

# Lenny A Romero

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

121  
citations

1478505

6  
h-index

1372567

10  
g-index

36  
all docs

36  
docs citations

36  
times ranked

82  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid calibration procedure for fringe projection profilometry based on stereo vision and polynomial fitting. Applied Optics, 2020, 59, D163.	1.8	24
2	SPUD: simultaneous phase unwrapping and denoising algorithm for phase imaging. Applied Optics, 2020, 59, D81.	1.8	14
3	Method for large-scale structured-light system calibration. Optics Express, 2021, 29, 17316.	3.4	10
4	Double peacock eye optical element for extended focal depth imaging with ophthalmic applications. Journal of Biomedical Optics, 2012, 17, 046013.	2.6	9
5	Camera-Projector Calibration Methods with Compensation of Geometric Distortions in Fringe Projection Profilometry: A Comparative Study. Optica Pura Y Aplicada, 2018, 51, 1-10.	0.1	9
6	Robust automated reading of the skin prick test via 3D imaging and parametric surface fitting. PLoS ONE, 2019, 14, e0223623.	2.5	7
7	Programmable diffractive optical elements for extending the depth of focus in ophthalmic optics. Proceedings of SPIE, 2015, , .	0.8	5
8	Automated corneal endothelium image segmentation in the presence of cornea guttata via convolutional neural networks. , 2020, , .		5
9	Developing a Robust Acquisition System for Fringe Projection Profilometry. Journal of Physics: Conference Series, 2019, 1247, 012053.	0.4	4
10	What is the best triangulation approach for a structured light system?. , 2020, , .		4
11	A low-cost multi-modal medical imaging system with fringe projection profilometry and 3D freehand ultrasound. , 2020, , .		4
12	MarkerPose: Robust Real-time Planar Target Tracking for Accurate Stereo Pose Estimation. , 2021, , .		3
13	A Structure-from-Motion Pipeline for Topographic Reconstructions Using Unmanned Aerial Vehicles and Open Source Software. Communications in Computer and Information Science, 2018, , 213-225.	0.5	3
14	Hybrid calibration method for improving 3D measurement accuracy of structured light systems. , 2020, , .		3
15	Fringe Quality Map for Fringe Projection Profilometry in LabVIEW. Optica Pura Y Aplicada, 2018, 51, 1-8.	0.1	3
16	Optical implementation of multifocal programmable lens with single and multiple axes. Journal of Physics: Conference Series, 2011, 274, 012050.	0.4	2
17	A Structure-from-Motion Pipeline for Generating Digital Elevation Models for Surface-Runoff Analysis. Journal of Physics: Conference Series, 2019, 1247, 012039.	0.4	2
18	A flexible and simplified calibration procedure for fringe projection profilometry. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
19	Trade-Off Asymmetric Profile for Extended-Depth-of-Focus Ocular Lens. Photonics, 2022, 9, 119.	2.0	2
20	A vision-based system for the dynamic measurement of in-plane displacements. , 2014, , .		1
21	Background intensity removal in structured light three-dimensional reconstruction. , 2016, , .		1
22	Noise-Robust Processing of Phase Dislocations using Combined Unwrapping and Sparse Inpainting with Dictionary Learning. , 2019, , .		1
23	Wide-field 3D imaging with an LED pattern projector for accurate skin feature measurements via Fourier transform profilometry. , 2019, , .		1
24	Programmable Diffractive Optical Elements with Applicability in Ophthalmic Optics. Optica Pura Y Aplicada, 2017, 50, 75-91.	0.1	1
25	Evaluating the Influence of Camera and Projector Lens Distortion in 3D Reconstruction Quality for Fringe Projection Profilometry. , 2018, , .		1
26	<title>Quantitative evaluation of blisters in polymer-coated steels by three-dimensional optical reconstruction</title>. , 2004, , .		0
27	Extended focal depth imaging using single and double peacock eye phase diffractive elements. Proceedings of SPIE, 2012, , .	0.8	0
28	Ophthalmic compensation of visual ametropia based on a programmable diffractive lens. , 2013, , .		0
29	Programmable diffractive lens for ophthalmic application. Optical Engineering, 2014, 53, 061709.	1.0	0
30	Skin color correction via convolutional neural networks in 3D fringe projection profilometry. , 2021, , .		0
31	Background Intensity Removal in Fourier Transform Profilometry: A Comparative Study. , 2016, , .		0
32	A Particle Swarm Optimization Approach to Log-Gabor Filtering in Fourier Transform Profilometry. , 2018, , .		0
33	An Experimental Study on Deformation Analysis of an Indented Pipe via Fringe Projection Profilometry and Digital Image Correlation. , 2018, , .		0
34	Toward an automatic 3D measurement of skin wheals from skin prick tests. , 2019, , .		0
35	Toward the generation of reproducible synthetic surface data in optical metrology. , 2020, , .		0
36	Desarrollo e implementaci3n de un perfil3metro 3ptico por triangulaci3n l3ser. , 2020, , .		0