Christopher J Taylor

List of Publications by Year
in descending order

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	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
2	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
3	Quantitative nailfold capillaroscopyâ€"update and possible next steps. Rheumatology, 2021, 60, 2054-2065.	0.9	16
4	Automatic aerospace weld inspection using unsupervised local deep feature learning. Knowledge-Based Systems, 2021, 221, 106892.	4.0	25
5	Comparison between low cost USB nailfold capillaroscopy and videocapillaroscopy: a pilot study. Rheumatology, 2020, 60, 3862-3867.	0.9	12
6	Defect Detection and Classification by Training a Generic Convolutional Neural Network Encoder. IEEE Transactions on Signal Processing, 2020, 68, 6055-6069.	3.2	32
7	Automated structure and flow measurement â€" a promising tool in nailfold capillaroscopy. Microvascular Research, 2018, 118, 173-177.	1.1	23
8	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
9	Three-dimensional segmentation of breast masses from digital breast tomosynthesis images. Journal of Medical Imaging, 2017, 4, 1.	0.8	6
10	Improved Diagnosis of Systemic Sclerosis Using Nailfold Capillary Flow. Lecture Notes in Computer Science, 2016, , 344-352.	1.0	3
11	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
12	An Automated System for Detecting and Measuring Nailfold Capillaries. Lecture Notes in Computer Science, 2014, 17, 658-665.	1.0	18
13	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
14	Indexed distribution analysis for improved significance testing of spatially heterogeneous parameter maps: Application to dynamic contrastâ€enhanced MRI biomarkers. Magnetic Resonance in Medicine, 2014, 71, 1299-1311.	1.9	6
15	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
16	Magnetic resonance transverse relaxation time T2 of knee cartilage in osteoarthritis at 3-T: a cross-sectional multicentre, multivendor reproducibility study. Skeletal Radiology, 2013, 42, 511-520.	1.2	43
17	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
18	Simulating nailfold capillaroscopy sequences to evaluate algorithms for blood flow estimation. , 2013, 2013, 2636-9.		3

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19	The influence of measurement location on reliability of quantitative nailfold videocapillaroscopy in patients with SSc. Rheumatology, 2012, 51, 1323-1330.	0.9	31
20	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
21	Evaluation of blood vessel detection methods. Proceedings of SPIE, 2011, , .	0.8	0
22	Detecting and Classifying Linear Structures in Mammograms Using Random Forests. Lecture Notes in Computer Science, 2011, 22, 510-524.	1.0	17
23	Face Alignment Models. , 2011, , 109-135.		2
24	Specificity: A Graph-Based Estimator of Divergence. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 2492-2505.	9.7	5
25	Preliminary Clinical Evaluation of Semi-automated Nailfold Capillaroscopy in the Assessment of Patients with Raynaudâ€™s Phenomenon. Microcirculation, 2011, 18, 440-447.	1.0	19
26	Metrics, Connections, and Correspondence: The Setting for Groupwise Shape Analysis. Lecture Notes in Computer Science, 2011, , 399-412.	1.0	4
27	Accurate Regression Procedures for Active Appearance Models. , 2011, , .		62
28	Building 3-D Statistical Shape Models by Direct Optimization. IEEE Transactions on Medical Imaging, 2010, 29, 961-981.	5.4	94
29	Anatomically Corresponded Regional Analysis of Cartilage in Asymptomatic and Osteoarthritic Knees by Statistical Shape Modelling of the Bone. IEEE Transactions on Medical Imaging, 2010, 29, 1541-1559.	5.4	58
30	Multipleâ€bolus dynamic contrastâ€enhanced MRI in the pancreas during a glucose challenge. Journal of Magnetic Resonance Imaging, 2010, 32, 622-628.	1.9	11
31	Measurement and visualisation of focal cartilage thickness change by MRI in a study of knee osteoarthritis using a novel image analysis tool. British Journal of Radiology, 2010, 83, 940-948.	1.0	40
32	Computing Accurate Correspondences across Groups of Images. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1994-2005.	9.7	60
33	Automatic segmentation of bones and inter-image anatomical correspondence by volumetric statistical modelling of knee MRI. , 2010, , .		17
34	Comparison of 3T MR scanners in regional cartilage-thickness analysis in osteoarthritis: a cross-sectional multicenter, multivendor study. Arthritis Research and Therapy, 2010, 12, R202.	1.6	35
35	Modelling Structural Deformations in Mammographic Tissue Using the Dual-Tree Complex Wavelet. Lecture Notes in Computer Science, 2010, , 145-152.	1.0	1
36	Classification of Linear Structures in Mammograms Using Random Forests. Lecture Notes in Computer Science, 2010, , 153-160.	1.0	2

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37	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
38	Improved 3D Model Search for Facial Feature Location and Pose Estimation in 2D images. , 2010, , .		5
39	Synthesising Malignant Breast Masses in Normal Mammograms. Lecture Notes in Computer Science, 2010, , 505-512.	1.0	1
40	Comparison of modelâ€based arterial input functions for dynamic contrastâ€enhanced MRI in tumor bearing rats. Magnetic Resonance in Medicine, 2009, 61, 1173-1184.	1.9	84
41	Noninvasive imaging techniques in the assessment of scleroderma spectrum disorders. Arthritis and Rheumatism, 2009, 61, 1103-1111.	6.7	106
42	Combining Local and Global Shape Models for Deformable Object Matching. , 2009, , .		19
43	Locating Facial Features and Pose Estimation Using a 3D Shape Model. Lecture Notes in Computer Science, 2009, , 750-761.	1.0	9
44	Groupwise surface correspondence by optimization: Representation and regularization. Medical Image Analysis, 2008, 12, 787-796.	7.0	27
45	Oxygen-induced changes in longitudinal relaxation times in skeletal muscle. Magnetic Resonance Imaging, 2008, 26, 221-227.	1.0	24
46	Diffeomorphic statistical shape models. Image and Vision Computing, 2008, 26, 326-332.	2.7	44
47	A minimum description length objective function for groupwise non-rigid image registration. Image and Vision Computing, 2008, 26, 333-346.	2.7	46
48	A non-linear registration method for DCE-MRI and DCE-CT comparison in bladder tumors. , 2008, , .		4
49	3D Brain Segmentation Using Active Appearance Models and Local Regressors. Lecture Notes in Computer Science, 2008, 11, 401-408.	1.0	17
50	GROUP-WISE CORRESPONDENCE OF SURFACES USING NON-PARAMETRIC REGULARISATION AND SHAPE IMAGES. , 2007, , .		1
51	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
52	Non-parametric Surface-Based Regularisation for Building Statistical Shape Models. , 2007, 20, 738-750.		2
53	Web Services for the DDSM and Digital Mammography Research. Lecture Notes in Computer Science, 2006, , 376-383.	1.0	29
54	MR measurement of articular cartilage thickness distribution in the hip. Osteoarthritis and Cartilage, 2006, 14, 967-973.	0.6	31

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55	Abnormalities of CSF flow patterns in the cerebral aqueduct in treatment-resistant late-life depression: A potential biomarker of microvascular angiopathy. Magnetic Resonance in Medicine, 2006, 56, 509-516.	1.9	23
56	A Unified Information-Theoretic Approach to Groupwise Non-rigid Registration and Model Building. Lecture Notes in Computer Science, 2005, 19, 1-14.	1.0	83
57	Improved quantitative dynamic regional oxygen-enhanced pulmonary imaging using image registration. Magnetic Resonance in Medicine, 2005, 54, 464-469.	1.9	43
58	Computerized nailfold video capillaroscopy--a new tool for assessment of Raynaud's phenomenon. Journal of Rheumatology, 2005, 32, 841-8.	1.0	80
59	Linear Structures in Mammographic Images: Detection and Classification. IEEE Transactions on Medical Imaging, 2004, 23, 1077-1086.	5.4	123
60	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
61	Improved Regional Analysis of Oxygen-Enhanced Lung MR Imaging Using Image Registration. Lecture Notes in Computer Science, 2004, , 862-869.	1.0	0
62	Building optimal 2D statistical shape models. Image and Vision Computing, 2003, 21, 1171-1182.	2.7	46
63	The use of kernel principal component analysis to model data distributions. Pattern Recognition, 2003, 36, 217-227.	5.1	54
64	Evaluation of 3D Correspondence Methods for Model Building. Lecture Notes in Computer Science, 2003, 18, 63-75.	1.0	208
65	Groupwise Non-rigid Registration Using Polyharmonic Clamped-Plate Splines. Lecture Notes in Computer Science, 2003, , 771-779.	1.0	27
66	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
67	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
68	Shape Discrimination in the Hippocampus Using an MDL Model. Lecture Notes in Computer Science, 2003, 18, 38-50.	1.0	54
69	A minimum description length approach to statistical shape modeling. IEEE Transactions on Medical Imaging, 2002, 21, 525-537.	5.4	436
70	Automatically building appearance models from image sequences using salient features. Image and Vision Computing, 2002, 20, 435-440.	2.7	27
71	View-based active appearance models. Image and Vision Computing, 2002, 20, 657-664.	2.7	251
72	3D Statistical Shape Models Using Direct Optimisation of Description Length. Lecture Notes in Computer Science, 2002, , 3-20.	1.0	108

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73	<title>Statistical models of appearance for medical image analysis and computer vision</title>. , 2001, , .		254
74	Active appearance models. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2001, 23, 681-685.	9.7	4,162
75	An Efficient Method for Constructing Optimal Statistical Shape Models. Lecture Notes in Computer Science, 2001, , 57-65.	1.0	10
76	A Minimum Description Length Approach to Statistical Shape Modelling. Lecture Notes in Computer Science, 2001, , 50-63.	1.0	33
77	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
78	A cooperative framework for segmentation of MRI brain scans. Artificial Intelligence in Medicine, 2000, 20, 77-93.	3.8	45
79	A method of automated landmark generation for automated 3D PDM construction. Image and Vision Computing, 2000, 18, 739-748.	2.7	65
80	Vertebral Shape: Automatic Measurement with Active Shape Models. Radiology, 1999, 211, 571-578.	3.6	103
81	Model-based detection of spiculated lesions in mammograms. Medical Image Analysis, 1999, 3, 39-62.	7.0	81
82	A mixture model for representing shape variation. Image and Vision Computing, 1999, 17, 567-573.	2.7	205
83	A Multi-agent System for MRI Brain Segmentation. Lecture Notes in Computer Science, 1999, , 423-432.	1.0	1
84	Statistical models of face images â€" improving specificity. Image and Vision Computing, 1998, 16, 203-211.	2.7	94
85	Automatic construction of eigenshape models by direct optimization. Medical Image Analysis, 1998, 2, 303-314.	7.0	92
86	Abnormal masses in mammograms: Detection using scale-orientation signatures. Lecture Notes in Computer Science, 1998, , 570-577.	1.0	4
87	Detecting the Central Mass of a Spiculated Lesion Using Scale-Orientation Signatures. Computational Imaging and Vision, 1998, , 63-70.	0.6	6
88	Detection of Mammographic Microcalcifications Using a Statistical Model. Computational Imaging and Vision, 1998, , 205-208.	0.6	4
89	Prompting in Mammography: How Good Must Prompt Generators Be?. Computational Imaging and Vision, 1998, , 347-354.	0.6	7
90	Linear and Non-Linear Modelling of Scale-Orientation Signatures. , 1998, , 152-157.		0

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91	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
92	<title>Statistical modeling of oriented line patterns in mammograms</title>. , 1997, , .		5
93	<title>Statistical modeling of lines and structures in mammograms</title>. , 1997, 3034, 510.		4
94	Model-based interpretation of complex and variable images. Philosophical Transactions of the Royal Society B: Biological Sciences, 1997, 352, 1267-1274.	1.8	18
95	Automatic construction of eigenshape models by Genetic Algorithm. Lecture Notes in Computer Science, 1997, , 1-14.	1.0	12
96	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
97	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
98	Non-linear point distribution modelling using a multi-layer perceptron. Image and Vision Computing, 1997, 15, 457-463.	2.7	17
99	Tracking and recognising hand gestures, using statistical shape models. Image and Vision Computing, 1997, 15, 345-352.	2.7	49
100	Automatic measurement of vertebral shape using active shape models. Image and Vision Computing, 1997, 15, 575-581.	2.7	56
101	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
102	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
103	Statistical modelling of lines and structures in mammograms. Lecture Notes in Computer Science, 1997, , 405-410.	1.0	3
104	A Cluster Analysis Approach for the Characterization of Dynamic PET Data. , 1996, , 301-306.		49
105	Active Shape Models and the shape approximation problem. Image and Vision Computing, 1996, 14, 601-607.	2.7	57
106	Statistical grey-level models for object location and identification. Image and Vision Computing, 1996, 14, 533-540.	2.7	28
107	Flexible 3D models from uncalibrated cameras. Image and Vision Computing, 1996, 14, 581-587.	2.7	10
108	Quantification of articular cartilage from MR images using active shape models. Lecture Notes in Computer Science, 1996, , 400-411.	1.0	16

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109	Automatic face identification system using flexible appearance models. Image and Vision Computing, 1995, 13, 393-401.	2.7	264
110	Active Shape Models-Their Training and Application. Computer Vision and Image Understanding, 1995, 61, 38-59.	3.0	6,050
111	AUTOMATION IN MAMMOGRAPHY: COMPUTER VISION AND HUMAN PERCEPTION. Series in Machine Perception and Artificial Intelligence, 1994, , 1-25.	0.1	3
112	AUTOMATION IN MAMMOGRAPHY: COMPUTER VISION AND HUMAN PERCEPTION. International Journal of Pattern Recognition and Artificial Intelligence, 1993, 07, 1313-1338.	0.7	19
113	Model-based image interpretation using genetic algorithms. Image and Vision Computing, 1992, 10, 295-300.	2.7	116
114	Analysis of Retinal Images Using Mathematical Morphology. , 1992, , 313-327.		1
115	<title>Blackboard architecture for medical image interpretation</title>. , 1991, , .		4
116	Automated Analysis of Retinal Images. , 1991, , .		2
117	Locating Overlapping Flexible Shapes Using Geometrical Constraints. , 1991, , .		0
118	A frame-based system for modelling and executing visual tasks. Image and Vision Computing, 1989, 7, 102-108.	2.7	4
119	An object location strategy using shape and grey-level models. Image and Vision Computing, 1989, 7, 50-56.	2.7	10