

Jean François Lalonde

List of Publications by Year in descending order

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66
papers

2,972
citations

361045

20
h-index

454577

30
g-index

66
all docs

66
docs citations

66
times ranked

1722
citing authors

#	ARTICLE	IF	CITATIONS
1	Inferring the solution space of microscope objective lenses using deep learning. Optics Express, 2022, 30, 6531.	1.7	11
2	Imagery datasets for photobiological lighting analysis of architectural models with shading panels. Data in Brief, 2022, 42, 108278.	0.5	3
3	Biophilic, photobiological and energy-efficient design framework of adaptive building façades for Northern Canada. Indoor and Built Environment, 2021, 30, 665-691.	1.5	11
4	Rain Rendering for Evaluating and Improving Robustness to Bad Weather. International Journal of Computer Vision, 2021, 129, 341-360.	10.9	45
5	Deep Template-based Object Instance Detection. , 2021, , .		9
6	Biophilic photobiological adaptive envelopes for sub-Arctic buildings: Exploring impacts of window sizes and shading panels' color, reflectance, and configuration. Solar Energy, 2021, 220, 802-827.	2.9	11
7	Single Day Outdoor Photometric Stereo. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2062-2074.	9.7	12
8	Deep learning-enabled framework for automatic lens design starting point generation. Optics Express, 2021, 29, 3841.	1.7	25
9	On the use of deep learning for lens design. , 2021, , .		3
10	Mixture-based Feature Space Learning for Few-shot Image Classification. , 2021, , .		32
11	Window View Access in Architecture: Spatial Visualization and Probability Evaluations Based on Human Vision Fields and Biophilia. Buildings, 2021, 11, 627.	1.4	6
12	Input Dropout for Spatially Aligned Modalities. , 2020, , .		4
13	Learning Physics-Guided Face Relighting Under Directional Light. , 2020, , .		61
14	Human-centric lighting performance of shading panels in architecture: A benchmarking study with lab scale physical models under real skies. Solar Energy, 2020, 204, 354-368.	2.9	16
15	Spatial representations of melanopic light in architecture. Architectural Science Review, 2020, , 1-12.	1.1	1
16	Associative Alignment for Few-Shot Image Classification. Lecture Notes in Computer Science, 2020, , 18-35.	1.0	54
17	Evaluation of deep learning-generated lens design starting points. , 2020, , .		0
18	RGB-D-E: Event Camera Calibration for Fast 6-DOF object Tracking. , 2020, , .		7

#	ARTICLE	IF	CITATIONS
19	Hyperparameter optimization in black-box image processing using differentiable proxies. ACM Transactions on Graphics, 2019, 38, 1-14.	4.9	36
20	Depth texture synthesis for high-resolution reconstruction of large scenes. Machine Vision and Applications, 2019, 30, 795-806.	1.7	1
21	A photobiological approach to biophilic design in extreme climates. Building and Environment, 2019, 154, 211-226.	3.0	30
22	Deep Parametric Indoor Lighting Estimation. , 2019, , .		75
23	All-Weather Deep Outdoor Lighting Estimation. , 2019, , .		55
24	Physics-Based Rendering for Improving Robustness to Rain. , 2019, , .		63
25	Fast Spatially-Varying Indoor Lighting Estimation. , 2019, , .		80
26	Deep Sky Modeling for Single Image Outdoor Lighting Estimation. , 2019, , .		74
27	Introducing a dynamic deep neural network to infer lens design starting points. , 2019, , .		2
28	Extrapolating from lens design databases using deep learning. Optics Express, 2019, 27, 28279.	1.7	26
29	From Faces to Outdoor Light Probes. Computer Graphics Forum, 2018, 37, 51-61.	1.8	36
30	Deep Learning for Augmented Reality. , 2018, , .		10
31	A Perceptual Measure for Deep Single Image Camera Calibration. , 2018, , .		61
32	Learning to Estimate Indoor Lighting from 3D Objects. , 2018, , .		42
33	Deep photovoltaic nowcasting. Solar Energy, 2018, 176, 267-276.	2.9	125
34	A Framework for Evaluating 6-DOF Object Trackers. Lecture Notes in Computer Science, 2018, , 608-623.	1.0	20
35	Domain Adaptation Through Synthesis for Unsupervised Person Re-identification. Lecture Notes in Computer Science, 2018, , 193-209.	1.0	43
36	Toward Training a Deep Neural Network to Optimize Lens Designs. , 2018, , .		1

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37	Deep 6-DOF Tracking. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 2410-2418.	2.9	70
38	Deep Uncertainty Interpretation in Dyadic Human Activity Prediction. , 2017, , .		0
39	Learning High Dynamic Range from Outdoor Panoramas. , 2017, , .		77
40	Learning to predict indoor illumination from a single image. ACM Transactions on Graphics, 2017, 36, 1-14.	4.9	158
41	Deep outdoor illumination estimation. , 2017, , .		142
42	Real-Time High Resolution 3D Data on the HoloLens. , 2016, , .		46
43	Depth Texture Synthesis for Realistic Architectural Modeling. , 2016, , .		1
44	HDR image noise estimation for denoising tone mapped images. , 2015, , .		5
45	x-Hour Outdoor Photometric Stereo. , 2015, , .		8
46	What Is a Good Day for Outdoor Photometric Stereo?. , 2015, , .		9
47	Contrast-Use Metrics for Tone Mapping Images. , 2015, , .		4
48	The Perception of Lighting Inconsistencies in Composite Outdoor Scenes. ACM Transactions on Applied Perception, 2015, 12, 1-18.	1.2	7
49	Lighting Estimation in Outdoor Image Collections. , 2014, , .		41
50	Estimating the Natural Illumination Conditions from a Single Outdoor Image. International Journal of Computer Vision, 2012, 98, 123-145.	10.9	107
51	What Do the Sun and the Sky Tell Us About the Camera?. International Journal of Computer Vision, 2010, 88, 24-51.	10.9	67
52	SCALE SELECTION FOR GEOMETRIC FITTING IN NOISY POINT CLOUDS. International Journal of Computational Geometry and Applications, 2010, 20, 543-575.	0.3	11
53	Detecting Ground Shadows in Outdoor Consumer Photographs. Lecture Notes in Computer Science, 2010, , 322-335.	1.0	109
54	Webcam clip art. ACM Transactions on Graphics, 2009, 28, 1-10.	4.9	49

#	ARTICLE	IF	CITATIONS
55	Webcam clip art. , 2009, , .		11
56	Estimating natural illumination from a single outdoor image. , 2009, , .		96
57	Image-based Shaving. Computer Graphics Forum, 2008, 27, 627-635.	1.8	32
58	What Does the Sky Tell Us about the Camera?. Lecture Notes in Computer Science, 2008, , 354-367.	1.0	24
59	Data Structures for Efficient Dynamic Processing in 3-D. International Journal of Robotics Research, 2007, 26, 777-796.	5.8	18
60	Photo clip art. , 2007, , .		68
61	Photo clip art. ACM Transactions on Graphics, 2007, 26, 3.	4.9	207
62	Using Color Compatibility for Assessing Image Realism. , 2007, , .		87
63	Potential negative obstacle detection by occlusion labeling. , 2007, , .		31
64	Natural terrain classification using three-dimensional ladar data for ground robot mobility. Journal of Field Robotics, 2006, 23, 839-861.	3.2	376
65	Scale Selection for the Analysis of Point-Sampled Curves. , 2006, , .		13
66	Data Structure for Efficient Processing in 3-D. , 0, , .		7