Stephen J Mckenna

List of Publications by Year
in descending order

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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	Tracking Groups of People. Computer Vision and Image Understanding, 2000, 80, 42-56.	4.7	541
2	Root responses to soil physical conditions; growth dynamics from field to cell. Journal of Experimental Botany, 2006, 57, 437-447.	4.8	399
3	Tracking colour objects using adaptive mixture models. Image and Vision Computing, 1999, 17, 225-231.	4.5	252
4	Combining embedded accelerometers with computer vision for recognizing food preparation activities. , 2013, , .		224
5	MODELLING FACIAL COLOUR AND IDENTITY WITH GAUSSIAN MIXTURES. Pattern Recognition, 1998, 31, 1883-1892.	8.1	183
6	Activity summarisation and fall detection in a supportive home environment. , 2004, , .		172
7	Dynamic Vision. , 2000, , .		134
8	Tracking and segmenting people in varying lighting conditions using colour. , 0, , .		121
9	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
10	Tracking facial feature points with Gabor wavelets and shape models. Lecture Notes in Computer Science, 1997, , 35-42.	1.3	56
11	Tracking interacting people. , 0, , .		55
12	Boundary-Aware Fully Convolutional Network for Brain Tumor Segmentation. Lecture Notes in Computer Science, 2017, , 433-441.	1.3	52
13	Summarising contextual activity and detecting unusual inactivity in a supportive home environment. Pattern Analysis and Applications, 2004, 7, 386-401.	4.6	48
14	Segmentation and tracking using colour mixture models. Lecture Notes in Computer Science, 1997, , 607-614.	1.3	43
15	Tracking human motion using auxiliary particle filters and iterated likelihood weighting. Image and Vision Computing, 2007, 25, 852-862.	4.5	42
16	Gland segmentation in colon histology images using hand-crafted features and convolutional neural networks. , 2016, , .		38
17	Structure Prediction for Gland Segmentation With Hand-Crafted and Deep Convolutional Features. IEEE Transactions on Medical Imaging, 2018, 37, 210-221.	8.9	36
18	Gathering the requirements for a fall monitor using drama and video with older people. Technology and Disability, 2006, 17, 227-236.	0.6	35

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19	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
20	A comparison of skin history and trajectory-based representation schemes for the recognition of user-specified gestures. Pattern Recognition, 2004, 37, 999-1009.	8.1	24
21	HEp-2 Cell Classification Using Multi-resolution Local Patterns and Ensemble SVMs. , 2014, , .		22
22	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
23	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
24	Human Pose Estimation Using Learnt Probabilistic Region Similarities and Partial Configurations. Lecture Notes in Computer Science, 2004, , 291-303.	1.3	20
25	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
26	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
27	View-based adaptive affine tracking. Lecture Notes in Computer Science, 1998, , 828-842.	1.3	18
28	Learning Active Shape Models for Bifurcating Contours. IEEE Transactions on Medical Imaging, 2007, 26, 666-677.	8.9	17
29	Automated motion estimation of root responses to sucrose in two Arabidopsis thaliana genotypes using confocal microscopy. Planta, 2011, 234, 769-784.	3.2	17
30	Tracking the activity of participants in a meeting. Machine Vision and Applications, 2006, 17, 83-93.	2.7	15
31	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
32	Performance of Low-Level Motion Estimation Methods for Confocal Microscopy of Plant Cells in vivo. , 2007, , .		14
33	Multi-task Fully Convolutional Network for Brain Tumour Segmentation. Communications in Computer and Information Science, 2017, , 239-248.	0.5	14
34	Immunohistochemical analysis of breast tissue microarray images using contextual classifiers. Journal of Pathology Informatics, 2013, 4, 13.	1.7	13
35	Multimodal Egocentric Analysis of Focused Interactions. IEEE Access, 2018, 6, 37493-37505.	4.2	13
36	High-Throughput, Time-Resolved Mechanical Phenotyping of Prostate Cancer Cells. Scientific Reports, 2019, 9, 5742.	3.3	13

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37	Recognising Moving Faces. , 1998, , 578-588.		13
38	Human Pose Estimation Using Partial Configurations and Probabilistic Regions. International Journal of Computer Vision, 2007, 73, 285-306.	15.6	12
39	Classification and Immunohistochemical Scoring of Breast Tissue Microarray Spots. IEEE Transactions on Biomedical Engineering, 2013, 60, 2806-2814.	4.2	12
40	Regular Texture Analysis as Statistical Model Selection. Lecture Notes in Computer Science, 2008, , 242-255.	1.3	12
41	Recognising complex activities with histograms of relative tracklets. Computer Vision and Image Understanding, 2017, 154, 82-93.	4.7	11
42	Discriminating dysplasia: Optical tomographic texture analysis of colorectal polyps. Medical Image Analysis, 2015, 26, 57-69.	11.6	10
43	Recognition of immunogold markers in electron micrographs. Journal of Structural Biology, 2011, 176, 151-158.	2.8	9
44	User-adaptive models for recognizing food preparation activities. , 2013, , .		9
45	Automated Classification for Visual-Only Postmortem Inspection of Porcine Pathology. IEEE Transactions on Automation Science and Engineering, 2020, 17, 1005-1016.	5.2	9
46	Towards the Automatic Visual Monitoring of Electricity Pylons from Aerial Images. , 2020, , .		9
47	Visualizing Image Collections Using High-Entropy Layout Distributions. IEEE Transactions on Multimedia, 2010, 12, 803-813.	7.2	8
48	Accelerometer Localization in the View of a Stationary Camera. , 2012, , .		8
49	Aerial Image Analysis Using Deep Learning for Electrical Overhead Line Network Asset Management. IEEE Access, 2021, 9, 146281-146295.	4.2	8
50	Part-Based Multi-Frame Registration for Estimation of the Growth Of Cellular Networks in Plant Roots. , 2006, , .		7
51	Merging technology and users: Applying image browsing to the fashion industry for design inspiration. , 2008, , .		7
52	Classification of breast-tissue microarray spots using colour and local invariants. , 2008, , .		7
53	Queryâ€dependent metric learning for adaptive, contentâ€based image browsing and retrieval. IET Image Processing, 2014, 8, 610-618.	2.5	7
54	Lattice estimation from images of patterns that exhibit translational symmetry. Image and Vision Computing, 2014, 32, 64-73.	4.5	7

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55	Requirements gathering using drama for computer vision-based monitoring in supportive home environments. Gerontechnology, 2006, 5, .	0.1	7
56	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
57	High-entropy layouts for content-based browsing and retrieval. , 2009, , .		6
58	HEp-2 Specimen Classification Using Multi-resolution Local Patterns and SVM. , 2014, , .		6
59	Tumor localization in tissue microarrays using rotation invariant superpixel pyramids. , 2015, , .		6
60	Local structure prediction for gland segmentation. , 2016, , .		6
61	Classification of colorectal polyp regions in optical projection tomography. , 2013, , .		5
62	An Experimental Comparison of Trajectory-Based and History-Based Representation for Gesture Recognition. Lecture Notes in Computer Science, 2004, , 152-163.	1.3	5
63	View alignment with dynamically updated affine tracking. , 0, , .		4
64	Human tracking using 3D surface colour distributions. Image and Vision Computing, 2006, 24, 1332-1342.	4.5	4
65	Multi-part segmentation for porcine offal inspection with auto-context and adaptive atlases. Pattern Recognition Letters, 2018, 112, 290-296.	4.2	4
66	Double Contour Active Shape Models. , 2005, , .		4
67	Finding Time Together: Detection and Classification of Focused Interaction in Egocentric Video. , 2017, , .		3
68	Parts-based segmentation with overlapping part models using Markov chain Monte Carlo. Image and Vision Computing, 2009, 27, 504-513.	4.5	2
69	Classifying Textile Designs Using Bags of Shapes. , 2010, , .		2
70	Weighted atlas auto-context with application to multiple organ segmentation. , 2016, , .		2
71	First step for computer assisted evaluation of qualitative supersonic shear wave elastography characteristics in breast tissue. , 2016, , .		2
72	Segmentation of organs in pig offal using auto-context. , 2016, , .		2

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73	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
74	Unsupervised Representation Learning From Pathology Images With Multi-Directional Contrastive Predictive Coding. , 2021, , .		2
75	Gaussian Process Learning from Order Relationships Using Expectation Propagation. , 2010, , .		1
76	Hydrodynamic stretching for prostate cancer detection. , 2015, , .		1
77	Retinal Biomarker Discovery for Dementia in an Elderly Diabetic Population. Lecture Notes in Computer Science, 2017, , 150-158.	1.3	1
78	Sequential Recognition of Manipulation Actions Using Discriminative Superpixel Group Mining. , 2018, , .		1
79	Robust Selective Classification of Skin Lesions with Asymmetric Costs. Lecture Notes in Computer Science, 2021, , 112-121.	1.3	1
80	Learning Query-Dependent Distance Metrics for Interactive Image Retrieval. Lecture Notes in Computer Science, 2009, , 374-383.	1.3	1
81	Classifying Textile Designs using Region Graphs. , 2010, , .		1
82	Learning from Partially Annotated OPT Images by Contextual Relevance Ranking. Lecture Notes in Computer Science, 2013, 16, 429-436.	1.3	1
83	Special issue on microscopy image analysis for biomedical applications. Machine Vision and Applications, 2012, 23, 603-605.	2.7	0
84	Objects, Actions, Places. International Journal of Computer Vision, 2014, 106, 235-236.	15.6	0
85	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
86	Microfluidics-based, time-resolved mechanical phenotyping of cells using high-speed imaging. Proceedings of SPIE, 2017, , .	0.8	0
87	High-throughput, imaging based mechanical phenotyping of prostate cancer cells. , 2017, , .		0
88	Egomap: Hierarchical First-Person Semantic Mapping. Lecture Notes in Computer Science, 2021, , 348-363.	1.3	0
89	Cam-softmax for discriminative deep feature learning. , 2021, , .		0
90	Segmenting Multiple Objects with Overlapping Appearance and Uncertainty. , 2006, , .		0

#	Article	IF	Citations
91	Abstract P5-07-15: Breast cancer estrogen receptor scoring in tissue microarrays: Specialist breast pathologist versus automation. , 2016, , .		0