

Lewis D Griffin

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

2,143
citations

257450

24
h-index

265206

42
g-index

73
all docs

73
docs citations

73
times ranked

2788
citing authors

#	ARTICLE	IF	CITATIONS
1	Using Basic Image Features for Texture Classification. International Journal of Computer Vision, 2010, 88, 447-460.	15.6	167
2	Zen and the art of medical image registration: correspondence, homology, and quality. NeuroImage, 2003, 20, 1425-1437.	4.2	159
3	NMDA receptors regulate GABA _A receptor lateral mobility and clustering at inhibitory synapses through serine 327 on the $\beta 2$ subunit. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16679-16684.	7.1	132
4	Automated method for the rapid and precise estimation of adherent cell culture characteristics from phase contrast microscopy images. Biotechnology and Bioengineering, 2014, 111, 504-517.	3.3	125
5	Spatial normalization and averaging of diffusion tensor MRI data sets. NeuroImage, 2002, 17, 592-617.	4.2	96
6	The Intrinsic Geometry of the Cerebral Cortex. Journal of Theoretical Biology, 1994, 166, 261-273.	1.7	87
7	Polarized light imaging of white matter architecture. Microscopy Research and Technique, 2007, 70, 851-863.	2.2	75
8	Writer identification using oriented Basic Image Features and the Delta encoding. Pattern Recognition, 2014, 47, 2255-2265.	8.1	72
9	Neuronal activity mediated regulation of glutamate transporter GLT α 1 surface diffusion in rat astrocytes in dissociated and slice cultures. Glia, 2016, 64, 1252-1264.	4.9	66
10	Multiscale Histogram of Oriented Gradient Descriptors for Robust Character Recognition. , 2011, , .		60
11	Scale and segmentation of grey-level images using maximum gradient paths. Image and Vision Computing, 1992, 10, 389-402.	4.5	58
12	AI-enabled future crime. Crime Science, 2020, 9, .	2.8	58
13	Superficial and deep structure in linear diffusion scale space: isophotes, critical points and separatrices. Image and Vision Computing, 1995, 13, 543-557.	4.5	50
14	The Second Order Local-Image-Structure Solid. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1355-1366.	13.9	47
15	Feature-Based Image Analysis. International Journal of Computer Vision, 2003, 52, 73-95.	15.6	46
16	Detection of concealed cars in complex cargo X-ray imagery using Deep Learning. Journal of X-Ray Science and Technology, 2017, 25, 323-339.	1.0	41
17	Independent changes in female body shape with parity and age: A life-history approach to female adiposity. American Journal of Human Biology, 2010, 22, 456-462.	1.6	40
18	Automated X-ray image analysis for cargo security: Critical review and future promise. Journal of X-Ray Science and Technology, 2017, 25, 33-56.	1.0	36

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19	Scale-imprecision space. <i>Image and Vision Computing</i> , 1997, 15, 369-398.	4.5	35
20	Optimality of the basic colour categories for classification. <i>Journal of the Royal Society Interface</i> , 2006, 3, 71-85.	3.4	35
21	Mean, median and mode filtering of images. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2000, 456, 2995-3004.	2.1	31
22	“Unexpected Item in the Bagging Area” Anomaly Detection in X-Ray Security Images. <i>IEEE Transactions on Information Forensics and Security</i> , 2019, 14, 1539-1553.	6.9	31
23	Natural Image Character Recognition Using Oriented Basic Image Features. , 2011, , .		28
24	Automated and Online Characterization of Adherent Cell Culture Growth in a Microfabricated Bioreactor. <i>Journal of the Association for Laboratory Automation</i> , 2014, 19, 437-443.	2.8	25
25	Steady-state EB cap size fluctuations are determined by stochastic microtubule growth and maturation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3427-3432.	7.1	25
26	Microfabricated Modular Scale-Down Device for Regenerative Medicine Process Development. <i>PLoS ONE</i> , 2012, 7, e52246.	2.5	25
27	Machine Learning Based Localization and Classification with Atomic Magnetometers. <i>Physical Review Letters</i> , 2018, 120, 033204.	7.8	24
28	Improved segmentation of meteorite micro-CT images using local histograms. <i>Computers and Geosciences</i> , 2012, 39, 129-134.	4.2	23
29	Changing the HTS Paradigm: AI-Driven Iterative Screening for Hit Finding. <i>SLAS Discovery</i> , 2021, 26, 257-262.	2.7	21
30	Texture classification with a dictionary of basic image features. , 2008, , .		20
31	Basic Image Features (BIFs) Arising from Approximate Symmetry Type. <i>Lecture Notes in Computer Science</i> , 2009, , 343-355.	1.3	20
32	Symmetry Sensitivities of Derivative-of-Gaussian Filters. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010, 32, 1072-1083.	13.9	19
33	Natural image profiles are most likely to be step edges. <i>Vision Research</i> , 2004, 44, 407-421.	1.4	18
34	Important factors determining the nanoscale tracking precision of dynamic microtubule ends. <i>Journal of Microscopy</i> , 2016, 261, 67-78.	1.8	18
35	Similarity of psychological and physical colour space shown by symmetry analysis. <i>Color Research and Application</i> , 2001, 26, 151-157.	1.6	17
36	The effect of abnormal colour vision on the ability to identify and outline coloured clinical signs and to count stained bacilli in sputum. <i>Australasian journal of optometry</i> , The, 2005, 88, 376-381.	1.3	17

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37	Quantum dot conjugated nanobodies for multiplex imaging of protein dynamics at synapses. <i>Nanoscale</i> , 2018, 10, 10241-10249.	5.6	17
38	Segmentation of phase contrast microscopy images based on multi-scale local Basic Image Features histograms. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2017, 5, 359-367.	1.9	16
39	Partitive mixing of images: a tool for investigating pictorial perception. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1999, 16, 2825.	1.5	15
40	Performance of CIE94 for nonreference conditions. <i>Color Research and Application</i> , 2002, 27, 108-115.	1.6	15
41	Categorical colour geometry. <i>PLoS ONE</i> , 2019, 14, e0216296.	2.5	15
42	Automated detection of fluorescent cells in inâ€resin fluorescence sections for integrated light and electron microscopy. <i>Journal of Microscopy</i> , 2018, 271, 109-119.	1.8	14
43	Machine Learning of Raman Spectroscopy Data for Classifying Cancers: A Review of the Recent Literature. <i>Diagnostics</i> , 2022, 12, 1491.	2.6	14
44	Model-based recognition of anatomical objects from medical images. <i>Image and Vision Computing</i> , 1994, 12, 499-507.	4.5	13
45	Limits on transfer learning from photographic image data to X-ray threat detection. <i>Journal of X-Ray Science and Technology</i> , 2020, 27, 1007-1020.	1.0	13
46	A 3D fiber model of the human brainstem. <i>Computerized Medical Imaging and Graphics</i> , 2002, 26, 439-444.	5.8	12
47	Automated Texture Recognition of Quartz Sand Grains for Forensic Applications*. <i>Journal of Forensic Sciences</i> , 2012, 57, 1285-1289.	1.6	12
48	Automated detection of cars in transmission X-ray images of freight containers. , 2014, , .		12
49	Hypotheses for Image Features, Icons and Textons. <i>International Journal of Computer Vision</i> , 2006, 70, 213-230.	15.6	11
50	Texture-Based Estimation of Physical Characteristics of Sand Grains. , 2010, , .		11
51	Feature classes for 1D, 2nd order image structure arise from natural image maximum likelihood statistics. <i>Network: Computation in Neural Systems</i> , 2005, 16, 301-320.	3.6	10
52	Coherence of achromatic, primary and basic classes of colour categories. <i>Vision Research</i> , 2020, 175, 14-22.	1.4	10
53	Statistics and category systems for the shape index descriptor of local 2nd order natural image structure. <i>Image and Vision Computing</i> , 2009, 27, 771-781.	4.5	9
54	An absolute interval scale of order for point patterns. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140342.	3.4	9

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55	The Atlas Structure of Images. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 234-245.	13.9	8
56	Symmetries of 1-D Images. Journal of Mathematical Imaging and Vision, 2008, 31, 157-164.	1.3	7
57	Difference magnitude is not measured by discrimination steps for order of point patterns. Journal of Vision, 2016, 16, 2.	0.3	7
58	Reconciling the statistics of spectral reflectance and colour. PLoS ONE, 2019, 14, e0223069.	2.5	7
59	Mode Estimation Using Pessimistic Scale Space Tracking. Lecture Notes in Computer Science, 2003, , 266-280.	1.3	7
60	Novel image feature alphabets for object recognition. , 2008, , .		6
61	A Comparison of Thresholding Methods for Forensic Reconstruction Studies Using Fluorescent Powder Proxies for Trace Materials. Journal of Forensic Sciences, 2019, 64, 431-442.	1.6	5
62	Features in Scale Space: Progress on the 2D 2nd Order Jet. , 2001, , 51-62.		3
63	Measuring and correcting wobble in large-scale transmission radiography. Journal of X-Ray Science and Technology, 2017, 25, 57-77.	1.0	3
64	A spatial frequency spectral peakedness model predicts discrimination performance of regularity in dot patterns. Vision Research, 2018, 149, 102-114.	1.4	3
65	Distributional Learning of Appearance. PLoS ONE, 2013, 8, e58074.	2.5	3
66	Symmetries of 2-D Images: Cases without Periodic Translations. Journal of Mathematical Imaging and Vision, 2009, 34, 259-269.	1.3	2
67	Reduction of wobble artefacts in images from mobile transmission X-ray vehicle scanners. , 2014, , .		2
68	Transferring x-ray based automated threat detection between scanners with different energies and resolution. , 2017, , .		2
69	Characterizing Breast Phenotype with a Novel Measure of Fibroglandular Structure. Lecture Notes in Computer Science, 2012, , 181-188.	1.3	1
70	Conditional Adversarial Camera Model Anonymization. Lecture Notes in Computer Science, 2020, , 217-235.	1.3	1
71	Colour and spectral reflectance of stools from normal neonatal babies. Color Research and Application, 2015, 40, 585-591.	1.6	0