cuts. , 2013, , .		17
34	Robust Image Segmentation Using Resampling and Shape Constraints. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1147-1164.	9.7	15
35	Generative Aging Of Brain MRI For Early Prediction Of MCI-AD Conversion. , 2019, , .		13
36	Inversion of hierarchical Bayesian models using Gaussian processes. NeuroImage, 2015, 118, 133-145.	2.1	12

#	ARTICLE	IF	CITATIONS
37	Stable Bayesian Parameter Estimation for Biological Dynamical Systems. , 2009, , .		11
38	Smooth Image Segmentation by Nonparametric Bayesian Inference. Lecture Notes in Computer Science, 2006, , 444-457.	1.0	11
39	Visual saliency-based active learning for prostate magnetic resonance imaging segmentation. Journal of Medical Imaging, 2016, 3, 014003.	0.8	10
40	Improving 1-year mortality prediction in ACS patients using machine learning. European Heart Journal: Acute Cardiovascular Care, 2021, 10, 855-865.	0.4	9
41	Automatic Detection of Atrial Fibrillation from Single-Lead ECG Using Deep Learning of the Cardiac Cycle. BME Frontiers, 2022, 2022, .	2.2	9
42	Selecting the rank of truncated SVD by maximum approximation capacity. , 2011, , .		8
43	Proteome Coverage Prediction for Integrated Proteomics Datasets. Journal of Computational Biology, 2011, 18, 283-293.	0.8	8
44	Crohn's disease tissue segmentation from abdominal MRI using semantic information and graph cuts. , 2013, , .		8
45	A field of experts model for optic cup and disc segmentation from retinal fundus images. , 2015, , .		8
46	Entrack: Probabilistic Spherical Regression with Entropy Regularization for Fiber Tractography. International Journal of Computer Vision, 2021, 129, 656-680.	10.9	8
47	The information content in sorting algorithms. , 2012, , .		7
48	Instance Segmentation for the Quantification of Microplastic Fiber Images. , 2020, , .		7
49	How informative are Minimum Spanning Tree algorithms?. , 2014, , .		6
50	Validity of GRE General Test scores and TOEFL scores for graduate admission to a technical university in Western Europe. European Journal of Engineering Education, 2018, 43, 144-165.	1.5	6
51	The Minimum Transfer Cost Principle for Model-Order Selection. Lecture Notes in Computer Science, 2011, , 423-438.	1.0	5
52	Weakly supervised semantic segmentation of Crohn's disease tissues from abdominal MRI. , 2013, , .		5
53	Inter-active learning of randomized tree ensembles for object detection. , 2009, , .		4
54	Greedy MaxCut algorithms and their information content. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
55	Self-supervised representation learning for surgical activity recognition. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 2037-2044.	1.7	3
56	Sparse feature selection by information theory. , 2014, , .		2
57	Proteome Coverage Prediction for Integrated Proteomics Datasets. Lecture Notes in Computer Science, 2010, , 96-109.	1.0	2
58	Bayesian Order-Adaptive Clustering for Video Segmentation. Lecture Notes in Computer Science, 2007, , 334-349.	1.0	1
59	Regularized online learning of pseudometrics. , 2010, , .		0
60	Asymptotic analysis of estimators on multi-label data. Machine Learning, 2015, 99, 373-409.	3.4	0
61	Information-theoretic analysis of MaxCut algorithms. , 2016, , .		0