Gabriel J Brostow

List of Publications by Year
in descending order

51 papers	6,634 citations	394421 19 h-index	552781 26 g-index
52 all docs	52 docs citations	52 times ranked	4489 citing authors

#	Article	IF	Citations
1	The Temporal Opportunist: Self-Supervised Multi-Frame Monocular Depth. , 2021, , .		123
2	Learning Stereo from Single Images. Lecture Notes in Computer Science, 2020, , 722-740.	1.3	27
3	Predicting Visual Overlap of Images Through Interpretable Non-metric Box Embeddings. Lecture Notes in Computer Science, 2020, , 629-646.	1.3	10
4	Single-Image Depth Prediction Makes Feature Matching Easier. Lecture Notes in Computer Science, 2020, , 473-492.	1.3	14
5	HILC. ACM Transactions on Interactive Intelligent Systems, 2019, 9, 1-27.	3.7	7
6	Digging Into Self-Supervised Monocular Depth Estimation. , 2019, , .		1,090
7	Self-Supervised Monocular Depth Hints. , 2019, , .		146
8	CityNetâ€"Deep learning tools for urban ecoacoustic assessment. Methods in Ecology and Evolution, 2019, 10, 186-197.	5.2	39
9	DiverseNet: When One Right Answer is not Enough. , 2018, , .		13
10	RecurBot. , 2018, , .		1
11	Deep blending for free-viewpoint image-based rendering. ACM Transactions on Graphics, 2018, 37, 1-15.	7.2	172
12	CubeNet: Equivariance to 3D Rotation and Translation. Lecture Notes in Computer Science, 2018, , 585-602.	1.3	43
13	Bat detectiveâ€"Deep learning tools for bat acoustic signal detection. PLoS Computational Biology, 2018, 14, e1005995.	3.2	128
14	Help, It Looks Confusing. , 2017, , .		10
15	Predicting the Perceptual Demands of Urban Driving with Video Regression. , 2017, , .		3
16	Responsive Action-based Video Synthesis. , 2017, , .		3
17	Harmonic Networks: Deep Translation and Rotation Equivariance. , 2017, , .		235
18	Unsupervised Monocular Depth Estimation with Left-Right Consistency. , 2017, , .		1,723

#	Article	IF	Citations
19	Interpretable Transformations with Encoder-Decoder Networks. , 2017, , .		51
20	Seam-hiding for Looping Videos. , 2017, , .		1
21	My Text in Your Handwriting. ACM Transactions on Graphics, 2016, 35, 1-18.	7.2	38
22	Scalable inside-out image-based rendering. ACM Transactions on Graphics, 2016, 35, 1-11.	7.2	100
23	Structured Prediction of Unobserved Voxels from a Single Depth Image. , 2016, , .		107
24	Automated Retinopathy of Prematurity Case Detection with Convolutional Neural Networks. Lecture Notes in Computer Science, 2016, , 68-76.	1.3	42
25	Roto++. ACM Transactions on Graphics, 2016, 35, 1-15.	7.2	26
26	Multi-view Reconstruction of Highly Specular Surfaces in Uncontrolled Environments. , 2015, , .		20
27	RAPter. ACM Transactions on Graphics, 2015, 34, 1-12.	7.2	126
28	QuantiFly: Robust Trainable Software for Automated Drosophila Egg Counting. PLoS ONE, 2015, 10, e0127659.	2.5	28
29	Becoming the expert - interactive multi-class machine teaching. , 2015, , .		36
30	Learning to Remove Soft Shadows. ACM Transactions on Graphics, 2015, 34, 1-15.	7.2	91
31	Putting the Scientist in the Loop -- Accelerating Scientific Progress with Interactive Machine Learning. , 2014, , .		11
32	Hierarchical Subquery Evaluation for Active Learning on a Graph. , 2014, , .		40
33	Learning a Confidence Measure for Optical Flow. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1107-1120.	13.9	74
34	Revisiting Example Dependent Cost-Sensitive Learning with Decision Trees. , 2013, , .		7
35	On Performance Analysis of Optical Flow Algorithms. Lecture Notes in Computer Science, 2012, , 329-355.	1.3	9
36	Patch Based Synthesis for Single Depth Image Super-Resolution. Lecture Notes in Computer Science, 2012, , 71-84.	1.3	96

#	Article	IF	Citations
37	Motion Models that Only Work Sometimes. , 2012, , .		19
38	Learning to find occlusion regions. , 2011, , .		42
39	Capturing Time-of-Flight data with confidence. , 2011, , .		75
40	Video Normals from Colored Lights. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 2104-2114.	13.9	32
41	3D Reconstruction and Video-Based Rendering of Casually Captured Videos. Lecture Notes in Computer Science, 2011, , 77-103.	1.3	1
42	Unstructured video-based rendering. ACM Transactions on Graphics, 2010, 29, 1-11.	7.2	68
43	Segmenting video into classes of algorithm-suitability. , 2010, , .		22
44	Semantic object classes in video: A high-definition ground truth database. Pattern Recognition Letters, 2009, 30, 88-97.	4.2	929
45	Segmentation and Recognition Using Structure from Motion Point Clouds. Lecture Notes in Computer Science, 2008, , 44-57.	1.3	497
46	Non-rigid Photometric Stereo with Colored Lights. , 2007, , .		99
47	Assisted Video Object Labeling By Joint Tracking of Regions and Keypoints. , 2007, , .		20
48	Semantic Photo Synthesis. Computer Graphics Forum, 2006, 25, 407-413.	3.0	43
49	Novel Skeletal Representation for Articulated Creatures. Lecture Notes in Computer Science, 2004, , 66-78.	1.3	20
50	Presenting Movement in a Computer-Based Dance Tutor. International Journal of Human-Computer Interaction, 2003, 15, 433-452.	4.8	11
51	Image-based motion blur for stop motion animation. , 2001, , .		66