

Paul F Whelan

List of Publications by Year in descending order

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Version: 2024-02-01

113
papers

2,653
citations

257357

24
h-index

206029

48
g-index

117
all docs

117
docs citations

117
times ranked

2521
citing authors

#	ARTICLE	IF	CITATIONS
1	Refining the resolution of craniofacial dysmorphology in bipolar disorder as an index of brain dysmorphogenesis. <i>Psychiatry Research</i> , 2020, 291, 113243.	1.7	1
2	A Blind Nonlinearity Compensator Using DBSCAN Clustering for Coherent Optical Transmission Systems. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4398.	1.3	17
3	Convolutional neural network on three orthogonal planes for dynamic texture classification. <i>Pattern Recognition</i> , 2018, 76, 36-49.	5.1	58
4	Deep Learning in Texture Analysis and Its Application to Tissue Image Classification. , 2017, , 95-129.		22
5	The definitions of three-dimensional landmarks on the human face: an interdisciplinary view. <i>Journal of Anatomy</i> , 2016, 228, 355-365.	0.9	21
6	Using filter banks in Convolutional Neural Networks for texture classification. <i>Pattern Recognition Letters</i> , 2016, 84, 63-69.	2.6	199
7	Evaluation of Yogurt Microstructure Using Confocal Laser Scanning Microscopy and Image Analysis. <i>Journal of Food Science</i> , 2015, 80, E1218-28.	1.5	13
8	On the quantitative analysis of craniofacial asymmetry in 3D. , 2015, , .		0
9	3-D Facial Landmark Localization With Asymmetry Patterns and Shape Regression from Incomplete Local Features. <i>IEEE Transactions on Cybernetics</i> , 2015, 45, 1717-1730.	6.2	61
10	On the projection similarity in line grouping. <i>Pattern Recognition Letters</i> , 2015, 51, 50-56.	2.6	0
11	Evaluating the performance and correlation of colour invariant local image feature detectors. , 2014, , .		0
12	Automatic Segmentation of Mitochondria in EM Data Using Pairwise Affinity Factorization and Graph-Based Contour Searching. <i>IEEE Transactions on Image Processing</i> , 2014, 23, 4576-4586.	6.0	12
13	Asymmetry Patterns Shape Contexts to Describe the 3D Geometry of Craniofacial Landmarks. <i>Communications in Computer and Information Science</i> , 2014, , 19-35.	0.4	2
14	Texture Enhanced Histogram Equalization Using TV- λ Image Decomposition. <i>IEEE Transactions on Image Processing</i> , 2013, 22, 3133-3144.	6.0	15
15	Unsupervised mitochondria segmentation using recursive spectral clustering and adaptive similarity models. <i>Journal of Structural Biology</i> , 2013, 184, 401-408.	1.3	8
16	Compensating inaccurate annotations to train 3D facial landmark localization models. , 2013, , .		3
17	A Novel Framework for Cellular Tracking and Mitosis Detection in Dense Phase Contrast Microscopy Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2013, 17, 642-653.	3.9	43
18	Fully automated segmentation and tracking of the intima media thickness in ultrasound video sequences of the common carotid artery. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013, 60, 158-77.	1.7	47

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19	Comparing 3D Descriptors for Local Search of Craniofacial Landmarks. Lecture Notes in Computer Science, 2012, , 92-103.	1.0	16
20	Two algorithms for detection of mutually occluding traffic signs. , 2012, , .		3
21	A robust algorithm for detection and classification of traffic signs in video data. , 2012, , .		13
22	Local binary patterns versus signal processing texture analysis: a study from a performance evaluation perspective. Sensor Review, 2012, 32, 149-162.	1.0	13
23	Convective tissue movements play a major role in avian endocardial morphogenesis. Developmental Biology, 2012, 363, 348-361.	0.9	55
24	NeatVision: Development Environment for Machine Vision Engineers. , 2012, , 981-1029.		1
25	3D Facial Landmark Localization Using Combinatorial Search and Shape Regression. Lecture Notes in Computer Science, 2012, , 32-41.	1.0	6
26	Appendix C: Proverbs. , 2012, , 2023-2033.		0
27	A Machine Vision System for Quality Grading of Painted Slates. , 2012, , 1175-1200.		2
28	Basic Machine Vision Techniques. , 2012, , 565-623.		1
29	A Novel Model-Based 3D ⁺ Time Left Ventricular Segmentation Technique. IEEE Transactions on Medical Imaging, 2011, 30, 461-474.	5.4	40
30	Evaluation of robustness against rotation of LBP, CCR and ILBP features in granite texture classification. Machine Vision and Applications, 2011, 22, 913-926.	1.7	65
31	Image segmentation based on the integration of colour“texture descriptors”A review. Pattern Recognition, 2011, 44, 2479-2501.	5.1	181
32	Biologically-inspired data decorrelation for hyper-spectral imaging. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.0	5
33	Capturing Optimal Image Networks for Planar Camera Calibration. , 2011, , .		0
34	An active particle-based tracking framework for 2D and 3D time-lapse microscopy images. , 2011, 2011, 6613-8.		1
35	A Hybrid Approach to Brain Extraction from Premature Infant MRI. Lecture Notes in Computer Science, 2011, , 719-730.	1.0	9
36	A New Anticorrelation-Based Spectral Clustering Formulation. Lecture Notes in Computer Science, 2011, , 139-149.	1.0	0

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37	A generic framework for colour texture segmentation. <i>Sensor Review</i> , 2010, 30, 69-79.	1.0	12
38	A Novel Visual Speech Representation and HMM Classification for Visual Speech Recognition. <i>IPSI Transactions on Computer Vision and Applications</i> , 2010, 2, 25-38.	4.4	7
39	Efficient generic calibration method for general cameras with single centre of projection. <i>Computer Vision and Image Understanding</i> , 2010, 114, 220-233.	3.0	24
40	A new GVF-based image enhancement formulation for use in the presence of mixed noise. <i>Pattern Recognition</i> , 2010, 43, 2646-2658.	5.1	43
41	Automation of waste recycling using hyperspectral image analysis. , 2010, , .		6
42	A Novel Framework for Tracking In-vitro Cells in Time-lapse Phase Contrast Data. , 2010, , .		3
43	Colour saliency-based parameter optimisation for adaptive colour segmentation. , 2009, , .		3
44	Image feature enhancement based on the time-controlled total variation flow formulation. <i>Pattern Recognition Letters</i> , 2009, 30, 314-320.	2.6	5
45	Cellular Tracking in Time-Lapse Phase Contrast Images. , 2009, , .		4
46	Fuzzy Spectral and Spatial Feature Integration for Classification of Nonferrous Materials in Hyperspectral Data. <i>IEEE Transactions on Industrial Informatics</i> , 2009, 5, 483-494.	7.2	93
47	An automatic 2D CAD algorithm for the segmentation of the IMT in ultrasound carotid artery images. , 2009, 2009, 515-9.		17
48	A Novel Visual Speech Representation and HMM Classification for Visual Speech Recognition. <i>Lecture Notes in Computer Science</i> , 2009, , 398-409.	1.0	3
49	Segmenting the Left Ventricle in 3D Using a Coupled ASM and a Learned Non-Rigid Spatial Model. , 2009, , .		15
50	A Fully Automatic CAD-CTC System Based on Curvature Analysis for Standard and Low-Dose CT Data. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 888-901.	2.5	22
51	Segmentation of the Left Ventricle of the Heart in 3-D+t MRI Data Using an Optimized Nonrigid Temporal Model. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 195-203.	5.4	148
52	CTex"An Adaptive Unsupervised Segmentation Algorithm Based on Color-Texture Coherence. <i>IEEE Transactions on Image Processing</i> , 2008, 17, 1926-1939.	6.0	82
53	Cost-Effective HPC Clustering for Computer Vision Applications. , 2008, , .		0
54	Colour Texture Analysis. , 2008, , 129-163.		6

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55	Removing Pose from Face Images. Lecture Notes in Computer Science, 2008, , 692-702.	1.0	0
56	Multi-resolution Texture Classification Based on Local Image Orientation. Lecture Notes in Computer Science, 2008, , 688-696.	1.0	2
57	Automatic seed initialization for the expectation-maximization algorithm and its application in 3D medical imaging. Journal of Medical Engineering and Technology, 2007, 31, 332-340.	0.8	5
58	Adaptive Pre-Filtering Techniques for Colour Image Analysis. , 2007, , .		5
59	A New Manifold Representation for Visual Speech Recognition. , 2007, , .		3
60	Efficient Generic Calibration Method for General Cameras with Single Centre of Projection. , 2007, , .		5
61	Calibration and removal of lateral chromatic aberration in images. Pattern Recognition Letters, 2007, 28, 125-135.	2.6	52
62	Which pattern? Biasing aspects of planar calibration patterns and detection methods. Pattern Recognition Letters, 2007, 28, 921-930.	2.6	96
63	Development of a synthetic phantom for the selection of optimal scanning parameters in CADâ€™CT colonography. Medical Engineering and Physics, 2007, 29, 858-867.	0.8	2
64	Pose estimation for objects with planar surfaces using eigenimage and range data analysis. Machine Vision and Applications, 2007, 18, 355-365.	1.7	4
65	A visionâ€™based system for inspecting painted slates. Sensor Review, 2006, 26, 108-115.	1.0	7
66	Automatic segmentation of the left ventricle cavity and myocardium in MRI data. Computers in Biology and Medicine, 2006, 36, 389-407.	3.9	130
67	Left-ventricle myocardium segmentation using a coupled level-set with a priori knowledge. Computerized Medical Imaging and Graphics, 2006, 30, 255-262.	3.5	94
68	The use of 3D surface fitting for robust polyp detection and classification in CT colonography. Computerized Medical Imaging and Graphics, 2006, 30, 427-436.	3.5	13
69	Note on Feature Selection for Polyp Detection in CT Colonography. , 2006, , .		1
70	Shape Filtering for False Positive Reduction at Computed Tomography Colonography. Lecture Notes in Computer Science, 2006, 9, 84-92.	1.0	3
71	Intensity non-uniformity correction in multi-section whole body MRI. , 2005, , .		3
72	Projective rectification from the fundamental matrix. Image and Vision Computing, 2005, 23, 643-650.	2.7	94

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73	Quality grading of painted slates using texture analysis. Computers in Industry, 2005, 56, 802-815.	5.7	20
74	Fast colon centreline calculation using optimised 3D topological thinning. Computerized Medical Imaging and Graphics, 2005, 29, 251-258.	3.5	33
75	MRI diffusion-based filtering: a note on performance characterisation. Computerized Medical Imaging and Graphics, 2005, 29, 267-277.	3.5	18
76	Computational approach for depth from defocus. Journal of Electronic Imaging, 2005, 14, 023021.	0.5	17
77	Rapid Automated Measurement of Body Fat Distribution from Whole-Body MRI. American Journal of Roentgenology, 2005, 185, 418-423.	1.0	72
78	A statistical approach for robust polyp detection in CT colonography. , 2005, 2005, 2523-6.		5
79	Informatics in Radiology (infoRAD). Radiographics, 2004, 24, 1193-1202.	1.4	5
80	Informatics in Radiology (infoRAD). Radiographics, 2004, 24, 1779-1789.	1.4	7
81	A visual programming environment for machine vision engineers. Sensor Review, 2004, 24, 265-270.	1.0	3
82	Integration of feature distributions for colour texture segmentation. , 2004, , .		5
83	Precise radial un-distortion of images. , 2004, , .		30
84	Efficient morphological reconstruction: a downhill filter. Pattern Recognition Letters, 2004, 25, 1759-1767.	2.6	55
85	The use of neighbourhood intensity comparisons, morphological gradients and Fourier analysis for automated precipitate counting & PendellÅrsung fringe analysis in X-ray topography. EPJ Applied Physics, 2004, 27, 443-446.	0.3	0
86	A bin picking system based on depth from defocus. Machine Vision and Applications, 2003, 13, 234-244.	1.7	42
87	<title>Automated synthesis, insertion and detection of polyps for CT colonography</title>. , 2003, 4877, 183.		5
88	<title>Robust 3D landmark tracking using trinocular vision</title>. , 2003, , .		4
89	<title>Segmentation of the biliary tree in MRCP data</title>. , 2003, , .		1
90	<title>Tracking of facial features using deformable triangles</title>. , 2003, 4877, 138.		3

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91	Experimentation on the Use of Chromaticity Features, Local Binary Pattern, and Discrete Cosine Transform in Colour Texture Analysis. Lecture Notes in Computer Science, 2003, , 186-192.	1.0	2
92	Computational approach for edge linking. Journal of Electronic Imaging, 2002, 11, 479.	0.5	43
93	Experiments in colour texture analysis. Pattern Recognition Letters, 2001, 22, 1161-1167.	2.6	174
94	A video-rate range sensor based on depth from defocus. Optics and Laser Technology, 2001, 33, 167-176.	2.2	18
95	Real-time Registration of Paper Watermarks. Real Time Imaging, 2001, 7, 367-380.	1.6	11
96	Machine Vision Algorithms in Java. , 2001, , .		23
97	Active-meshes. Pattern Recognition Letters, 2000, 21, 1071-1080.	2.6	11
98	<title>Robust robotic manipulation</title>. , 1998, 3522, 244.		1
99	<title>Machine vision and the World Wide Web: design and training aids</title>. , 1997, , .		0
100	<title>Object recognition using eigenvectors</title>. , 1997, 3208, 85.		2
101	<title>Navigation using self-initializing active contours</title>. , 1997, 3208, 56.		1
102	Intelligent Vision Systems for Industry. , 1997, , .		51
103	<title>Color-to-speech sensory substitution device for the visually impaired</title>. , 1997, , .		0
104	Automated packing systems-a systems engineering approach. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 1996, 26, 533-544.	3.4	9
105	<title>Ethical, environmental and social issues for machine vision in manufacturing industry</title>. , 1995, , .		0
106	Real-time colour recognition in symbolic programming for machine vision systems. Machine Vision and Applications, 1995, 8, 385-398.	1.7	5
107	Real-time colour recognition in symbolic programming for machine vision systems. Machine Vision and Applications, 1995, 8, 385-398.	1.7	1
108	<title>Application of machine vision technology to the development of aids for the visually impaired</title>. , 1994, , .		1

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109	<title>Qualitative model-based diagnosis driven by visual inspection defect data</title>. , 1994, , .		0
110	Flexible packing of arbitrary two-dimensional shapes. Optical Engineering, 1993, 32, 3278.	0.5	13
111	<title>Automated packing systems: review of industrial implementations</title>. , 1993, , .		6
112	<title>Automated packing of arbitrary shapes</title>. , 1992, 1615, 77.		3
113	<title>Development of a vision system for the flexible packing of random shapes</title>. , 1992, , .		5