# Jean-FranÃ§ois Lalonde

List of Publications by Year
in descending order



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|---|---|---|---|
| 36 papers | 1,923 citations | 566801 15 h-index | 642321 23 g-index |
| 36 all docs | 36 docs citations | 36 times ranked | 1140 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 faÃ§ades 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 | Biophilic photobiological adaptive envelopes for sub-Arctic buildings: Exploring impacts of window sizes and shading panelsâ€™ color, reflectance, and configuration. Solar Energy, 2021, 220, 802-827. | 2.9 | 11 |
| 6 | Differentiable Compound Optics and Processing Pipeline Optimization for End-to-end Camera Design. ACM Transactions on Graphics, 2021, 40, 1-19. | 4.9 | 49 |
| 7 | Deep learning-enabled framework for automatic lens design starting point generation. Optics Express, 2021, 29, 3841. | 1.7 | 25 |
| 8 | On the use of deep learning for lens design. , 2021, , . | | 3 |
| 9 | Window View Access in Architecture: Spatial Visualization and Probability Evaluations Based on Human Vision Fields and Biophilia. Buildings, 2021, 11, 627. | 1.4 | 6 |
| 10 | 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 |
| 11 | RGB-D-E: Event Camera Calibration for Fast 6-DOF object Tracking. , 2020, , . | | 7 |
| 12 | Depth texture synthesis for high-resolution reconstruction of large scenes. Machine Vision and Applications, 2019, 30, 795-806. | 1.7 | 1 |
| 13 | A photobiological approach to biophilic design in extreme climates. Building and Environment, 2019, 154, 211-226. | 3.0 | 30 |
| 14 | All-Weather Deep Outdoor Lighting Estimation. , 2019, , . | | 55 |
| 15 | Physics-Based Rendering for Improving Robustness to Rain. , 2019, , . | | 63 |
| 16 | Deep Sky Modeling for Single Image Outdoor Lighting Estimation. , 2019, , . | | 74 |
| 17 | Introducing a dynamic deep neural network to infer lens design starting points. , 2019, , . | | 2 |
| 18 | Extrapolating from lens design databases using deep learning. Optics Express, 2019, 27, 28279. | 1.7 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Learning to Estimate Indoor Lighting from 3D Objects. , 2018, , . | | 42 |
| 20 | A Framework for Evaluating 6-DOF Object Trackers. Lecture Notes in Computer Science, 2018, , 608-623. | 1.0 | 20 |
| 21 | Deep 6-DOF Tracking. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 2410-2418. | 2.9 | 70 |
| 22 | Learning High Dynamic Range from Outdoor Panoramas. , 2017, , . | | 77 |
| 23 | Learning to predict indoor illumination from a single image. ACM Transactions on Graphics, 2017, 36, 1-14. | 4.9 | 158 |
| 24 | Deep outdoor illumination estimation. , 2017, , . | | 142 |
| 25 | Depth Texture Synthesis for Realistic Architectural Modeling. , 2016, , . | | 1 |
| 26 | The Perception of Lighting Inconsistencies in Composite Outdoor Scenes. ACM Transactions on Applied Perception, 2015, 12, 1-18. | 1.2 | 7 |
| 27 | Lighting Estimation in Outdoor Image Collections. , 2014, , . | | 41 |
| 28 | Estimating the Natural Illumination Conditions from a Single Outdoor Image. International Journal of Computer Vision, 2012, 98, 123-145. | 10.9 | 107 |
| 29 | What Do the Sun and the Sky Tell Us About the Camera?. International Journal of Computer Vision, 2010, 88, 24-51. | 10.9 | 67 |
| 30 | SCALE SELECTION FOR GEOMETRIC FITTING IN NOISY POINT CLOUDS. International Journal of Computational Geometry and Applications, 2010, 20, 543-575. | 0.3 | 11 |
| 31 | Webcam clip art. ACM Transactions on Graphics, 2009, 28, 1-10. | 4.9 | 49 |
| 32 | What Does the Sky Tell Us about the Camera?. Lecture Notes in Computer Science, 2008, , 354-367. | 1.0 | 24 |
| 33 | Data Structures for Efficient Dynamic Processing in 3-D. International Journal of Robotics Research, 2007, 26, 777-796. | 5.8 | 18 |
| 34 | Photo clip art. , 2007, , . | | 68 |
| 35 | Photo clip art. ACM Transactions on Graphics, 2007, 26, 3. | 4.9 | 207 |
| 36 | Natural terrain classification using three-dimensional ladar data for ground robot mobility. Journal of Field Robotics, 2006, 23, 839-861. | 3.2 | 376 |