

Ullrich Koethe

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/495762/publications.pdf>

Version: 2024-02-01

45
papers

3,905
citations

430874

18
h-index

377865

34
g-index

45
all docs

45
docs citations

45
times ranked

6741
citing authors

#	ARTICLE	IF	CITATIONS
1	Amortized Bayesian Model Comparison With Evidential Deep Learning. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 4903-4917.	11.3	7
2	BayesFlow: Learning Complex Stochastic Models With Invertible Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1452-1466.	11.3	37
3	Emission-line diagnostics of H– regions using conditional invertible neural networks. Monthly Notices of the Royal Astronomical Society, 2022, 512, 617-647.	4.4	8
4	Inference of cosmic-ray source properties by conditional invertible neural networks. European Physical Journal C, 2022, 82, 1.	3.9	9
5	The Mutex Watershed and its Objective: Efficient, Parameter-Free Graph Partitioning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3724-3738.	13.9	23
6	Characterizing the Role of a Single Coupling Layer in Affine Normalizing Flows. Lecture Notes in Computer Science, 2021, , 1-14.	1.3	0
7	Measuring Young Stars in Space and Time. I. The Photometric Catalog and Extinction Properties of N44. Astronomical Journal, 2021, 161, 256.	4.7	2
8	Measuring Young Stars in Space and Time. II. The Pre-main-sequence Stellar Content of N44. Astronomical Journal, 2021, 161, 257.	4.7	6
9	Discovering Digital Tumor Signatures" Using Latent Code Representations to Manipulate and Classify Liver Lesions. Cancers, 2021, 13, 3108.	3.7	1
10	OutbreakFlow: Model-based Bayesian inference of disease outbreak dynamics with invertible neural networks and its application to the COVID-19 pandemics in Germany. PLoS Computational Biology, 2021, 17, e1009472.	3.2	19
11	Towards end-to-end likelihood-free inference with convolutional neural networks. British Journal of Mathematical and Statistical Psychology, 2020, 73, 23-43.	1.4	17
12	Stellar parameter determination from photometry using invertible neural networks. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5447-5485.	4.4	16
13	Invertible networks or partons to detector and back again. SciPost Physics, 2020, 9, .	4.9	47
14	ilastik: interactive machine learning for (bio)image analysis. Nature Methods, 2019, 16, 1226-1232.	19.0	1,824
15	Can Virtual Contrast Enhancement in Brain MRI Replace Gadolinium?. Investigative Radiology, 2019, 54, 653-660.	6.2	93
16	Training Invertible Neural Networks as Autoencoders. Lecture Notes in Computer Science, 2019, , 442-455.	1.3	2
17	The Mutex Watershed: Efficient, Parameter-Free Image Partitioning. Lecture Notes in Computer Science, 2018, , 571-587.	1.3	30
18	Multicut brings automated neurite segmentation closer to human performance. Nature Methods, 2017, 14, 101-102.	19.0	126

#	ARTICLE	IF	CITATIONS
19	Learned Watershed: End-to-End Learning of Seeded Segmentation. , 2017, , .		25
20	Segmenting and Tracking Multiple Dividing Targets Using ilastik. Advances in Anatomy, Embryology and Cell Biology, 2016, 219, 199-229.	1.6	44
21	An Efficient Fusion Move Algorithm for the Minimum Cost Lifted Multicut Problem. Lecture Notes in Computer Science, 2016, , 715-730.	1.3	21
22	DALSA: Domain Adaptation for Supervised Learning From Sparsely Annotated MR Images. IEEE Transactions on Medical Imaging, 2016, 35, 184-196.	8.9	68
23	Automated tracing of myelinated axons and detection of the nodes of Ranvier in serial images of peripheral nerves. Journal of Microscopy, 2015, 259, 143-154.	1.8	15
24	Graphical model for joint segmentation and tracking of multiple dividing cells. Bioinformatics, 2015, 31, 948-956.	4.1	75
25	Proof-reading guidance in cell tracking by sampling from tracking-by-assignment models. , 2015, , .		2
26	Automated Detection of Synapses in Serial Section Transmission Electron Microscopy Image Stacks. PLoS ONE, 2014, 9, e87351.	2.5	49
27	Multiple Instance Learning with Response-Optimized Random Forests. , 2014, , .		4
28	Tracking Indistinguishable Translucent Objects over Time Using Weakly Supervised Structured Learning. , 2014, , .		17
29	SimpleSTORM: a fast, self-calibrating reconstruction algorithm for localization microscopy. Histochemistry and Cell Biology, 2014, 141, 613-627.	1.7	13
30	Asymmetric Cuts: Joint Image Labeling and Partitioning. Lecture Notes in Computer Science, 2014, , 199-211.	1.3	7
31	Weakly Supervised Learning of Image Partitioning Using Decision Trees with Structured Split Criteria. , 2013, , .		4
32	Learning to Segment Neurons with Non-local Quality Measures. Lecture Notes in Computer Science, 2013, 16, 419-427.	1.3	10
33	Learning to segment dense cell nuclei with shape prior. , 2012, , .		4
34	Seeded watershed cut uncertainty estimators for guided interactive segmentation. , 2012, , .		12
35	3D segmentation of SBFSEM images of neuropil by a graphical model over supervoxel boundaries. Medical Image Analysis, 2012, 16, 796-805.	11.6	35
36	Geometric Analysis of 3D Electron Microscopy Data. Lecture Notes in Computer Science, 2012, , 93-108.	1.3	1

#	ARTICLE	IF	CITATIONS
37	A Discrete Chain Graph Model for 3d+t Cell Tracking with High Misdetection Robustness. Lecture Notes in Computer Science, 2012, , 144-157.	1.3	21
38	Globally Optimal Closed-Surface Segmentation for Connectomics. Lecture Notes in Computer Science, 2012, , 778-791.	1.3	50
39	Quality Classification of Microscopic Imagery with Weakly Supervised Learning. Lecture Notes in Computer Science, 2012, , 176-183.	1.3	4
40	llastik: Interactive learning and segmentation toolkit. , 2011, , .		754
41	Automated Detection and Segmentation of Synaptic Contacts in Nearly Isotropic Serial Electron Microscopy Images. PLoS ONE, 2011, 6, e24899.	2.5	120
42	Probabilistic image segmentation with closedness constraints. , 2011, , .		67
43	On Oblique Random Forests. Lecture Notes in Computer Science, 2011, , 453-469.	1.3	119
44	Edge and Junction Detection with an Improved Structure Tensor. Lecture Notes in Computer Science, 2003, , 25-32.	1.3	96
45	<title>SMART: system for segmentation matching and reconstruction</title>. , 1993, , .		1