

Matthew B Blaschko

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

3,557
citations

361413

20
h-index

345221

36
g-index

58
all docs

58
docs citations

58
times ranked

3316
citing authors

#	ARTICLE	IF	CITATIONS
1	Beyond sliding windows: Object localization by efficient subwindow search. , 2008, , .		496
2	A Discriminatively Trained Fully Connected Conditional Random Field Model for Blood Vessel Segmentation in Fundus Images. IEEE Transactions on Biomedical Engineering, 2017, 64, 16-27.	4.2	370
3	The Lovasz-Softmax Loss: A Tractable Surrogate for the Optimization of the Intersection-Over-Union Measure in Neural Networks. , 2018, , .		364
4	Efficient Subwindow Search: A Branch and Bound Framework for Object Localization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 2129-2142.	13.9	289
5	An ensemble deep learning based approach for red lesion detection in fundus images. Computer Methods and Programs in Biomedicine, 2018, 153, 115-127.	4.7	199
6	Optimization for Medical Image Segmentation: Theory and Practice When Evaluating With Dice Score or Jaccard Index. IEEE Transactions on Medical Imaging, 2020, 39, 3679-3690.	8.9	186
7	Learning to Localize Objects with Structured Output Regression. Lecture Notes in Computer Science, 2008, , 2-15.	1.3	162
8	Unsupervised Object Discovery: A Comparison. International Journal of Computer Vision, 2010, 88, 284-302.	15.6	149
9	Correlational spectral clustering. , 2008, , .		143
10	Encoder Based Lifelong Learning. , 2017, , .		134
11	Optimizing the Dice Score and Jaccard Index for Medical Image Segmentation: Theory and Practice. Lecture Notes in Computer Science, 2019, , 92-100.	1.3	133
12	Learning a category independent object detection cascade. , 2011, , .		114
13	Artery&vein segmentation in fundus images using a fully convolutional network. Computerized Medical Imaging and Graphics, 2019, 76, 101636.	5.8	73
14	Learning Fully-Connected CRFs for Blood Vessel Segmentation in Retinal Images. Lecture Notes in Computer Science, 2014, 17, 634-641.	1.3	66
15	Understanding Objects in Detail with Fine-Grained Attributes. , 2014, , .		62
16	Convolutional neural network transfer for automated glaucoma identification. Proceedings of SPIE, 2017, , .	0.8	48
17	Automatic In Situ Identification of Plankton. , 2005, , .		43
18	Semi-supervised kernel canonical correlation analysis with application to human fMRI. Pattern Recognition Letters, 2011, 32, 1572-1583.	4.2	42

#	ARTICLE	IF	CITATIONS
19	Pathological myopia classification with simultaneous lesion segmentation using deep learning. Computer Methods and Programs in Biomedicine, 2021, 199, 105920.	4.7	42
20	Deep learning on fundus images detects glaucoma beyond the optic disc. Scientific Reports, 2021, 11, 20313.	3.3	40
21	Semi-supervised Laplacian Regularization of Kernel Canonical Correlation Analysis. Lecture Notes in Computer Science, 2008, , 133-145.	1.3	37
22	Scattering Networks for Hybrid Representation Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2208-2221.	13.9	36
23	Towards a Glaucoma Risk Index Based on Simulated Hemodynamics from Fundus Images. Lecture Notes in Computer Science, 2018, , 65-73.	1.3	31
24	Object Localization with Global and Local Context Kernels. , 2009, , .		28
25	Structured prediction by joint kernel support estimation. Machine Learning, 2009, 77, 249-269.	5.4	26
26	<i>Semixup</i>: In- and Out-of-Manifold Regularization for Deep Semi-Supervised Knee Osteoarthritis Severity Grading From Plain Radiographs. IEEE Transactions on Medical Imaging, 2020, 39, 4346-4356.	8.9	24
27	Learning equivariant structured output SVM regressors. , 2011, , .		23
28	Proliferative diabetic retinopathy characterization based on fractal features: Evaluation on a publicly available dataset. Medical Physics, 2017, 44, 6425-6434.	3.0	22
29	A Multiple Kernel Learning Approach to Joint Multi-class Object Detection. Lecture Notes in Computer Science, 2008, , 31-40.	1.3	21
30	A Bayesian Optimization Framework for Neural Network Compression. , 2019, , .		15
31	The LovÅ¡sz Hinge: A Novel Convex Surrogate for Submodular Losses. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 735-748.	13.9	15
32	Non Maximal Suppression in Cascaded Ranking Models. Lecture Notes in Computer Science, 2013, , 408-419.	1.3	14
33	Intraoperative margin assessment of human breast tissue in optical coherence tomography images using deep neural networks. Computerized Medical Imaging and Graphics, 2018, 69, 21-32.	5.8	13
34	Predictive sparse modeling of fMRI data for improved classification, regression, and visualization using the k-support norm. Computerized Medical Imaging and Graphics, 2015, 46, 40-46.	5.8	12
35	Discovering predictors of mental health service utilization with k-support regularized logistic regression. Information Sciences, 2016, 329, 937-949.	6.9	12
36	Post Training Uncertainty Calibration Of Deep Networks For Medical Image Segmentation. , 2021, , .		11

#	ARTICLE	IF	CITATIONS
37	Branch and Bound Strategies for Non-maximal Suppression in Object Detection. Lecture Notes in Computer Science, 2011, , 385-398.	1.3	11
38	Taxonomic Multi-class Prediction and Person Layout Using Efficient Structured Ranking. Lecture Notes in Computer Science, 2012, , 245-258.	1.3	7
39	Benchmarking Scalable Predictive Uncertainty in Text Classification. IEEE Access, 2022, 10, 43703-43737.	4.2	6
40	Additive Tree-Structured Conditional Parameter Spaces in Bayesian Optimization: A Novel Covariance Function and a Fast Implementation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3024-3036.	13.9	5
41	fMRI analysis of cocaine addiction using k-support sparsity. , 2013, , .		4
42	Discriminative training of CRF models with probably submodular constraints. , 2016, , .		4
43	Efficient, dense, object-based segmentation from RGBD video. , 2016, , .		4
44	fMRI Analysis with Sparse Weisfeiler-Lehman Graph Statistics. Lecture Notes in Computer Science, 2013, , 90-97.	1.3	4
45	Convex relaxations of penalties for sparse correlated variables with bounded total variation. Machine Learning, 2015, 100, 533-553.	5.4	3
46	On the Relationship Between Calibrated Predictors and Unbiased Volume Estimation. Lecture Notes in Computer Science, 2021, , 678-688.	1.3	3
47	Taxonomic Prediction with Tree-Structured Covariances. Lecture Notes in Computer Science, 2013, , 304-319.	1.3	3
48	Kinematics Design of a MacPherson Suspension Architecture Based on Bayesian Optimization. IEEE Transactions on Cybernetics, 2023, 53, 2261-2274.	9.5	3
49	Learning from M/EEG Data with Variable Brain Activation Delays. Lecture Notes in Computer Science, 2013, 23, 414-425.	1.3	2
50	Guest Editorial: Special Issue on Structured Prediction and Inference. International Journal of Computer Vision, 2012, 99, 257-258.	15.6	1
51	The pyramid quantized Weisfeiler-Lehman graph representation. Neurocomputing, 2016, 173, 1495-1507.	5.9	1
52	Sparse Classification with MRI Based Markers for Neuromuscular Disease Categorization. Lecture Notes in Computer Science, 2013, , 33-40.	1.3	1
53	Discriminative Training of Conditional Random Fields with Probably Submodular Constraints. International Journal of Computer Vision, 2020, 128, 1722-1735.	15.6	0
54	Remote Sensing and Deep Learning for Environmental Policy Support: From Theory to Practice. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
55	An $O(n \log n)$ Cutting Plane Algorithm for Structured Output Ranking. Lecture Notes in Computer Science, 2014, , 132-143.	1.3	0
56	Efficient Learning for Discriminative Segmentation with Supermodular Losses. , 2016, , .		0
57	Correction to: Towards a Glaucoma Risk Index Based on Simulated Hemodynamics from Fundus Images. Lecture Notes in Computer Science, 2018, , E1-E1.	1.3	0
58	Slack and Margin Rescaling as Convex Extensions of Supermodular Functions. Lecture Notes in Computer Science, 2018, , 439-454.	1.3	0