

Stephen J Mckenna

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

3,175
citations

430874

18
h-index

223800

46
g-index

95
all docs

95
docs citations

95
times ranked

2792
citing authors

#	ARTICLE	IF	CITATIONS
1	Egomap: Hierarchical First-Person Semantic Mapping. Lecture Notes in Computer Science, 2021, , 348-363.	1.3	0
2	Cam-softmax for discriminative deep feature learning. , 2021, , .		0
3	Unsupervised Representation Learning From Pathology Images With Multi-Directional Contrastive Predictive Coding. , 2021, , .		2
4	Robust Selective Classification of Skin Lesions with Asymmetric Costs. Lecture Notes in Computer Science, 2021, , 112-121.	1.3	1
5	Aerial Image Analysis Using Deep Learning for Electrical Overhead Line Network Asset Management. IEEE Access, 2021, 9, 146281-146295.	4.2	8
6	Predicting full-scale and verbal intelligence scores from functional Connectomic data in individuals with autism Spectrum disorder. Brain Imaging and Behavior, 2020, 14, 1769-1778.	2.1	19
7	Developing Electron Microscopy Tools for Profiling Plasma Lipoproteins Using Methyl Cellulose Embedment, Machine Learning and Immunodetection of Apolipoprotein B and Apolipoprotein(a). International Journal of Molecular Sciences, 2020, 21, 6373.	4.1	2
8	Automated Classification for Visual-Only Postmortem Inspection of Porcine Pathology. IEEE Transactions on Automation Science and Engineering, 2020, 17, 1005-1016.	5.2	9
9	Towards the Automatic Visual Monitoring of Electricity Pylons from Aerial Images. , 2020, , .		9
10	A multimodal approach to cardiovascular risk stratification in patients with type 2 diabetes incorporating retinal, genomic and clinical features. Scientific Reports, 2019, 9, 3591.	3.3	21
11	High-Throughput, Time-Resolved Mechanical Phenotyping of Prostate Cancer Cells. Scientific Reports, 2019, 9, 5742.	3.3	13
12	Active Learning for Patch-Based Digital Pathology Using Convolutional Neural Networks to Reduce Annotation Costs. Lecture Notes in Computer Science, 2019, , 20-27.	1.3	15
13	Structure Prediction for Gland Segmentation With Hand-Crafted and Deep Convolutional Features. IEEE Transactions on Medical Imaging, 2018, 37, 210-221.	8.9	36
14	Sequential Recognition of Manipulation Actions Using Discriminative Superpixel Group Mining. , 2018, , .		1
15	Multi-part segmentation for porcine offal inspection with auto-context and adaptive atlases. Pattern Recognition Letters, 2018, 112, 290-296.	4.2	4
16	Multimodal Egocentric Analysis of Focused Interactions. IEEE Access, 2018, 6, 37493-37505.	4.2	13
17	Multi-scale analysis of the surface morphology of colorectal polyps from optical tomography. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2017, 5, 318-328.	1.9	0
18	Boundary-Aware Fully Convolutional Network for Brain Tumor Segmentation. Lecture Notes in Computer Science, 2017, , 433-441.	1.3	52

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19	Retinal Biomarker Discovery for Dementia in an Elderly Diabetic Population. Lecture Notes in Computer Science, 2017, , 150-158.	1.3	1
20	Microfluidics-based, time-resolved mechanical phenotyping of cells using high-speed imaging. Proceedings of SPIE, 2017, , .	0.8	0
21	Recognising complex activities with histograms of relative tracklets. Computer Vision and Image Understanding, 2017, 154, 82-93.	4.7	11
22	Finding Time Together: Detection and Classification of Focused Interaction in Egocentric Video. , 2017, , .		3
23	High-throughput, imaging based mechanical phenotyping of prostate cancer cells. , 2017, , .		0
24	Multi-task Fully Convolutional Network for Brain Tumour Segmentation. Communications in Computer and Information Science, 2017, , 239-248.	0.5	14
25	Gland segmentation in colon histology images using hand-crafted features and convolutional neural networks. , 2016, , .		38
26	Weighted atlas auto-context with application to multiple organ segmentation. , 2016, , .		2
27	Local structure prediction for gland segmentation. , 2016, , .		6
28	First step for computer assisted evaluation of qualitative supersonic shear wave elastography characteristics in breast tissue. , 2016, , .		2
29	Segmentation of organs in pig offal using auto-context. , 2016, , .		2
30	An automated pattern recognition system for classifying indirect immunofluorescence images of HEp-2 cells and specimens. Pattern Recognition, 2016, 51, 12-26.	8.1	70
31	Abstract P5-07-15: Breast cancer estrogen receptor scoring in tissue microarrays: Specialist breast pathologist versus automation. , 2016, , .		0
32	Hydrodynamic stretching for prostate cancer detection. , 2015, , .		1
33	Tumor localization in tissue microarrays using rotation invariant superpixel pyramids. , 2015, , .		6
34	Comparing computer-generated and pathologist-generated tumour segmentations for immunohistochemical scoring of breast tissue microarrays. British Journal of Cancer, 2015, 113, 1075-1080.	6.4	33
35	Discriminating dysplasia: Optical tomographic texture analysis of colorectal polyps. Medical Image Analysis, 2015, 26, 57-69.	11.6	10
36	HEp-2 Cell Classification Using Multi-resolution Local Patterns and Ensemble SVMs. , 2014, , .		22

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37	Hep-2 Specimen Classification Using Multi-resolution Local Patterns and SVM. , 2014, , .		6
38	Queryâ€dependent metric learning for adaptive, contentâ€based image browsing and retrieval. IET Image Processing, 2014, 8, 610-618.	2.5	7
39	Objects, Actions, Places. International Journal of Computer Vision, 2014, 106, 235-236.	15.6	0
40	Lattice estimation from images of patterns that exhibit translational symmetry. Image and Vision Computing, 2014, 32, 64-73.	4.5	7
41	Classification and Immunohistochemical Scoring of Breast Tissue Microarray Spots. IEEE Transactions on Biomedical Engineering, 2013, 60, 2806-2814.	4.2	12
42	Combining embedded accelerometers with computer vision for recognizing food preparation activities. , 2013, , .		224
43	User-adaptive models for recognizing food preparation activities. , 2013, , .		9
44	Immunohistochemical analysis of breast tissue microarray images using contextual classifiers. Journal of Pathology Informatics, 2013, 4, 13.	1.7	13
45	Classification of colorectal polyp regions in optical projection tomography. , 2013, , .		5
46	Learning from Partially Annotated OPT Images by Contextual Relevance Ranking. Lecture Notes in Computer Science, 2013, 16, 429-436.	1.3	1
47	Accelerometer Localization in the View of a Stationary Camera. , 2012, , .		8
48	Special issue on microscopy image analysis for biomedical applications. Machine Vision and Applications, 2012, 23, 603-605.	2.7	0
49	RERBEE: Robust Efficient Registration via Bifurcations and Elongated Elements Applied to Retinal Fluorescein Angiogram Sequences. IEEE Transactions on Medical Imaging, 2012, 31, 140-150.	8.9	21
50	Recognition of immunogold markers in electron micrographs. Journal of Structural Biology, 2011, 176, 151-158.	2.8	9
51	Automated motion estimation of root responses to sucrose in two Arabidopsis thaliana genotypes using confocal microscopy. Planta, 2011, 234, 769-784.	3.2	17
52	Estimating the motion of plant root cells from in vivo confocal laser scanning microscopy images. Machine Vision and Applications, 2010, 21, 921-939.	2.7	19
53	Visualizing Image Collections Using High-Entropy Layout Distributions. IEEE Transactions on Multimedia, 2010, 12, 803-813.	7.2	8
54	Gaussian Process Learning from Order Relationships Using Expectation Propagation. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
55	Classifying Textile Designs Using Bags of Shapes. , 2010, , .		2
56	Classifying Textile Designs using Region Graphs. , 2010, , .		1
57	High-entropy layouts for content-based browsing and retrieval. , 2009, , .		6
58	Parts-based segmentation with overlapping part models using Markov chain Monte Carlo. Image and Vision Computing, 2009, 27, 504-513.	4.5	2
59	Learning Query-Dependent Distance Metrics for Interactive Image Retrieval. Lecture Notes in Computer Science, 2009, , 374-383.	1.3	1
60	Automated assessment of polyethylene wear in cemented acetabular components using anteroposterior radiographs of total hip replacements. Computerized Medical Imaging and Graphics, 2008, 32, 221-238.	5.8	6
61	Merging technology and users: Applying image browsing to the fashion industry for design inspiration. , 2008, , .		7
62	Classification of breast-tissue microarray spots using colour and local invariants. , 2008, , .		7
63	Regular Texture Analysis as Statistical Model Selection. Lecture Notes in Computer Science, 2008, , 242-255.	1.3	12
64	Performance of Low-Level Motion Estimation Methods for Confocal Microscopy of Plant Cells in vivo. , 2007, , .		14
65	Learning Active Shape Models for Bifurcating Contours. IEEE Transactions on Medical Imaging, 2007, 26, 666-677.	8.9	17
66	Tracking human motion using auxiliary particle filters and iterated likelihood weighting. Image and Vision Computing, 2007, 25, 852-862.	4.5	42
67	Human Pose Estimation Using Partial Configurations and Probabilistic Regions. International Journal of Computer Vision, 2007, 73, 285-306.	15.6	12
68	Root responses to soil physical conditions; growth dynamics from field to cell. Journal of Experimental Botany, 2006, 57, 437-447.	4.8	399
69	Gathering the requirements for a fall monitor using drama and video with older people. Technology and Disability, 2006, 17, 227-236.	0.6	35
70	Part-Based Multi-Frame Registration for Estimation of the Growth Of Cellular Networks in Plant Roots. , 2006, , .		7
71	Tracking the activity of participants in a meeting. Machine Vision and Applications, 2006, 17, 83-93.	2.7	15
72	Human tracking using 3D surface colour distributions. Image and Vision Computing, 2006, 24, 1332-1342.	4.5	4

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73	Requirements gathering using drama for computer vision-based monitoring in supportive home environments. <i>Gerontechnology</i> , 2006, 5, .	0.1	7
74	Segmenting Multiple Objects with Overlapping Appearance and Uncertainty. , 2006, , .		0
75	Double Contour Active Shape Models. , 2005, , .		4
76	Human Pose Estimation Using Learnt Probabilistic Region Similarities and Partial Configurations. <i>Lecture Notes in Computer Science</i> , 2004, , 291-303.	1.3	20
77	Activity summarisation and fall detection in a supportive home environment. , 2004, , .		172
78	Summarising contextual activity and detecting unusual inactivity in a supportive home environment. <i>Pattern Analysis and Applications</i> , 2004, 7, 386-401.	4.6	48
79	A comparison of skin history and trajectory-based representation schemes for the recognition of user-specified gestures. <i>Pattern Recognition</i> , 2004, 37, 999-1009.	8.1	24
80	An Experimental Comparison of Trajectory-Based and History-Based Representation for Gesture Recognition. <i>Lecture Notes in Computer Science</i> , 2004, , 152-163.	1.3	5
81	Tracking Groups of People. <i>Computer Vision and Image Understanding</i> , 2000, 80, 42-56.	4.7	541
82	Dynamic Vision. , 2000, , .		134
83	Tracking colour objects using adaptive mixture models. <i>Image and Vision Computing</i> , 1999, 17, 225-231.	4.5	252
84	MODELLING FACIAL COLOUR AND IDENTITY WITH GAUSSIAN MIXTURES. <i>Pattern Recognition</i> , 1998, 31, 1883-1892.	8.1	183
85	View-based adaptive affine tracking. <i>Lecture Notes in Computer Science</i> , 1998, , 828-842.	1.3	18
86	Recognising Moving Faces. , 1998, , 578-588.		13
87	Tracking facial feature points with Gabor wavelets and shape models. <i>Lecture Notes in Computer Science</i> , 1997, , 35-42.	1.3	56
88	Segmentation and tracking using colour mixture models. <i>Lecture Notes in Computer Science</i> , 1997, , 607-614.	1.3	43
89	Tracking and segmenting people in varying lighting conditions using colour. , 0, , .		121
90	View alignment with dynamically updated affine tracking. , 0, , .		4

#	ARTICLE	IF	CITATIONS
91	Tracking interacting people. , 0, , .		55