

Christopher J Taylor

List of Publications by Year in descending order

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119
papers

15,499
citations

101384

36
h-index

33814

99
g-index

123
all docs

123
docs citations

123
times ranked

8380
citing authors

#	ARTICLE	IF	CITATIONS
1	Active Shape Models-Their Training and Application. Computer Vision and Image Understanding, 1995, 61, 38-59.	3.0	6,050
2	Active appearance models. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2001, 23, 681-685.	9.7	4,162
3	Automatic interpretation and coding of face images using flexible models. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1997, 19, 743-756.	9.7	506
4	A minimum description length approach to statistical shape modeling. IEEE Transactions on Medical Imaging, 2002, 21, 525-537.	5.4	436
5	Automatic face identification system using flexible appearance models. Image and Vision Computing, 1995, 13, 393-401.	2.7	264
6	<title>Statistical models of appearance for medical image analysis and computer vision</title>. , 2001, , .		254
7	View-based active appearance models. Image and Vision Computing, 2002, 20, 657-664.	2.7	251
8	Evaluation of 3D Correspondence Methods for Model Building. Lecture Notes in Computer Science, 2003, 18, 63-75.	1.0	208
9	A mixture model for representing shape variation. Image and Vision Computing, 1999, 17, 567-573.	2.7	205
10	The use of active shape models for making thickness measurements of articular cartilage from MR images. Magnetic Resonance in Medicine, 1997, 37, 943-952.	1.9	134
11	Linear Structures in Mammographic Images: Detection and Classification. IEEE Transactions on Medical Imaging, 2004, 23, 1077-1086.	5.4	123
12	Model-based image interpretation using genetic algorithms. Image and Vision Computing, 1992, 10, 295-300.	2.7	116
13	Diurnal variation in the femoral articular cartilage of the knee in young adult humans. Magnetic Resonance in Medicine, 2000, 43, 126-132.	1.9	111
14	3D Statistical Shape Models Using Direct Optimisation of Description Length. Lecture Notes in Computer Science, 2002, , 3-20.	1.0	108
15	Noninvasive imaging techniques in the assessment of scleroderma spectrum disorders. Arthritis and Rheumatism, 2009, 61, 1103-1111.	6.7	106
16	Vertebral Shape: Automatic Measurement with Active Shape Models. Radiology, 1999, 211, 571-578.	3.6	103
17	Statistical models of face images "improving specificity. Image and Vision Computing, 1998, 16, 203-211.	2.7	94
18	Building 3-D Statistical Shape Models by Direct Optimization. IEEE Transactions on Medical Imaging, 2010, 29, 961-981.	5.4	94

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19	Automatic construction of eigenshape models by direct optimization. <i>Medical Image Analysis</i> , 1998, 2, 303-314.	7.0	92
20	Comparison of model-based arterial input functions for dynamic contrast-enhanced MRI in tumor bearing rats. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 1173-1184.	1.9	84
21	A Unified Information-Theoretic Approach to Groupwise Non-rigid Registration and Model Building. <i>Lecture Notes in Computer Science</i> , 2005, 19, 1-14.	1.0	83
22	Model-based detection of spiculated lesions in mammograms. <i>Medical Image Analysis</i> , 1999, 3, 39-62.	7.0	81
23	Computerized nailfold video capillaroscopy--a new tool for assessment of Raynaud's phenomenon. <i>Journal of Rheumatology</i> , 2005, 32, 841-8.	1.0	80
24	A method of automated landmark generation for automated 3D PDM construction. <i>Image and Vision Computing</i> , 2000, 18, 739-748.	2.7	65
25	Accurate Regression Procedures for Active Appearance Models. , 2011, , .		62
26	Computing Accurate Correspondences across Groups of Images. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010, 32, 1994-2005.	9.7	60
27	Anatomically Corresponded Regional Analysis of Cartilage in Asymptomatic and Osteoarthritic Knees by Statistical Shape Modelling of the Bone. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 1541-1559.	5.4	58
28	Active Shape Models and the shape approximation problem. <i>Image and Vision Computing</i> , 1996, 14, 601-607.	2.7	57
29	Automatic measurement of vertebral shape using active shape models. <i>Image and Vision Computing</i> , 1997, 15, 575-581.	2.7	56
30	The use of kernel principal component analysis to model data distributions. <i>Pattern Recognition</i> , 2003, 36, 217-227.	5.1	54
31	Shape Discrimination in the Hippocampus Using an MDL Model. <i>Lecture Notes in Computer Science</i> , 2003, 18, 38-50.	1.0	54
32	A Cluster Analysis Approach for the Characterization of Dynamic PET Data. , 1996, , 301-306.		49
33	Tracking and recognising hand gestures, using statistical shape models. <i>Image and Vision Computing</i> , 1997, 15, 345-352.	2.7	49
34	Building optimal 2D statistical shape models. <i>Image and Vision Computing</i> , 2003, 21, 1171-1182.	2.7	46
35	A minimum description length objective function for groupwise non-rigid image registration. <i>Image and Vision Computing</i> , 2008, 26, 333-346.	2.7	46
36	A cooperative framework for segmentation of MRI brain scans. <i>Artificial Intelligence in Medicine</i> , 2000, 20, 77-93.	3.8	45

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37	Diffeomorphic statistical shape models. <i>Image and Vision Computing</i> , 2008, 26, 326-332.	2.7	44
38	Improved quantitative dynamic regional oxygen-enhanced pulmonary imaging using image registration. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 464-469.	1.9	43
39	Magnetic resonance transverse relaxation time T2 of knee cartilage in osteoarthritis at 3-T: a cross-sectional multicentre, multivendor reproducibility study. <i>Skeletal Radiology</i> , 2013, 42, 511-520.	1.2	43
40	Measurement and visualisation of focal cartilage thickness change by MRI in a study of knee osteoarthritis using a novel image analysis tool. <i>British Journal of Radiology</i> , 2010, 83, 940-948.	1.0	40
41	Comparison of 3T MR scanners in regional cartilage-thickness analysis in osteoarthritis: a cross-sectional multicenter, multivendor study. <i>Arthritis Research and Therapy</i> , 2010, 12, R202.	1.6	35
42	A Minimum Description Length Approach to Statistical Shape Modelling. <i>Lecture Notes in Computer Science</i> , 2001, , 50-63.	1.0	33
43	Defect Detection and Classification by Training a Generic Convolutional Neural Network Encoder. <i>IEEE Transactions on Signal Processing</i> , 2020, 68, 6055-6069.	3.2	32
44	MR measurement of articular cartilage thickness distribution in the hip. <i>Osteoarthritis and Cartilage</i> , 2006, 14, 967-973.	0.6	31
45	The influence of measurement location on reliability of quantitative nailfold videocapillaroscopy in patients with SSc. <i>Rheumatology</i> , 2012, 51, 1323-1330.	0.9	31
46	Web Services for the DDSM and Digital Mammography Research. <i>Lecture Notes in Computer Science</i> , 2006, , 376-383.	1.0	29
47	Statistical grey-level models for object location and identification. <i>Image and Vision Computing</i> , 1996, 14, 533-540.	2.7	28
48	Automatically building appearance models from image sequences using salient features. <i>Image and Vision Computing</i> , 2002, 20, 435-440.	2.7	27
49	Groupwise Non-rigid Registration Using Polyharmonic Clamped-Plate Splines. <i>Lecture Notes in Computer Science</i> , 2003, , 771-779.	1.0	27
50	Groupwise surface correspondence by optimization: Representation and regularization. <i>Medical Image Analysis</i> , 2008, 12, 787-796.	7.0	27
51	Automatic aerospace weld inspection using unsupervised local deep feature learning. <i>Knowledge-Based Systems</i> , 2021, 221, 106892.	4.0	25
52	Oxygen-induced changes in longitudinal relaxation times in skeletal muscle. <i>Magnetic Resonance Imaging</i> , 2008, 26, 221-227.	1.0	24
53	Abnormalities of CSF flow patterns in the cerebral aqueduct in treatment-resistant late-life depression: A potential biomarker of microvascular angiopathy. <i>Magnetic Resonance in Medicine</i> , 2006, 56, 509-516.	1.9	23
54	Automated structure and flow measurement " a promising tool in nailfold capillaroscopy. <i>Microvascular Research</i> , 2018, 118, 173-177.	1.1	23

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55	A Random Forest-Based Automatic Inspection System for Aerospace Welds in X-Ray Images. IEEE Transactions on Automation Science and Engineering, 2021, 18, 2128-2141.	3.4	21
56	AUTOMATION IN MAMMOGRAPHY: COMPUTER VISION AND HUMAN PERCEPTION. International Journal of Pattern Recognition and Artificial Intelligence, 1993, 07, 1313-1338.	0.7	19
57	Preliminary Clinical Evaluation of Semi-automated Nailfold Capillaroscopy in the Assessment of Patients with Raynaud's Phenomenon. Microcirculation, 2011, 18, 440-447.	1.0	19
58	Preoperative implant selection for unilateral breast reconstruction using 3D imaging with the Microsoft Kinect sensor. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2017, 70, 1059-1067.	0.5	19
59	Combining Local and Global Shape Models for Deformable Object Matching. , 2009, , .		19
60	Model-based interpretation of complex and variable images. Philosophical Transactions of the Royal Society B: Biological Sciences, 1997, 352, 1267-1274.	1.8	18
61	The use of the L-curve method in the inversion of diffusion battery data. Journal of Aerosol Science, 1997, 28, 1251-1264.	1.8	18
62	An Automated System for Detecting and Measuring Nailfold Capillaries. Lecture Notes in Computer Science, 2014, 17, 658-665.	1.0	18
63	Non-linear point distribution modelling using a multi-layer perceptron. Image and Vision Computing, 1997, 15, 457-463.	2.7	17
64	Automatic segmentation of bones and inter-image anatomical correspondence by volumetric statistical modelling of knee MRI. , 2010, , .		17
65	Detecting and Classifying Linear Structures in Mammograms Using Random Forests. Lecture Notes in Computer Science, 2011, 22, 510-524.	1.0	17
66	3D Brain Segmentation Using Active Appearance Models and Local Regressors. Lecture Notes in Computer Science, 2008, 11, 401-408.	1.0	17
67	Quantitative nailfold capillaroscopy's update and possible next steps. Rheumatology, 2021, 60, 2054-2065.	0.9	16
68	Quantification of articular cartilage from MR images using active shape models. Lecture Notes in Computer Science, 1996, , 400-411.	1.0	16
69	Automatic construction of eigenshape models by Genetic Algorithm. Lecture Notes in Computer Science, 1997, , 1-14.	1.0	12
70	Comparison between low cost USB nailfold capillaroscopy and videocapillaroscopy: a pilot study. Rheumatology, 2020, 60, 3862-3867.	0.9	12
71	Multiple-bolus dynamic contrast-enhanced MRI in the pancreas during a glucose challenge. Journal of Magnetic Resonance Imaging, 2010, 32, 622-628.	1.9	11
72	An object location strategy using shape and grey-level models. Image and Vision Computing, 1989, 7, 50-56.	2.7	10

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73	Flexible 3D models from uncalibrated cameras. Image and Vision Computing, 1996, 14, 581-587.	2.7	10
74	Defect Classification and Detection Using a Multitask Deep One-Class CNN. IEEE Transactions on Automation Science and Engineering, 2022, 19, 1719-1730.	3.4	10
75	An Efficient Method for Constructing Optimal Statistical Shape Models. Lecture Notes in Computer Science, 2001, , 57-65.	1.0	10
76	Locating Facial Features and Pose Estimation Using a 3D Shape Model. Lecture Notes in Computer Science, 2009, , 750-761.	1.0	9
77	Corresponding Articular Cartilage Thickness Measurements in the Knee Joint by Modelling the Underlying Bone. Lecture Notes in Computer Science, 2003, , 480-487.	1.0	8
78	Improved wrist pannus volume measurement from contrast-enhanced MRI in rheumatoid arthritis using shuffle transform. Magnetic Resonance Imaging, 2007, 25, 110-116.	1.0	8
79	Corresponding Articular Cartilage Thickness Measurements in the Knee Joint by Modelling the Underlying Bone (Commercial in Confidence). Lecture Notes in Computer Science, 2003, 18, 126-135.	1.0	8
80	An automated method for assessing routine radiographs of patients with total hip replacements. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 1997, 211, 145-154.	1.0	7
81	Prompting in Mammography: How Good Must Prompt Generators Be?. Computational Imaging and Vision, 1998, , 347-354.	0.6	7
82	Indexed distribution analysis for improved significance testing of spatially heterogeneous parameter maps: Application to dynamic contrast-enhanced MRI biomarkers. Magnetic Resonance in Medicine, 2014, 71, 1299-1311.	1.9	6
83	Breast Cancer Risk Analysis Based on a Novel Segmentation Framework for Digital Mammograms. Lecture Notes in Computer Science, 2014, 17, 536-543.	1.0	6
84	Detecting the Central Mass of a Spiculated Lesion Using Scale-Orientation Signatures. Computational Imaging and Vision, 1998, , 63-70.	0.6	6
85	Three-dimensional segmentation of breast masses from digital breast tomosynthesis images. Journal of Medical Imaging, 2017, 4, 1.	0.8	6
86	<title>Statistical modeling of oriented line patterns in mammograms</title>. , 1997, , .		5
87	Specificity: A Graph-Based Estimator of Divergence. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 2492-2505.	9.7	5
88	Improved 3D Model Search for Facial Feature Location and Pose Estimation in 2D images. , 2010, , .		5
89	A frame-based system for modelling and executing visual tasks. Image and Vision Computing, 1989, 7, 102-108.	2.7	4
90	<title>Blackboard architecture for medical image interpretation</title>. , 1991, , .		4

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91	<title>Statistical modeling of lines and structures in mammograms</title>. , 1997, 3034, 510.		4
92	Abnormal masses in mammograms: Detection using scale-orientation signatures. Lecture Notes in Computer Science, 1998, , 570-577.	1.0	4
93	A non-linear registration method for DCE-MRI and DCE-CT comparison in bladder tumors. , 2008, , .		4
94	Texture-Based Breast Cancer Prediction in Full-Field Digital Mammograms Using the Dual-Tree Complex Wavelet Transform and Random Forest Classification. Lecture Notes in Computer Science, 2014, , 209-216.	1.0	4
95	A Novel Framework for Fat, Glandular Tissue, Pectoral Muscle and Nipple Segmentation in Full Field Digital Mammograms. Lecture Notes in Computer Science, 2014, , 201-208.	1.0	4
96	A Method to Monitor Local Changes in MR Signal Intensity in Articular Cartilage: A Potential Marker for Cartilage Degeneration in Osteoarthritis. Lecture Notes in Computer Science, 2004, , 959-966.	1.0	4
97	Metrics, Connections, and Correspondence: The Setting for Groupwise Shape Analysis. Lecture Notes in Computer Science, 2011, , 399-412.	1.0	4
98	Detection of Mammographic Microcalcifications Using a Statistical Model. Computational Imaging and Vision, 1998, , 205-208.	0.6	4
99	Simulating nailfold capillaroscopy sequences to evaluate algorithms for blood flow estimation. , 2013, 2013, 2636-9.		3
100	Statistical modelling of lines and structures in mammograms. Lecture Notes in Computer Science, 1997, , 405-410.	1.0	3
101	Improved Diagnosis of Systemic Sclerosis Using Nailfold Capillary Flow. Lecture Notes in Computer Science, 2016, , 344-352.	1.0	3
102	Adding Facial Actions into 3D Model Search to Analyse Behaviour in an Unconstrained Environment. Lecture Notes in Computer Science, 2010, , 132-142.	1.0	3
103	AUTOMATION IN MAMMOGRAPHY: COMPUTER VISION AND HUMAN PERCEPTION. Series in Machine Perception and Artificial Intelligence, 1994, , 1-25.	0.1	3
104	Face Alignment Models. , 2011, , 109-135.		2
105	Non-parametric Surface-Based Regularisation for Building Statistical Shape Models. , 2007, 20, 738-750.		2
106	Classification of Linear Structures in Mammograms Using Random Forests. Lecture Notes in Computer Science, 2010, , 153-160.	1.0	2
107	Automated Analysis of Retinal Images. , 1991, , .		2
108	GROUP-WISE CORRESPONDENCE OF SURFACES USING NON-PARAMETRIC REGULARISATION AND SHAPE IMAGES. , 2007, , .		1

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109	A Multi-agent System for MRI Brain Segmentation. Lecture Notes in Computer Science, 1999, , 423-432.	1.0	1
110	Modelling Structural Deformations in Mammographic Tissue Using the Dual-Tree Complex Wavelet. Lecture Notes in Computer Science, 2010, , 145-152.	1.0	1
111	Using Detailed Independent 3D Sub-models to Improve Facial Feature Localisation and Pose Estimation. Lecture Notes in Computer Science, 2012, , 398-408.	1.0	1
112	Synthesising Malignant Breast Masses in Normal Mammograms. Lecture Notes in Computer Science, 2010, , 505-512.	1.0	1
113	Analysis of Retinal Images Using Mathematical Morphology. , 1992, , 313-327.		1
114	Contrast-modified gradient echo imaging using rotary echo preparatory pulses. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1997, 5, 193-200.	1.1	0
115	Evaluation of blood vessel detection methods. Proceedings of SPIE, 2011, , .	0.8	0
116	USING DETAILED INDEPENDENT 3D SUB-MODELS TO IMPROVE FACIAL FEATURE LOCALISATION AND POSE ESTIMATION. International Journal on Artificial Intelligence Tools, 2013, 22, 1360017.	0.7	0
117	Improved Regional Analysis of Oxygen-Enhanced Lung MR Imaging Using Image Registration. Lecture Notes in Computer Science, 2004, , 862-869.	1.0	0
118	Locating Overlapping Flexible Shapes Using Geometrical Constraints. , 1991, , .		0
119	Linear and Non-Linear Modelling of Scale-Orientation Signatures. , 1998, , 152-157.		0