

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	Machine Learning of Raman Spectroscopy Data for Classifying Cancers: A Review of the Recent Literature. <i>Diagnostics</i> , 2022, 12, 1491.	2.6	14
2	Changing the HTS Paradigm: AI-Driven Iterative Screening for Hit Finding. <i>SLAS Discovery</i> , 2021, 26, 257-262.	2.7	21
3	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
4	Coherence of achromatic, primary and basic classes of colour categories. <i>Vision Research</i> , 2020, 175, 14-22.	1.4	10
5	AI-enabled future crime. <i>Crime Science</i> , 2020, 9, .	2.8	58
6	Conditional Adversarial Camera Model Anonymization. <i>Lecture Notes in Computer Science</i> , 2020, , 217-235.	1.3	1
7	Reconciling the statistics of spectral reflectance and colour. <i>PLoS ONE</i> , 2019, 14, e0223069.	2.5	7
8	Categorical colour geometry. <i>PLoS ONE</i> , 2019, 14, e0216296.	2.5	15
9	“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
10	A Comparison of Thresholding Methods for Forensic Reconstruction Studies Using Fluorescent Powder Proxies for Trace Materials. <i>Journal of Forensic Sciences</i> , 2019, 64, 431-442.	1.6	5
11	The Atlas Structure of Images. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2019, 41, 234-245.	13.9	8
12	Machine Learning Based Localization and Classification with Atomic Magnetometers. <i>Physical Review Letters</i> , 2018, 120, 033204.	7.8	24
13	Automated detection of fluorescent cells in resin fluorescence sections for integrated light and electron microscopy. <i>Journal of Microscopy</i> , 2018, 271, 109-119.	1.8	14
14	Quantum dot conjugated nanobodies for multiplex imaging of protein dynamics at synapses. <i>Nanoscale</i> , 2018, 10, 10241-10249.	5.6	17
15	A spatial frequency spectral peakedness model predicts discrimination performance of regularity in dot patterns. <i>Vision Research</i> , 2018, 149, 102-114.	1.4	3
16	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
17	Detection of concealed cars in complex cargo X-ray imagery using Deep Learning. <i>Journal of X-Ray Science and Technology</i> , 2017, 25, 323-339.	1.0	41
18	Automated X-ray image analysis for cargo security: Critical review and future promise. <i>Journal of X-Ray Science and Technology</i> , 2017, 25, 33-56.	1.0	36

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19	Steady-state EB cap size fluctuations are determined by stochastic microtubule growth and maturation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3427-3432.	7.1	25
20	Measuring and correcting wobble in large-scale transmission radiography. Journal of X-Ray Science and Technology, 2017, 25, 57-77.	1.0	3
21	Transferring x-ray based automated threat detection between scanners with different energies and resolution. , 2017, , .		2
22	Difference magnitude is not measured by discrimination steps for order of point patterns. Journal of Vision, 2016, 16, 2.	0.3	7
23	Important factors determining the nanoscale tracking precision of dynamic microtubule ends. Journal of Microscopy, 2016, 261, 67-78.	1.8	18
24	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
25	Colour and spectral reflectance of stools from normal neonatal babies. Color Research and Application, 2015, 40, 585-591.	1.6	0
26	Reduction of wobble artefacts in images from mobile transmission X-ray vehicle scanners. , 2014, , .		2
27	Writer identification using oriented Basic Image Features and the Delta encoding. Pattern Recognition, 2014, 47, 2255-2265.	8.1	72
28	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
29	Automated detection of cars in transmission X-ray images of freight containers. , 2014, , .		12
30	Automated and Online Characterization of Adherent Cell Culture Growth in a Microfabricated Bioreactor. Journal of the Association for Laboratory Automation, 2014, 19, 437-443.	2.8	25
31	An absolute interval scale of order for point patterns. Journal of the Royal Society Interface, 2014, 11, 20140342.	3.4	9
32	Distributional Learning of Appearance. PLoS ONE, 2013, 8, e58074.	2.5	3
33	Improved segmentation of meteorite micro-CT images using local histograms. Computers and Geosciences, 2012, 39, 129-134.	4.2	23
34	Automated Texture Recognition of Quartz Sand Grains for Forensic Applications*. Journal of Forensic Sciences, 2012, 57, 1285-1289.	1.6	12
35	Microfabricated Modular Scale-Down Device for Regenerative Medicine Process Development. PLoS ONE, 2012, 7, e52246.	2.5	25
36	Characterizing Breast Phenotype with a Novel Measure of Fibroglandular Structure. Lecture Notes in Computer Science, 2012, , 181-188.	1.3	1

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37	Natural Image Character Recognition Using Oriented Basic Image Features. , 2011, , .		28
38	Multiscale Histogram of Oriented Gradient Descriptors for Robust Character Recognition. , 2011, , .		60
39	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
40	Using Basic Image Features for Texture Classification. International Journal of Computer Vision, 2010, 88, 447-460.	15.6	167
41	NMDA receptors regulate GABA _A receptor lateral mobility and clustering at inhibitory synapses through serine 327 on the β 2 subunit. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16679-16684.	7.1	132
42	Symmetry Sensitivities of Derivative-of-Gaussian Filters. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1072-1083.	13.9	19
43	Texture-Based Estimation of Physical Characteristics of Sand Grains. , 2010, , .		11
44	Symmetries of 2-D Images: Cases without Periodic Translations. Journal of Mathematical Imaging and Vision, 2009, 34, 259-269.	1.3	2
45	Statistics and category systems for the shape index descriptor of local 2nd order natural image structure. Image and Vision Computing, 2009, 27, 771-781.	4.5	9
46	Basic Image Features (BIFs) Arising from Approximate Symmetry Type. Lecture Notes in Computer Science, 2009, , 343-355.	1.3	20
47	Symmetries of 1-D Images. Journal of Mathematical Imaging and Vision, 2008, 31, 157-164.	1.3	7
48	Texture classification with a dictionary of basic image features. , 2008, , .		20
49	Novel image feature alphabets for object recognition. , 2008, , .		6
50	The Second Order Local-Image-Structure Solid. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1355-1366.	13.9	47
51	Polarized light imaging of white matter architecture. Microscopy Research and Technique, 2007, 70, 851-863.	2.2	75
52	Optimality of the basic colour categories for classification. Journal of the Royal Society Interface, 2006, 3, 71-85.	3.4	35
53	Hypotheses for Image Features, Icons and Textons. International Journal of Computer Vision, 2006, 70, 213-230.	15.6	11
54	The effect of abnormal colour vision on the ability to identify and outline coloured clinical signs and to count stained bacilli in sputum. Australasian journal of optometry, The, 2005, 88, 376-381.	1.3	17

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55	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
56	Natural image profiles are most likely to be step edges. <i>Vision Research</i> , 2004, 44, 407-421.	1.4	18
57	Feature-Based Image Analysis. <i>International Journal of Computer Vision</i> , 2003, 52, 73-95.	15.6	46
58	Zen and the art of medical image registration: correspondence, homology, and quality. <i>NeuroImage</i> , 2003, 20, 1425-1437.	4.2	159
59	Mode Estimation Using Pessimistic Scale Space Tracking. <i>Lecture Notes in Computer Science</i> , 2003, , 266-280.	1.3	7
60	Performance of CIE94 for nonreference conditions. <i>Color Research and Application</i> , 2002, 27, 108-115.	1.6	15
61	A 3D fiber model of the human brainstem. <i>Computerized Medical Imaging and Graphics</i> , 2002, 26, 439-444.	5.8	12
62	Spatial normalization and averaging of diffusion tensor MRI data sets. <i>NeuroImage</i> , 2002, 17, 592-617.	4.2	96
63	Similarity of psychological and physical colour space shown by symmetry analysis. <i>Color Research and Application</i> , 2001, 26, 151-157.	1.6	17
64	Features in Scale Space: Progress on the 2D 2nd Order Jet. , 2001, , 51-62.		3
65	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
66	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
67	Scale-imprecision space. <i>Image and Vision Computing</i> , 1997, 15, 369-398.	4.5	35
68	Superficial and deep structure in linear diffusion scale space: isophotes, critical points and separatrices. <i>Image and Vision Computing</i> , 1995, 13, 543-557.	4.5	50
69	The Intrinsic Geometry of the Cerebral Cortex. <i>Journal of Theoretical Biology</i> , 1994, 166, 261-273.	1.7	87
70	Model-based recognition of anatomical objects from medical images. <i>Image and Vision Computing</i> , 1994, 12, 499-507.	4.5	13
71	Scale and segmentation of grey-level images using maximum gradient paths. <i>Image and Vision Computing</i> , 1992, 10, 389-402.	4.5	58