Joachim Denzler

List of Publications by Year
in descending order

88	3,695	567281 15	254184 43
papers	citations	h-index	g-index

90	90	90	4661
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Weakly-supervised Localization of Multiple Objects in Images using Cosine Loss. , 2022, , .		0
2	Generative adversarial networks for biomedical time series forecasting and imputation. Journal of Biomedical Informatics, 2022, 129, 104058.	4.3	13
3	Pre-trained models are not enough: active and lifelong learning is important for long-term visual monitoring of mammals in biodiversity researchâ€"Individual identification and attribute prediction with image features from deep neural networks and decoupled decision models applied to elephants and great apes. Mammalian Biology, 2022, 102, 875-897.	1.5	8
4	Image Classification With Small Datasets: Overview and Benchmark. IEEE Access, 2022, 10, 49233-49250.	4.2	9
5	Automatic Objective Severity Grading of Peripheral Facial Palsy Using 3D Radial Curves Extracted from Point Clouds. Studies in Health Technology and Informatics, 2022, , .	0.3	2
6	Finding Relevant Flood Images on Twitter Using Content-Based Filters. Lecture Notes in Computer Science, 2021, , 5-14.	1.3	3
7	Analyzing the Direction of Emotional Influence in Nonverbal Dyadic Communication: A Facial-Expression Study. IEEE Access, 2021, 9, 73780-73790.	4.2	4
8	Content-Based Image Retrieval and the Semantic Gap in the Deep Learning Era. Lecture Notes in Computer Science, 2021, , 245-260.	1.3	6
9	Making Every Label Count: Handling Semantic Imprecision by Integrating Domain Knowledge. , 2021, , .		2
10	Facial Behavior Analysis using 4D Curvature Statistics for Presentation Attack Detection. , 2021, , .		2
11	EarthNet2021: A large-scale dataset and challenge for Earth surface forecasting as a guided video prediction task. , 2021, , .		14
12	Conditional dependence tests reveal the usage of ABCD rule features and bias variables in automatic skin lesion classification. , 2021, , .		9
13	Automated Visual Large Scale Monitoring of Faunal Biodiversity. Pattern Recognition and Image Analysis, 2021, 31, 477-488.	1.0	0
14	Lightweight Filtering of Noisy Web Data: Augmenting Fine-grained Datasets with Selected Internet Images. , 2021, , .		3
15	A Data-Driven Approach to Partitioning Net Ecosystem Exchange Using a Deep State Space Model. IEEE Access, 2021, 9, 107873-107883.	4.2	2
16	Tune It or Donâ€™t Use It: Benchmarking Data-Efficient Image Classification. , 2021, , .		4
17	End-to-End Learning ofÂFisher Vector Encodings forÂPart Features inÂFine-Grained Recognition. Lecture Notes in Computer Science, 2021, , 142-158.	1.3	6
18	Weakly Supervised Segmentation Pretraining forÂPlant Cover Prediction. Lecture Notes in Computer Science, 2021, , 589-603.	1.3	3

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19	Conditional Adversarial Debiasing: Towards Learning Unbiased Classifiers fromÂBiased Data. Lecture Notes in Computer Science, 2021, , 48-62.	1.3	1
20	Anomaly Attribution of Multivariate Time Series using Counterfactual Reasoning. , 2021, , .		2
21	Causal Inference in Non-linear Time-series using Deep Networks and Knockoff Counterfactuals. , 2021, , .		0
22	The Whole Is More Than Its Parts? From Explicit to Implicit Pose Normalization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 749-763.	13.9	14
23	Region-Based Edge Convolutions With Geometric Attributes for the Semantic Segmentation of Large-Scale 3-D Point Clouds. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 2598-2609.	4.9	1
24	Deep Learning on Small Datasets without Pre-Training using Cosine Loss. , 2020, , .		79
25	Do We Train on Test Data? Purging CIFAR of Near-Duplicates. Journal of Imaging, 2020, 6, 41.	3.0	24
26	Active and Incremental Learning with Weak Supervision. KI - Kunstliche Intelligenz, 2020, 34, 165-180.	3.2	10
27	Single-Shot 3D Detection of Vehicles from Monocular RGB Images via Geometrically Constrained Keypoints in Real-Time. , 2020, , .		12
28	Determining the Relevance of Features for Deep Neural Networks. Lecture Notes in Computer Science, 2020, , 330-346.	1.3	7
29	Towards Confirmable Automated Plant Cover Determination. Lecture Notes in Computer Science, 2020, , 312-329.	1.3	3
30	Fully convolutional networks in multimodal nonlinear microscopy images for automated detection of head and neck carcinoma: Pilot study. Head and Neck, 2019, 41, 116-121.	2.0	33
31	Extreme anomaly event detection in biosphere using linear regression and a spatiotemporal MRF model. Natural Hazards, 2019, 98, 849-867.	3.4	7
32	Beyond Bounding Boxes: Using Bounding Shapes for Real-Time 3D Vehicle Detection from Monocular RGB Images. , 2019, , .		5
33	Automated objective and marker-free facial grading using photographs of patients with facial palsy. European Archives of Oto-Rhino-Laryngology, 2019, 276, 3335-3343.	1.6	29
34	Hierarchy-Based Image Embeddings for Semantic Image Retrieval. , 2019, , .		47
35	Deep learning and process understanding for data-driven Earth system science. Nature, 2019, 566, 195-204.	27.8	2,176
36	Registration of High Resolution Sar and Optical Satellite Imagery Using Fully Convolutional Networks. , 2019, , .		13

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37	Edge-Convolution Point Net for Semantic Segmentation of Large-Scale Point Clouds. , 2019, , .		14
38	ELPephants: A Fine-Grained Dataset for Elephant Re-Identification. , 2019, , .		17
39	Detecting Regions of Maximal Divergence for Spatio-Temporal Anomaly Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1088-1101.	13.9	52
40	Information-Theoretic Active Learning for Content-Based Image Retrieval. Lecture Notes in Computer Science, 2019, , 650-666.	1.3	2
41	Predicting Landscapes from Environmental Conditions Using Generative Networks. Lecture Notes in Computer Science, 2019, , 203-217.	1.3	3
42	Classification-Specific Parts for Improving Fine-Grained Visual Categorization. Lecture Notes in Computer Science, 2019, , 62-75.	1.3	19
43	Active Learning for Deep Object Detection. , 2019, , .		33
44	Nonlinear Causal Link Estimation Under Hidden Confounding with an Application to Time Series Anomaly Detection. Lecture Notes in Computer Science, 2019, , 261-273.	1.3	3
45	<scp>HER</scp>2 challenge contest: a detailed assessment of automated <scp>HER</scp>2 scoring algorithms in whole slide images of breast cancer tissues. Histopathology, 2018, 72, 227-238.	2.9	102
46	MB-Net: MergeBoxes for Real-Time 3D Vehicles Detection. , 2018, , .		7
47	Automatic Query Image Disambiguation for Content-based Image Retrieval. , 2018, , .		1
48	Automatic Classification of Cancerous Tissue in Laserendomicroscopy Images of the Oral Cavity using Deep Learning. Scientific Reports, 2017, 7, 11979.	3.3	194
49	Large-Scale Gaussian Process Inference with Generalized Histogram Intersection Kernels for Visual Recognition Tasks. International Journal of Computer Vision, 2017, 121, 253-280.	15.6	6
50	Judging Aesthetic Quality in Paintings Based on Artistic Inspired Color Features. , 2017, , .		4
51	Maximally divergent intervals for extreme weather event detection. , 2017, , .		7
52	Generalized Orderless Pooling Performs Implicit Salient Matching. , 2017, , .		24
53	A Feedback Estimation Approach for Therapeutic Facial Training. , 2017, , .		2
54	Using Color Difference Equations for Calculating Gradient Images. , 2017, , .		1

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55	Modelling ocean parameters through graphical models. , 2017, , .		0
56	Towards Automated Visual Monitoring of Individual Gorillas in the Wild. , 2017, , .		44
57	Deep bilinear features for Her2 scoring in digital pathology. Current Directions in Biomedical Engineering, 2017, 3, 811-814.	0.4	6
58	Fine-Tuning Deep Neural Networks in Continuous Learning Scenarios. Lecture Notes in Computer Science, 2017, , 588-605.	1.3	29
59	Anatomical Landmark Tracking by One-shot Learned Priors for Augmented Active Appearance Models. , 2017, , .		3
60	Automated analysis of confocal laser endomicroscopy images to detect head and neck cancer. Head and Neck, 2016, 38, E1419-26.	2.0	30
61	An automated whisker tracking tool for the rat facial nerve injury paradigm. Journal of Neuroscience Methods, 2016, 271, 143-148.	2.5	15
62	Fully automated tracking of cardiac structures using radiopaque markers and high-frequency videofluoroscopy in an in vivo ovine model: from three-dimensional marker coordinates to quantitative analyses. SpringerPlus, 2016, 5, 220.	1.2	4
63	Large-Scale Active Learning with Approximations of Expected Model Output Changes. Lecture Notes in Computer Science, 2016, , 179-191.	1.3	8
64	Chimpanzee Faces in the Wild: Log-Euclidean CNNs for Predicting Identities and Attributes of Primates. Lecture Notes in Computer Science, 2016, , 51-63.	1.3	47
65	Fine-grained Recognition in the Noisy Wild: Sensitivity Analysis of Convolutional Neural Networks Approaches. , 2016, , .		29
66	Mixed gaits in small avian terrestrial locomotion. Scientific Reports, 2015, 5, 13636.	3.3	20
67	Beyond thinking in common categories: Predicting obstacle vulnerability using large random codebooks. , 2015, , .		1
68	Active learning and discovery of object categories in the presence of unnameable instances. , 2015, , .		31
69	Local Novelty Detection in Multi-class Recognition Problems. , 2015, , .		29
70	Novel computer vision algorithm for the reliable analysis of organelle morphology in whole cell 3D images â€" A pilot study for the quantitative evaluation of mitochondrial fragmentation in amyotrophic lateral sclerosis. Mitochondrion, 2015, 25, 49-59.	3.4	8
71	Instance-Weighted Transfer Learning of Active Appearance Models. , 2014, , .		15
72	Nonparametric Part Transfer for Fine-Grained Recognition. , 2014, , .		69

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73	Selecting Influential Examples: Active Learning with Expected Model Output Changes. Lecture Notes in Computer Science, 2014, , 562-577.	1.3	95
74	A combination of generative and discriminative models for fast unsupervised activity recognition from traffic scene videos. , 2014, , .		2
75	Evaluating the Rule of Thirds in Photographs and Paintings. Art and Perception, 2014, 2, 163-182.	0.5	20
76	Hierarchical Dirichlet Processes for unsupervised online multi-view action perception using Temporal Self-Similarity features. , 2013, , .		0
77	Kernel Null Space Methods for Novelty Detection. , 2013, , .		73
78	Labeling Examples That Matter: Relevance-Based Active Learning with Gaussian Processes. Lecture Notes in Computer Science, 2013, , 282-291.	1.3	18
79	Analyzing the Subspaces Obtained by Dimensionality Reduction for Human Action Recognition from 3d Data. , 2012, , .		3
80	Exploiting the Manhattan-world assumption for extrinsic self-calibration of multi-modal sensor networks. , 2011, , .		0
81	SELF-CALIBRATION OF CAMERA NETWORKS: ACTIVE AND PASSIVE METHODS. Series in Computer Vision, 2011, , 447-469.	0.1	3
82	A Fast Approach for Pixelwise Labeling of Facade Images. , 2010, , .		27
83	Multiple kernel Gaussian process classification for generic 3D object recognition. , 2010, , .		3
84	Geometric and probabilistic image dissimilarity measures for common field of view detection. , 2009, , .		2
85	Geometric and probabilistic image dissimilarity measures for common field of view detection. , 2009, , .		2
86	Difference of Boxes Filters Revisited: Shadow Suppression and Efficient Character Segmentation. , 2008, , .		5
87	A virtual â€œWerkstattâ€•for digitization in the sciences. Research Ideas and Outcomes, 0, 6, .	1.0	2
88	Partitioning of Net Ecosystem Exchange Using Dynamic Mode Decomposition and Time Delay Embedding. , 0, , .		0