

Joachim M Buhmann

List of Publications by Year in descending order

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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 | Assessment of Artificial Intelligence in Echocardiography Diagnostics in Differentiating Takotsubo Syndrome From Myocardial Infarction. <i>JAMA Cardiology</i> , 2022, 7, 494. | 3.0 | 18 |
| 2 | Automatic Detection of Atrial Fibrillation from Single-Lead ECG Using Deep Learning of the Cardiac Cycle. <i>BME Frontiers</i> , 2022, 2022, . | 2.2 | 9 |
| 3 | Entrack: Probabilistic Spherical Regression with Entropy Regularization for Fiber Tractography. <i>International Journal of Computer Vision</i> , 2021, 129, 656-680. | 10.9 | 8 |
| 4 | Improving 1-year mortality prediction in ACS patients using machine learning. <i>European Heart Journal: Acute Cardiovascular Care</i> , 2021, 10, 855-865. | 0.4 | 9 |
| 5 | Self-supervised representation learning for surgical activity recognition. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 2037-2044. | 1.7 | 3 |
| 6 | Instance Segmentation for the Quantification of Microplastic Fiber Images. , 2020, , . | | 7 |
| 7 | Generative Aging Of Brain MRI For Early Prediction Of MCI-AD Conversion. , 2019, , . | | 13 |
| 8 | SPINDLE: End-to-end learning from EEG/EMG to extrapolate animal sleep scoring across experimental settings, labs and species. <i>PLoS Computational Biology</i> , 2019, 15, e1006968. | 1.5 | 51 |
| 9 | Validity of GRE General Test scores and TOEFL scores for graduate admission to a technical university in Western Europe. <i>European Journal of Engineering Education</i> , 2018, 43, 144-165. | 1.5 | 6 |
| 10 | Wheel Defect Detection With Machine Learning. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 1176-1187. | 4.7 | 145 |
| 11 | A generative model of whole-brain effective connectivity. <i>NeuroImage</i> , 2018, 179, 505-529. | 2.1 | 83 |
| 12 | Regression DCM for fMRI. <i>NeuroImage</i> , 2017, 155, 406-421. | 2.1 | 124 |
| 13 | Glaucoma detection using entropy sampling and ensemble learning for automatic optic cup and disc segmentation. <i>Computerized Medical Imaging and Graphics</i> , 2017, 55, 28-41. | 3.5 | 278 |
| 14 | TI-POOLING: Transformation-Invariant Pooling for Feature Learning in Convolutional Neural Networks. , 2016, , . | | 143 |
| 15 | Information-theoretic analysis of MaxCut algorithms. , 2016, , . | | 0 |
| 16 | Is There an Association Between Pain and Magnetic Resonance Imaging Parameters in Patients With Lumbar Spinal Stenosis?. <i>Spine</i> , 2016, 41, E1053-E1062. | 1.0 | 44 |
| 17 | Active learning based segmentation of Crohns disease from abdominal MRI. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 128, 75-85. | 2.6 | 21 |
| 18 | Visual saliency-based active learning for prostate magnetic resonance imaging segmentation. <i>Journal of Medical Imaging</i> , 2016, 3, 014003. | 0.8 | 10 |

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|----|--|-----|-----------|
| 19 | Prediction of colorectal cancer diagnosis based on circulating plasma proteins. <i>EMBO Molecular Medicine</i> , 2015, 7, 1166-1178. | 3.3 | 80 |
| 20 | Greedy MaxCut algorithms and their information content. , 2015, , . | | 4 |
| 21 | Automatic single cell segmentation on highly multiplexed tissue images. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2015, 87, 936-942. | 1.1 | 53 |
| 22 | Crowdsourcing the creation of image segmentation algorithms for connectomics. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 142. | 0.9 | 248 |
| 23 | Inversion of hierarchical Bayesian models using Gaussian processes. <i>NeuroImage</i> , 2015, 118, 133-145. | 2.1 | 12 |
| 24 | Asymptotic analysis of estimators on multi-label data. <i>Machine Learning</i> , 2015, 99, 373-409. | 3.4 | 0 |
| 25 | Inferring causal metabolic signals that regulate the dynamic <scp>TORC</scp> 1â€dependent transcriptome. <i>Molecular Systems Biology</i> , 2015, 11, 802. | 3.2 | 49 |
| 26 | A field of experts model for optic cup and disc segmentation from retinal fundus images. , 2015, , . | | 8 |
| 27 | How informative are Minimum Spanning Tree algorithms?. , 2014, , . | | 6 |
| 28 | Highly multiplexed imaging of tumor tissues with subcellular resolution by mass cytometry. <i>Nature Methods</i> , 2014, 11, 417-422. | 9.0 | 1,430 |
| 29 | Sparse feature selection by information theory. , 2014, , . | | 2 |
| 30 | Dissecting psychiatric spectrum disorders by generative embedding. <i>NeuroImage: Clinical</i> , 2014, 4, 98-111. | 1.4 | 150 |
| 31 | Crohn's disease tissue segmentation from abdominal MRI using semantic information and graph cuts. , 2013, , . | | 8 |
| 32 | Weakly supervised semantic segmentation of Crohn's disease tissues from abdominal MRI. , 2013, , . | | 5 |
| 33 | Automatic cardiac RV segmentation using semantic information with graph cuts. , 2013, , . | | 17 |
| 34 | Semi-Supervised and Active Learning for Automatic Segmentation of Crohnâ€™s Disease. <i>Lecture Notes in Computer Science</i> , 2013, 16, 214-221. | 1.0 | 18 |
| 35 | The information content in sorting algorithms. , 2012, , . | | 7 |
| 36 | Learning Dictionaries With Bounded Self-Coherence. <i>IEEE Signal Processing Letters</i> , 2012, 19, 861-864. | 2.1 | 39 |

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|----|--|------|-----------|
| 37 | Weakly supervised structured output learning for semantic segmentation. , 2012, , . | | 96 |
| 38 | Generic Comparison of Protein Inference Engines. Molecular and Cellular Proteomics, 2012, 11, O110.007088. | 2.5 | 20 |
| 39 | Speech Enhancement Using Generative Dictionary Learning. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 1698-1712. | 3.8 | 82 |
| 40 | Selecting the rank of truncated SVD by maximum approximation capacity. , 2011, , . | | 8 |
| 41 | The Minimum Transfer Cost Principle for Model-Order Selection. Lecture Notes in Computer Science, 2011, , 423-438. | 1.0 | 5 |
| 42 | Proteome Coverage Prediction for Integrated Proteomics Datasets. Journal of Computational Biology, 2011, 18, 283-293. | 0.8 | 8 |
| 43 | Regularized online learning of pseudometrics. , 2010, , . | | 0 |
| 44 | Speech enhancement with sparse coding in learned dictionaries. , 2010, , . | | 41 |
| 45 | Information theoretic model validation for clustering. , 2010, , . | | 26 |
| 46 | Neuron geometry extraction by perceptual grouping in ssTEM images. , 2010, , . | | 58 |
| 47 | The Binormal Assumption on Precision-Recall Curves. , 2010, , . | | 40 |
| 48 | Proteome Coverage Prediction for Integrated Proteomics Datasets. Lecture Notes in Computer Science, 2010, , 96-109. | 1.0 | 2 |
| 49 | Inter-active learning of randomized tree ensembles for object detection. , 2009, , . | | 4 |
| 50 | Stable Bayesian Parameter Estimation for Biological Dynamical Systems. , 2009, , . | | 11 |
| 51 | Multi-assignment clustering for Boolean data. , 2009, , . | | 44 |
| 52 | Seeing the Objects Behind the Dots: Recognition in Videos from a Moving Camera. International Journal of Computer Vision, 2009, 83, 57-71. | 10.9 | 33 |
| 53 | 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 |
| 54 | Nonparametric Bayesian Image Segmentation. International Journal of Computer Vision, 2008, 77, 25-45. | 10.9 | 81 |

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|----|--|-----|-----------|
| 55 | Robust Image Segmentation Using Resampling and Shape Constraints. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1147-1164. | 9.7 | 15 |
| 56 | Bayesian Order-Adaptive Clustering for Video Segmentation. Lecture Notes in Computer Science, 2007, , 334-349. | 1.0 | 1 |
| 57 | On the information and representation of non-Euclidean pairwise data. Pattern Recognition, 2006, 39, 1815-1826. | 5.1 | 49 |
| 58 | Smooth Image Segmentation by Nonparametric Bayesian Inference. Lecture Notes in Computer Science, 2006, , 444-457. | 1.0 | 11 |
| 59 | Stability-Based Validation of Clustering Solutions. Neural Computation, 2004, 16, 1299-1323. | 1.3 | 389 |
| 60 | Empirical Evaluation of Dissimilarity Measures for Color and Texture. Computer Vision and Image Understanding, 2001, 84, 25-43. | 3.0 | 259 |
| 61 | Histogram clustering for unsupervised segmentation and image retrieval. Pattern Recognition Letters, 1999, 20, 899-909. | 2.6 | 79 |