

Feng Gao

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

1,471
citations

304368

22
h-index

329751

37
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66
all docs

66
docs citations

66
times ranked

761
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of measurement accuracy of discontinuous specular objects with stereo vision deflectometer. Measurement: Journal of the International Measurement Confederation, 2022, 188, 110570.	2.5	8
2	3D Reconstruction of High Reflective Welding Surface Based on Binocular Structured Light Stereo Vision. Machines, 2022, 10, 159.	1.2	12
3	Segmentation phase measuring deflectometry for measuring structured specular surfaces. International Journal of Advanced Manufacturing Technology, 2022, 119, 2271-2283.	1.5	8
4	Near optical coaxial phase measuring deflectometry for measuring structured specular surfaces. Optics Express, 2022, 30, 17554.	1.7	5
5	B-spline surface based 3D reconstruction method for deflectometry. Optics Express, 2022, 30, 28207.	1.7	5
6	High-accuracy simultaneous measurement of surface profile and film thickness using line-field white-light dispersive interferometer. Optics and Lasers in Engineering, 2021, 137, 106388.	2.0	13
7	Robust incident angle calibration of angle-resolved ellipsometry for thin film measurement. Applied Optics, 2021, 60, 3971.	0.9	11
8	3D Measurement of Structured Specular Surfaces Using Stereo Direct Phase Measurement Deflectometry. Machines, 2021, 9, 170.	1.2	10
9	High-dynamic-range 3D measurement for E-beam fusion additive manufacturing based on SVM intelligent fringe projection system. Surface Topography: Metrology and Properties, 2021, 9, 034002.	0.9	7
10	A Simple Calibration Method for a Fringe Projection System Embedded within an Additive Manufacturing Machine. Machines, 2021, 9, 200.	1.2	4
11	On-Machine Calibration Method for <i>In Situ</i> Stereo Deflectometry System. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	2.4	2
12	In-situ areal inspection of powder bed for electron beam fusion system based on fringe projection profilometry. Additive Manufacturing, 2020, 31, 100940.	1.7	27
13	Multi-scale measurement of high-reflective surfaces by integrating near-field photometric stereo with touch trigger probe. CIRP Annals - Manufacturing Technology, 2020, 69, 489-492.	1.7	7
14	Accuracy improvement of a white-light spectral interferometer using a line-by-line spectral calibration method. Surface Topography: Metrology and Properties, 2020, 8, 025028.	0.9	2
15	Application of Clustering Filter for Noise and Outlier Suppression in Optical Measurement of Structured Surfaces. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6509-6517.	2.4	16
16	A brief review of the technological advancements of phase measuring deflectometry. PhotonIX, 2020, 1, .	5.5	41
17	State-of-the-art active optical techniques for three-dimensional surface metrology: a review [Invited]. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, B60.	0.8	125
18	Analysis of the synchronous phase-shifting method in a white-light spectral interferometer. Applied Optics, 2020, 59, 2983.	0.9	3

#	ARTICLE	IF	CITATIONS
19	Robustness improvement for the calibration of stereo deflectometry based on a search algorithm. , 2020, , .		0
20	A method for inspecting near-right-angle V-groove surfaces based on dual-probe wavelength scanning interferometry. International Journal of Advanced Manufacturing Technology, 2019, 104, 1-7.	1.5	37
21	Rapid measurement of large step heights using a microscopic white-light spectral interferometer. Surface Topography: Metrology and Properties, 2019, 7, 025024.	0.9	3
22	A calibration method for non-overlapping cameras based on mirrored absolute phase target. International Journal of Advanced Manufacturing Technology, 2019, 104, 9-15.	1.5	14
23	Single-shot 3D shape measurement of discontinuous objects based on a coaxial fringe projection system. Applied Optics, 2019, 58, A169.	0.9	40
24	Improved description of the signal formation in grating generated-optical coherence tomography. Optics Express, 2019, 27, 33999.	1.7	1
25	Calibration of an interferometric on-machine probing system on an ultra-precision turning machine. Measurement: Journal of the International Measurement Confederation, 2018, 118, 96-104.	2.5	37
26	A holistic calibration method with iterative distortion compensation for stereo deflectometry. Optics and Lasers in Engineering, 2018, 106, 111-118.	2.0	28
27	Performance analysis and evaluation of direct phase measuring deflectometry. Optics and Lasers in Engineering, 2018, 103, 24-33.	2.0	48
28	Performance Analysis and Evaluation of Geometric Parameters in Stereo Deflectometry. Engineering, 2018, 4, 806-815.	3.2	21
29	Enhancement of measurement accuracy of optical stereo deflectometry based on imaging model analysis. Optics and Lasers in Engineering, 2018, 111, 1-7.	2.0	21
30	Improvement of the fringe analysis algorithm for wavelength scanning interferometry based on filter parameter optimization. Applied Optics, 2018, 57, 2227.	0.9	9
31	3D shape measurement of discontinuous specular objects based on advanced PMD with bi-telecentric lens. Optics Express, 2018, 26, 1615.	1.7	33
32	Generic exponential fringe model for alleviating phase error in phase measuring profilometry. Optics and Lasers in Engineering, 2018, 110, 179-185.	2.0	37
33	Distance Calibration between Reference Plane and Screen in Direct Phase Measuring Deflectometry. Sensors, 2018, 18, 144.	2.1	9
34	Phase retrieval algorithm for line-scan dispersive interferometry. , 2018, , .		1
35	Single-shot RGB polarising interferometer. , 2018, , .		2
36	Full-field 3D shape measurement of discontinuous specular objects by direct phase measuring deflectometry. Scientific Reports, 2017, 7, 10293.	1.6	51

#	ARTICLE	IF	CITATIONS
37	Full-field 3D shape measurement of specular object having discontinuous surfaces. , 2017, , .		2
38	Surface topography acquisition method for double-sided near-right-angle structured surfaces based on dual-probe wavelength scanning interferometry. Optics Express, 2017, 25, 24148.	1.7	16
39	An Iterative Distortion Compensation Algorithm for Camera Calibration Based on Phase Target. Sensors, 2017, 17, 1188.	2.1	26
40	Three-Dimensional Shape Measurements of Specular Objects Using Phase-Measuring Deflectometry. Sensors, 2017, 17, 2835.	2.1	67
41	Full-Field Calibration of Color Camera Chromatic Aberration using Absolute Phase Maps. Sensors, 2017, 17, 1048.	2.1	9
42	Full-field 3D shape measurement of specular surfaces by direct phase to depth relationship. Proceedings of SPIE, 2016, , .	0.8	6
43	Least-squares method for data reconstruction from gradient data in deflectometry. Applied Optics, 2016, 55, 6052.	2.1	37
44	Full-field calibration and compensation of lateral chromatic aberration based on unwrapped phase. , 2016, , .		0
45	In-situ defect detection systems for R2R flexible PV barrier films. Proceedings of SPIE, 2015, , .	0.8	0
46	Effect of Ag Thin Films on the Photoluminescence of ZnO Films. Journal of Nanoscience and Nanotechnology, 2015, 15, 3796-3801.	0.9	0
47	Improvement of high-order least-squares integration method for stereo deflectometry. Applied Optics, 2015, 54, 10249.	2.1	34
48	Iterative optimization calibration method for stereo deflectometry. Optics Express, 2015, 23, 22060.	1.7	58
49	Accurate projector calibration method by using an optical coaxial camera. Applied Optics, 2015, 54, 789.	0.9	31
50	Implementation of in Process Surface Metrology for R2R Flexible PV Barrier Films. International Journal of Automation Technology, 2015, 9, 312-321.	0.5	15
51	Calibration of Double Priority Camera Based on Circle Planar Target. International Journal of Automation Technology, 2015, 9, 322-329.	0.5	0
52	Absolute height measurement of specular surfaces with modified active fringe reflection photogrammetry. Proceedings of SPIE, 2014, , .	0.8	0
53	Projector calibration method based on optical coaxial camera. , 2014, , .		0
54	On-line surface inspection using cylindrical lens-based spectral domain low-coherence interferometry. Applied Optics, 2014, 53, 5510.	0.9	20

#	ARTICLE	IF	CITATIONS
55	The research of 3D small-field imaging system based on fringe projection technique. , 2014, , .		1
56	Accelerated Surface Measurement Using Wavelength Scanning Interferometer with Compensation of Environmental Noise. Procedia CIRP, 2013, 10, 70-76.	1.0	16
57	A simple, flexible and automatic 3D calibration method for a phase calculation-based fringe projection imaging system. Optics Express, 2013, 21, 12218.	1.7	96
58	Comparison study of algorithms and accuracy in the wavelength scanning interferometry. Applied Optics, 2012, 51, 8854.	0.9	22
59	Surface and thickness measurement of a transparent film using wavelength scanning interferometry. Optics Express, 2012, 20, 21450.	1.7	58
60	Comparison of fast Fourier transform and convolution in wavelength scanning interferometry. Proceedings of SPIE, 2011, , .	0.8	5
61	Fast surface measurement using wavelength scanning interferometry with compensation of environmental noise. Applied Optics, 2010, 49, 2903.	2.1	84
62	Surface measurement errors using commercial scanning white light interferometers. Measurement Science and Technology, 2008, 19, 015303.	1.4	143
63	A novel multi-function tribological probe microscope for mapping surface properties. Measurement Science and Technology, 2004, 15, 91-102.	1.4	23
64	Calibration of transfer standards for SPM. Microelectronic Engineering, 1998, 41-42, 615-618.	1.1	0
65	In-Process Fast Surface Measurement Using Wavelength Scanning Interferometry. Advanced Materials Research, 0, 622-623, 357-360.	0.3	0
66	Interferometry for Online/In-Process Surface Inspection. , 0, , .		4