

Matthew B Blaschko

List of Publications by Year in descending order

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58
papers

3,557
citations

361413

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58
all docs

58
docs citations

58
times ranked

3316
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinematics Design of a MacPherson Suspension Architecture Based on Bayesian Optimization. IEEE Transactions on Cybernetics, 2023, 53, 2261-2274.	9.5	3
2	Benchmarking Scalable Predictive Uncertainty in Text Classification. IEEE Access, 2022, 10, 43703-43737.	4.2	6
3	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
4	Pathological myopia classification with simultaneous lesion segmentation using deep learning. Computer Methods and Programs in Biomedicine, 2021, 199, 105920.	4.7	42
5	Post Training Uncertainty Calibration Of Deep Networks For Medical Image Segmentation. , 2021, , .		11
6	On the Relationship Between Calibrated Predictors and Unbiased Volume Estimation. Lecture Notes in Computer Science, 2021, , 678-688.	1.3	3
7	Remote Sensing and Deep Learning for Environmental Policy Support: From Theory to Practice. , 2021, , .		0
8	Deep learning on fundus images detects glaucoma beyond the optic disc. Scientific Reports, 2021, 11, 20313.	3.3	40
9	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
10	<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
11	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
12	Discriminative Training of Conditional Random Fields with Probably Submodular Constraints. International Journal of Computer Vision, 2020, 128, 1722-1735.	15.6	0
13	Scattering Networks for Hybrid Representation Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2208-2221.	13.9	36
14	Arteryâ€vein segmentation in fundus images using a fully convolutional network. Computerized Medical Imaging and Graphics, 2019, 76, 101636.	5.8	73
15	A Bayesian Optimization Framework for Neural Network Compression. , 2019, , .		15
16	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
17	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
18	The Lovasz-Softmax Loss: A Tractable Surrogate for the Optimization of the Intersection-Over-Union Measure in Neural Networks. , 2018, , .		364

#	ARTICLE	IF	CITATIONS
19	Towards a Glaucoma Risk Index Based on Simulated Hemodynamics from Fundus Images. Lecture Notes in Computer Science, 2018, , 65-73.	1.3	31
20	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
21	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
22	Slack and Margin Rescaling as Convex Extensions of Supermodular Functions. Lecture Notes in Computer Science, 2018, , 439-454.	1.3	0
23	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
24	Convolutional neural network transfer for automated glaucoma identification. Proceedings of SPIE, 2017, , .	0.8	48
25	Proliferative diabetic retinopathy characterization based on fractal features: Evaluation on a publicly available dataset. Medical Physics, 2017, 44, 6425-6434.	3.0	22
26	Encoder Based Lifelong Learning. , 2017, , .		134
27	Discriminative training of CRF models with probably submodular constraints. , 2016, , .		4
28	Efficient, dense, object-based segmentation from RGBD video. , 2016, , .		4
29	The pyramid quantized Weisfeiler-Lehman graph representation. Neurocomputing, 2016, 173, 1495-1507.	5.9	1
30	Discovering predictors of mental health service utilization with k-support regularized logistic regression. Information Sciences, 2016, 329, 937-949.	6.9	12
31	Efficient Learning for Discriminative Segmentation with Supermodular Losses. , 2016, , .		0
32	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
33	Convex relaxations of penalties for sparse correlated variables with bounded total variation. Machine Learning, 2015, 100, 533-553.	5.4	3
34	Understanding Objects in Detail with Fine-Grained Attributes. , 2014, , .		62
35	Learning Fully-Connected CRFs for Blood Vessel Segmentation in Retinal Images. Lecture Notes in Computer Science, 2014, 17, 634-641.	1.3	66
36	An $\mathcal{O}(n \log n)$ Cutting Plane Algorithm for Structured Output Ranking. Lecture Notes in Computer Science, 2014, , 132-143.	1.3	0

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37	FMRI analysis of cocaine addiction using k-support sparsity. , 2013, , .		4
38	fMRI Analysis with Sparse Weisfeiler-Lehman Graph Statistics. Lecture Notes in Computer Science, 2013, , 90-97.	1.3	4
39	Learning from M/EEG Data with Variable Brain Activation Delays. Lecture Notes in Computer Science, 2013, 23, 414-425.	1.3	2
40	Taxonomic Prediction with Tree-Structured Covariances. Lecture Notes in Computer Science, 2013, , 304-319.	1.3	3
41	Sparse Classification with MRI Based Markers for Neuromuscular Disease Categorization. Lecture Notes in Computer Science, 2013, , 33-40.	1.3	1
42	Non Maximal Suppression in Cascaded Ranking Models. Lecture Notes in Computer Science, 2013, , 408-419.	1.3	14
43	Guest Editorial: Special Issue on Structured Prediction and Inference. International Journal of Computer Vision, 2012, 99, 257-258.	15.6	1
44	Taxonomic Multi-class Prediction and Person Layout Using Efficient Structured Ranking. Lecture Notes in Computer Science, 2012, , 245-258.	1.3	7
45	Semi-supervised kernel canonical correlation analysis with application to human fMRI. Pattern Recognition Letters, 2011, 32, 1572-1583.	4.2	42
46	Learning equivariant structured output SVM regressors. , 2011, , .		23
47	Learning a category independent object detection cascade. , 2011, , .		114
48	Branch and Bound Strategies for Non-maximal Suppression in Object Detection. Lecture Notes in Computer Science, 2011, , 385-398.	1.3	11
49	Unsupervised Object Discovery: A Comparison. International Journal of Computer Vision, 2010, 88, 284-302.	15.6	149
50	Structured prediction by joint kernel support estimation. Machine Learning, 2009, 77, 249-269.	5.4	26
51	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
52	Object Localization with Global and Local Context Kernels. , 2009, , .		28
53	Beyond sliding windows: Object localization by efficient subwindow search. , 2008, , .		496
54	Learning to Localize Objects with Structured Output Regression. Lecture Notes in Computer Science, 2008, , 2-15.	1.3	162

#	ARTICLE	IF	CITATIONS
55	Correlational spectral clustering. , 2008, , .		143
56	A Multiple Kernel Learning Approach to Joint Multi-class Object Detection. Lecture Notes in Computer Science, 2008, , 31-40.	1.3	21
57	Semi-supervised Laplacian Regularization of Kernel Canonical Correlation Analysis. Lecture Notes in Computer Science, 2008, , 133-145.	1.3	37
58	Automatic In Situ Identification of Plankton. , 2005, , .		43