

# Lyndon N Smith

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

1,352  
citations

361045

20  
h-index

377514

34  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1037  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diabetes mellitus prediction and diagnosis from a data preprocessing and machine learning perspective. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 220, 106773.	2.6	50
2	Towards Facial Expression Recognition for On-Farm Welfare Assessment in Pigs. <i>Agriculture (Switzerland)</i> , 2021, 11, 847.	1.4	10
3	The quiet revolution in machine vision - a state-of-the-art survey paper, including historical review, perspectives, and future directions. <i>Computers in Industry</i> , 2021, 130, 103472.	5.7	79
4	Precision Fibre Angle Inspection for Carbon Fibre Composite Structures Using Polarisation Vision. <i>Electronics (Switzerland)</i> , 2021, 10, 2765.	1.8	8
5	A computer vision approach to improving cattle digestive health by the monitoring of faecal samples. <i>Scientific Reports</i> , 2020, 10, 17557.	1.6	6
6	A photometric stereo-based 3D imaging system using computer vision and deep learning for tracking plant growth. <i>GigaScience</i> , 2019, 8, .	3.3	62
7	Weed classification in grasslands using convolutional neural networks. , 2019, , .		11
8	Visual features based boosted classification of weeds for real-time selective herbicide sprayer systems. <i>Computers in Industry</i> , 2018, 98, 23-33.	5.7	53
9	Innovative 3D and 2D machine vision methods for analysis of plants and crops in the field. <i>Computers in Industry</i> , 2018, 97, 122-131.	5.7	28
10	Towards on-farm pig face recognition using convolutional neural networks. <i>Computers in Industry</i> , 2018, 98, 145-152.	5.7	203
11	Photometric stereo for three-dimensional leaf venation extraction. <i>Computers in Industry</i> , 2018, 98, 56-67.	5.7	13
12	Early and non-intrusive lameness detection in dairy cows using 3-dimensional video. <i>Biosystems Engineering</i> , 2017, 153, 63-69.	1.9	73
13	Gender recognition from facial images: two or three dimensions?. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, 333.	0.8	8
14	Eye center localization and gaze gesture recognition for human-computer interaction. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, 314.	0.8	29
15	Combination of 3D skin surface texture features and 2D ABCD features for improved melanoma diagnosis. <i>Medical and Biological Engineering and Computing</i> , 2015, 53, 961-974.	1.6	11
16	3D reconstruction of concave surfaces using polarisation imaging. <i>Journal of Modern Optics</i> , 2015, 62, 927-932.	0.6	5
17	An improved photometric stereo through distance estimation and light vector optimization from diffused maxima region. <i>Pattern Recognition Letters</i> , 2014, 50, 15-22.	2.6	18
18	Real-time recovery of moving 3D faces for emerging applications. <i>Computers in Industry</i> , 2013, 64, 1390-1398.	5.7	6

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19	Face Recognition and Verification Using Photometric Stereo: The Photoface Database and a Comprehensive Evaluation. IEEE Transactions on Information Forensics and Security, 2013, 8, 121-135.	4.5	36
20	In vivo measurement of skin microrelief using photometric stereo in the presence of interreflections. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 278.	0.8	13
21	Combinatorial photometric stereo and its application in 3D modeling of melanoma. Machine Vision and Applications, 2012, 23, 1029-1045.	1.7	4
22	Dynamic deflectometry: A novel approach for the on-line reconstruction of specular freeform surfaces. Optics and Lasers in Engineering, 2012, 50, 1765-1778.	2.0	9
23	2.5D Facial Expression Recognition using Photometric Stereo and the Area Weighted Histogram of Shape Index. , 2012, , .		5
24	Distribution quantification on dermoscopy images for computer-assisted diagnosis of cutaneous melanomas. Medical and Biological Engineering and Computing, 2012, 50, 503-513.	1.6	29
25	Unsupervised sub-€segmentation for pigmented skin lesions. Skin Research and Technology, 2012, 18, 77-87.	0.8	14
26	A system for the dynamic industrial inspection of specular freeform surfaces. Optics and Lasers in Engineering, 2012, 50, 632-644.	2.0	15
27	Novel Photometric Stereo Based Pulmonary Function Testing. , 2012, , .		2
28	Enhanced 3D curvature pattern and melanoma diagnosis. Computerized Medical Imaging and Graphics, 2011, 35, 155-165.	3.5	5
29	The Photoface database. , 2011, , .		29
30	A computer assisted diagnosis system for malignant melanoma using 3D skin surface texture features and artificial neural network. International Journal of Modelling, Identification and Control, 2010, 9, 370.	0.2	10
31	A efficient and practical 3D face scanner using near infrared and visible photometric stereo. Procedia Computer Science, 2010, 2, 11-19.	1.2	3
32	3D face reconstructions from photometric stereo using near infrared and visible light. Computer Vision and Image Understanding, 2010, 114, 942-951.	3.0	53
33	Using 3D differential forms to characterize a pigmented lesion in vivo. Skin Research and Technology, 2010, 16, 77-84.	0.8	9
34	A new method describing border irregularity of pigmented lesions. Skin Research and Technology, 2010, 16, 66-76.	0.8	20
35	Obtaining malignant melanoma indicators through statistical analysis of 3D skin surface disruptions. Skin Research and Technology, 2009, 15, 262-270.	0.8	12
36	Segmentation of clinical lesion images using normalized cut. , 2009, , .		3

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37	Facial Geometry Estimation Using Photometric Stereo and Profile Views. Lecture Notes in Computer Science, 2009, , 1-11.	1.0	2
38	Facial Reconstruction and Alignment Using Photometric Stereo and Surface Fitting. Lecture Notes in Computer Science, 2009, , 88-95.	1.0	6
39	Concealed Object Perception and Recognition Using a Photometric Stereo Strategy. Lecture Notes in Computer Science, 2009, , 445-455.	1.0	2
40	Utilisation of time-variant influence functions in the computer controlled polishing. Precision Engineering, 2008, 32, 47-54.	1.8	32
41	Mathematical modelling of influence functions in computer-controlled polishing: Part II. Applied Mathematical Modelling, 2008, 32, 2907-2924.	2.2	22
42	Mathematical modelling of influence functions in computer-controlled polishing: Part I. Applied Mathematical Modelling, 2008, 32, 2888-2906.	2.2	40
43	Reflectance of human skin using colour photometric stereo: with particular application to pigmented lesion analysis. Skin Research and Technology, 2008, 14, 173-179.	0.8	34
44	Forces acting between polishing tool and workpiece surface in magnetorheological finishing. Proceedings of SPIE, 2008, , .	0.8	11
45	Advanced techniques for computer-controlled polishing. , 2008, , .		5
46	Calculation of MRF influence functions. , 2007, , .		6
47	Lens production enhancement by adoption of artificial influence functions and a knowledge-based system in a magnetorheological finishing process. Proceedings of SPIE, 2007, , .	0.8	0
48	Computer vision applications “ Special issue. Image and Vision Computing, 2007, 25, 1035-1036.	2.7	0
49	Filter algorithm for influence functions in the computer controlled polishing of high-quality optical lenses. International Journal of Machine Tools and Manufacture, 2007, 47, 107-111.	6.2	21
50	Examining the uncertainty of the recovered surface normal in three light photometric stereo. Image and Vision Computing, 2007, 25, 1073-1079.	2.7	24
51	Object surface recovery using a multi-light photometric stereo technique for non-Lambertian surfaces subject to shadows and specularities. Image and Vision Computing, 2007, 25, 1050-1057.	2.7	72
52	Coherences between influence function size, polishing quality, and process time in magnetorheological finishing. , 2006, , .		8
53	Dynamic photometric stereo“a new technique for moving surface analysis. Image and Vision Computing, 2005, 23, 841-852.	2.7	24
54	Automatic machine vision calibration using statistical and neural network methods. Image and Vision Computing, 2005, 23, 887-899.	2.7	37

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55	Simulation of an optical-sensing technique for tracking surgical tools employed in computer-assisted interventions. IEEE Sensors Journal, 2005, 5, 1127-1131.	2.4	11
56	Dynamic Photometric Stereo. Lecture Notes in Computer Science, 2005, , 826-833.	1.0	1
57	Temporal stability and performance of MR polishing fluid. , 2004, , .		5
58	Prediction of MRF polishing by classification of the initial error with Zernike polynomials. , 2004, , .		4
59	Comparison of a new contact topographical measurement system for spherical and aspherical surfaces with interferometry. , 2004, , .		1
60	<title>Overview of passive and active vision techniques for hand-held 3D data acquisition</title>. , 2003, 4877, 16.		11
61	Seeing is believing in the machine vision age. Metal Powder Report, 2002, 57, 20-29.	0.3	1
62	<title>Vision system and three-dimensional modeling techniques for quantification of the morphology of irregular particles</title>. , 2000, 4197, 146.		0
63	Experimental Study and Neural Network Modeling of the Stability of Powder Injection Molding Feedstocks. Materials and Manufacturing Processes, 2000, 15, 419-438.	2.7	23