Beiwen Li

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1499991/publications.pdf

Version: 2024-02-01

60 papers	1,393 citations	361413 20 h-index	345221 36 g-index
62 all docs	62 docs citations	62 times ranked	622 citing authors

#	Article	IF	Citations
1	Novel calibration method for structured-light system with an out-of-focus projector. Applied Optics, 2014, 53, 3415.	1.8	154
2	Some recent advances on superfast 3D shape measurement with digital binary defocusing techniques. Optics and Lasers in Engineering, 2014, 54, 236-246.	3.8	123
3	Fringe projection profilometry by conducting deep learning from its digital twin. Optics Express, 2020, 28, 36568.	3.4	75
4	Flexible calibration method for microscopic structured light system using telecentric lens. Optics Express, 2015, 23, 25795.	3.4	74
5	High-accuracy, high-speed 3D structured light imaging techniques and potential applications to intelligent robotics. International Journal of Intelligent Robotics and Applications, 2017, 1, 86-103.	2.8	66
6	Single-shot absolute 3D shape measurement with Fourier transform profilometry. Applied Optics, 2016, 55, 5219.	2.1	59
7	High-quality fringe pattern generation using binary pattern optimization through symmetry and periodicity. Optics and Lasers in Engineering, 2014, 52, 195-200.	3.8	53
8	Motion-induced error reduction by combining Fourier transform profilometry with phase-shifting profilometry. Optics Express, 2016, 24, 23289.	3.4	53
9	Microscopic structured light 3D profilometry: Binary defocusing technique vs. sinusoidal fringe projection. Optics and Lasers in Engineering, 2017, 96, 117-123.	3.8	51
10	Intensity-optimized dithering technique for three-dimensional shape measurement with projector defocusing. Optics and Lasers in Engineering, 2014, 53, 79-85.	3.8	46
11	Pixel-by-pixel absolute phase retrieval using three phase-shifted fringe patterns without markers. Optics and Lasers in Engineering, 2017, 91, 232-241.	3.8	45
12	Motion induced error reduction methods for phase shifting profilometry: A review. Optics and Lasers in Engineering, 2021, 141, 106573.	3.8	45
13	Structured light system calibration method with optimal fringe angle. Applied Optics, 2014, 53, 7942.	2.1	43
14	Method for large-range structured light system calibration. Applied Optics, 2016, 55, 9563.	2.1	42
15	High-dynamic-range 3D shape measurement utilizing the transitioning state of digital micromirror device. Optics and Lasers in Engineering, 2018, 107, 176-181.	3.8	40
16	Superfast high-resolution absolute 3D recovery of a stabilized flapping flight process. Optics Express, 2017, 25, 27270.	3.4	36
17	Pixel-by-pixel absolute three-dimensional shape measurement with modified Fourier transform profilometry. Applied Optics, 2017, 56, 1472.	2.1	30
18	Correlation approach for quality assurance of additive manufactured parts based on optical metrology. Journal of Manufacturing Processes, 2020, 53, 310-317.	5.9	30

#	Article	IF	Citations
19	Structured light system calibration with unidirectional fringe patterns. Optics and Lasers in Engineering, 2018, 106, 86-93.	3.8	24
20	Effects of Nozzle Geometries on 3D Printing of Clay Constructs: Quantifying Contour Deviation and Mechanical Properties. Procedia Manufacturing, 2020, 48, 678-683.	1.9	22
21	Similarity evaluation of topography measurement results by different optical metrology technologies for additive manufactured parts. Optics and Lasers in Engineering, 2020, 126, 105920.	3.8	21
22	Flexible real-time natural 2D color and 3D shape measurement. Optics Express, 2013, 21, 16736.	3.4	19
23	Real-time high-dynamic-range fringe acquisition for 3D shape measurement with a RGB camera. Measurement Science and Technology, 2019, 30, 075202.	2.6	19
24	A convenient 3D reconstruction model based on parallel-axis structured light system. Optics and Lasers in Engineering, 2021, 138, 106366.	3.8	18
25	High-speed high-accuracy three-dimensional shape measurement using digital binary defocusing method versus sinusoidal method. Optical Engineering, 2017, 56, 074102.	1.0	17
26	Novel method for measuring a dense 3D strain map of robotic flapping wings. Measurement Science and Technology, 2018, 29, 045402.	2.6	17
27	Quantifying quality of 3D printed clay objects using a 3D structured light scanning system. Additive Manufacturing, 2020, 32, 100987.	3.0	16
28	Motion-induced error reduction for binary defocusing profilometry via additional temporal sampling. Optics Express, 2019, 27, 23948.	3.4	14
29	Modified three-wavelength phase unwrapping algorithm for dynamic three-dimensional shape measurement. Optics Communications, 2021, 480, 126409.	2.1	13
30	Computer-aided-design-model-assisted absolute three-dimensional shape measurement. Applied Optics, 2017, 56, 6770.	1.8	12
31	Binarized dual phase-shifting method for high-quality 3D shape measurement. Applied Optics, 2018, 57, 6632.	1.8	12
32	PMENet: phase map enhancement for Fourier transform profilometry using deep learning. Measurement Science and Technology, 2021, 32, 105001.	2.6	12
33	4D line-scan hyperspectral imaging. Optics Express, 2021, 29, 34835.	3.4	10
34	In situ monitoring of direct energy deposition via structured light system and its application in remanufacturing industry. International Journal of Advanced Manufacturing Technology, 2021, 116, 959-974.	3.0	9
35	Active shape from projection defocus profilometry. Optics and Lasers in Engineering, 2020, 134, 106277.	3.8	8
36	Similarity evaluation of 3D surface topography measurements. Measurement Science and Technology, 2021, 32, 125003.	2.6	6

#	Article	IF	Citations
37	High-speed 3D shape measurement with fiber interference. Proceedings of SPIE, 2014, , .	0.8	5
38	Comparison between LCOS projector and DLP projector in generating digital sinusoidal fringe patterns. Proceedings of SPIE, 2013, , .	0.8	3
39	High-resolution, real-time to superfast 3D imaging techniques. , 2016, , .		3
40	Surface extraction from micro-computed tomography data for additive manufacturing. Procedia Manufacturing, 2021, 53, 568-575.	1.9	3
41	In-situ monitoring of Direct Energy Deposition via Structured Light System and its application in remanufacturing industry. Procedia Manufacturing, 2021, 53, 64-71.	1.9	3
42	Similarity quantification of 3D surface topography measurements. Measurement: Journal of the International Measurement Confederation, 2021, 186, 110207.	5.0	3
43	Improve dithering technique for 3D shape measurement: phase vs intensity optimization. , 2013, , .		2
44	High-speed 3D imaging using digital binary defocusing method vs sinusoidal method. , 2017, , .		2
45	Surface Roughness Measurement of Additive Manufactured Parts Using Focus Variation Microscopy and Structured Light System. , 2019, , .		2
46	Similarity evaluation of 3D topological measurement results using statistical methods. , 2020, , .		2
47	Calibration method for spinning fringe projection: proof-of-concept. Optical Engineering, 2018, 57, 1.	1.0	1
48	Uniaxial High-Speed Microscale Three-Dimensional Surface Topographical Measurements Using Fringe Projection. Journal of Micro and Nano-Manufacturing, 2020, 8, .	0.7	1
49	Comparing digital-light-processing (DLP) and liquid-crystal-on-silicon (LCoS) technologies for high-quality 3D shape measurement. Proceedings of SPIE, 2014, , .	0.8	0
50	Comparing digital-light-processing (DLP) and liquid-crystal-display(LCD) projection technologies for high-quality 3D shape measurement. Proceedings of SPIE, 2014, , .	0.8	0
51	Motion artifact reduction using hybrid Fourier transform with phase-shifting methods. , 2016, , .		0
52	Superfast 3D shape measurement of a flapping flight process with motion based segmentation. , 2018, , .		0
53	Superfast, high-resolution dynamic 3D strain measurement of robotic flapping wings. , 2018, , .		0
54	High-resolution 3D shape deformation, displacement, and strain measurement for robotic flapping wings. , 2018, , .		0

#	Article	IF	Citations
55	High-speed high dynamic range 3D shape measurement with digital micro-mirror device. , 2019, , .		0
56	Motion induced error compensation method for digital fringe projection system. , 2019, , .		0
57	High dynamic range 3D shape measurement based on multispectral imaging. , 2019, , .		0
58	Motion-induced error reduction for phase shifting profilometry using double-shot-in-single-illumination technique. , 2019, , .		0
59	Real-time high dynamic range 3D scanning with RGB camera. , 2019, , .		0
60	Improved three-dimensional reconstruction model based on coaxial structured light system. , 2020, , .		0