Terry Caelli

List of Publications by Year in descending order

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Version: 2024-02-01

177	4,146	35	57
papers	citations	h-index	g-index
185	185	185	2555
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	The Situation Awareness Window: a Hidden Markov Model for analyzing Maritime Surveillance missions. Journal of Defense Modeling and Simulation, 2021, 18, 207-215.	1.7	2
2	Analytics for awareness in maritime surveillance: from data to tactical insight. Journal of Defense Modeling and Simulation, 2019, 16, 207-215.	1.7	2
3	Bayesian Contrast Measures and Clutter Distribution Determinants of Human Target Detection. IEEE Transactions on Image Processing, 2017, 26, 1115-1126.	9.8	3
4	Circular Error Probables for Moving Targets: The Dynamic Error Probable. Journal of Guidance, Control, and Dynamics, 2016, 39, 1690-1693.	2.8	O
5	Systematic review of virtual speech therapists for speech disorders. Computer Speech and Language, 2016, 37, 98-128.	4.3	42
6	Delaunay-supported edges for image graphs. , 2015, , .		1
7	Computer-Based Rehabilitation for Developing Speech and Language in Hearing-Impaired Children: A Systematic Review. Deafness and Education International, 2015, 17, 111-119.	1.3	4
8	Using Twitter to learn about the autism community. Social Network Analysis and Mining, 2015, 5, 1.	2.8	44
9	Efficient subgraph matching using topological node feature constraints. Pattern Recognition, 2015, 48, 317-330.	8.1	17
10	Multi-kinect skeleton fusion for physical rehabilitation monitoring. , 2014, 2014, 5060-3.		12
11	A Syntactic Two-Component Encoding Model for the Trajectories of Human Actions. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1903-1914.	6.3	10
12	Monitoring and Analysis of Respiratory Patterns Using Microwave Doppler Radar. IEEE Journal of Translational Engineering in Health and Medicine, 2014, 2, 1-12.	3.7	119
13	Non-contact measurement of respiratory function and deduction of tidal volume., 2014, 2014, 594-7.		2
14	Functional range of movement of the hand: Declination angles to reachable space., 2014, 2014, 6230-3.		7
15	Data-mining twitter and the autism spectrum disorder: A Pilot study. , 2014, , .		32
16	Individualized arrhythmia detection with ECG signals from wearable devices. , 2014, , .		4
17	mDBN., 2013,,.		1
18	Doppler radar in respiratory monitoring: Detection and analysis. , 2013, , .		9

#	Article	IF	Citations
19	A novel bio-kinematic encoder for human exercise representation and decomposition - Part 2: Robustness and optimisation. , 2013, , .		2
20	A novel bio-kinematic encoder for human exercise representation and decomposition - Part 1: Indexing and modelling. , $2013, \ldots$		1
21	Matching non-aligned objects using a relational string-graph. , 2013, , .		2
22	Further applications of Doppler radar for non-contact respiratory assessment., 2013, 2013, 3833-6.		4
23	A Unified Framework for Strengthening Topological Node Features and Its Application to Subgraph Isomorphism Detection. Lecture Notes in Computer Science, 2013, , 11-20.	1.3	8
24	Action trajectory reconstruction from inertial sensor measurements. , 2012, , .		4
25	Multiple emitter localization using range only measurements considering geometrical constraints. , 2012, , .		0
26	On Information Resolution of Radar Systems. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 3084-3102.	4.7	35
27	An Automatic On-Site Fire Ant Screening System. , 2012, , .		0
28	Parametric Manifold of an Object under Different Viewing Directions. Lecture Notes in Computer Science, 2012, , 186-199.	1.3	2
29	Tracking and Localizing Moving Targets in the Presence of Phase Measurement Ambiguities. IEEE Transactions on Signal Processing, 2011, 59, 3514-3525.	5.3	15
30	Target tracking and localization with ambiguous phase measurements of sensor networks. , 2011, , .		1
31	Optimal Nonlinear Estimation for Localization of Wireless Sensor Networks. IEEE Transactions on Signal Processing, 2011, 59, 5674-5685.	5.3	19
32	Real-Time Discriminative Background Subtraction. IEEE Transactions on Image Processing, 2011, 20, 1401-1414.	9.8	86
33	High-Order Circular Derivative Pattern for Image Representation and Recognition. , 2010, , .		1
34	Primitive-based 3D structure inference from a single 2D image for insect modeling: Towards an electronic field guide for insect identification. , 2010, , .		5
35	Colour Adjustment and Specular Removal for Non-uniform Shape from Shading. , 2010, , .		2
36	The Application of Remote Sensing for Detecting Mass Graves: An Experimental Animal Case Study from Costa Rica*. Journal of Forensic Sciences, 2009, 54, 159-166.	1.6	50

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37	Structural and view-specific representations for the categorization of three-dimensional objects. Vision Research, 2008, 48, 2501-2508.	1.4	1
38	A Simple WordNet-Ontology Based Email Retrieval System for Digital Forensics. Lecture Notes in Computer Science, 2008, , 217-228.	1.3	0
39	On Automatic Absorption Detection for Imaging Spectroscopy: A Comparative Study. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 3827-3844.	6.3	23
40	Bayesian stereo matching. Computer Vision and Image Understanding, 2007, 106, 85-96.	4.7	17
41	Ecological fingerprinting of ecosystem succession: Estimating secondary tropical dry forest structure and diversity using imaging spectroscopy. Remote Sensing of Environment, 2007, 108, 82-96.	11.0	110
42	Hyperspectral discrimination of tropical dry forest lianas and trees: Comparative data reduction approaches at the leaf and canopy levels. Remote Sensing of Environment, 2007, 109, 406-415.	11.0	110
43	Knowledge Transfer in Semi-automatic Image Interpretation. Lecture Notes in Computer Science, 2007, , 1028-1034.	1.3	1
44	An Online Discriminative Approach to Background Subtraction. , 2006, , .		8
45	Using Coupled Hidden Markov Models to Model Suspect Interactions in Digital Forensic Analysis. , 2006, , .		13
46	Graphical Models and Point Pattern Matching. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1646-1663.	13.9	104
47	Component optimization for image understanding: a Bayesian approach. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 684-693.	13.9	12
48	Prediction of wolf (Canis lupus) kill-sites using hidden Markov models. Ecological Modelling, 2006, 197, 237-246.	2.5	64
49	Road tracking in aerial images based on human–computer interaction and Bayesian filtering. ISPRS Journal of Photogrammetry and Remote Sensing, 2006, 61, 108-124.	11.1	63
50	Approximating the problem, not the solution: An alternative view of point set matching. Pattern Recognition, 2006, 39, 552-561.	8.1	0
51	Robust thermal camera calibration and 3D mapping of object surface temperatures. , 2006, , .		27
52	3D Mapping of Surface Temperature Using Thermal Stereo. , 2006, , .		32
53	Approximating the Problem, not the Solution: An Alternative View of Point Set Matching. Lecture Notes in Computer Science, 2005, , 233-242.	1.3	O
54	Estimating leaf area index from satellite imagery using Bayesian networks. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 1866-1873.	6.3	54

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55	Graphical models for graph matching: Approximate models and optimal algorithms. Pattern Recognition Letters, 2005, 26, 339-346.	4.2	25
56	HIDDEN MARKOV MODELS FOR SPATIO-TEMPORAL PATTERN RECOGNITION., 2005, , 25-40.		1
57	INEXACT GRAPH MATCHING USING EIGEN-SUBSPACE PROJECTION CLUSTERING. International Journal of Pattern Recognition and Artificial Intelligence, 2004, 18, 329-354.	1.2	29
58	Analysis of movements and behavior of caribou (Rangifer tarandus) using hidden Markov models. Ecological Modelling, 2004, 173, 259-270.	2.5	82
59	Diagnostic tools for evaluating and updating hidden Markov models. Pattern Recognition, 2004, 37, 1325-1337.	8.1	7
60	Discrimination of lianas and trees with leaf-level hyperspectral data. Remote Sensing of Environment, 2004, 90, 353-372.	11.0	128
61	An eigenspace projection clustering method for inexact graph matching. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 515-519.	13.9	160
62	Development of configural 3D object recognition. Behavioural Brain Research, 2004, 149, 107-111.	2.2	36
63	An Optimal Probabilistic Graphical Model for Point Set Matching. Lecture Notes in Computer Science, 2004, , 162-170.	1.3	10
64	Towards a decision support system for health promotion in nursing. Journal of Advanced Nursing, 2003, 43, 170-180.	3.3	24
65	Entropy-based representation of image information. Pattern Recognition Letters, 2002, 23, 1391-1398.	4.2	20
66	Learning spatio-temporal relational structures. Applied Artificial Intelligence, 2001, 15, 707-722.	3.2	12
67	SHAPE TRACKING AND PRODUCTION USING HIDDEN MARKOV MODELS. International Journal of Pattern Recognition and Artificial Intelligence, 2001, 15, 197-221.	1.2	11
68	Complex Images and Complex Filters: A Unified Model for Encoding and Matching Shape and Colour. Lecture Notes in Computer Science, 2001, , 323-332.	1.3	2
69	On Learning the Shape of Complex Actions. Lecture Notes in Computer Science, 2001, , 24-39.	1.3	9
70	Learning Complex Action Patterns with CRGST. Lecture Notes in Computer Science, 2001, , 282-291.	1.3	1
71	On the Learning of Complex Movement Sequences. Lecture Notes in Computer Science, 2001, , 463-472.	1.3	0
72	Invariance Signatures: Characterizing Contours by Their Departures from Invariance. Computer Vision and Image Understanding, 2000, 77, 284-316.	4.7	18

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73	Learning Task-Specific Object Recognition and Scene Understanding. Computer Vision and Image Understanding, 2000, 80, 315-348.	4.7	6
74	A model-based neural network for edge characterization. Pattern Recognition, 2000, 33, 427-444.	8.1	13
75	Object recognition and image understanding: Theories of Everything?. Spatial Vision, 2000, 13, 129-135.	1.4	39
76	Learning paradigms for image interpretation. Spatial Vision, 2000, 13, 305-314.	1.4	1
77	Theory of spatiochromatic image encoding and feature extraction. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2000, 17, 1744.	1.5	21
78	Parallel Techniques for Rule-Based Scene Interpretation. Lecture Notes in Computer Science, 2000, , 318-326.	1.3	0
79	A relational learning method for pattern and object recognition. Image and Vision Computing, 1999, 17, 391-401.	4.5	5
80	Interactively Matching Hand-Drawings Using Induction. Computer Vision and Image Understanding, 1999, 73, 391-403.	4.7	4
81	3D Shape Matching and Inspection Using Geometric Features and Relational Learning. Computer Vision and Image Understanding, 1998, 72, 340-350.	4.7	5
82	Neural computations of algebraic and geometrical structures. Neural Networks, 1998, 11, 699-707.	5.9	2
83	Extracting Common Subtrees from Decision Trees. International Journal of Pattern Recognition and Artificial Intelligence, 1998, 12, 867-879.	1.2	1
84	Integrating numerical and syntactic learning models for pattern recognition. Lecture Notes in Computer Science, 1998, , 94-111.	1.3	0
85	Inducing complex spatial descriptions in two dimensional scenes. Lecture Notes in Computer Science, 1998, , 123-132.	1.3	0
86	The CLARET algorithm. Lecture Notes in Computer Science, 1998, , 407-408.	1.3	0
87	The Role of Machine Learning in Building Image Interpretation Systems. International Journal of Pattern Recognition and Artificial Intelligence, 1997, 11, 143-168.	1.2	3
88	Learning to Recognize 3D Objects using Sparse Depth and Intensity Information. International Journal of Pattern Recognition and Artificial Intelligence, 1997, 11, 909-931.	1.2	9
89	Application of partial modeling techniques for texture segmentation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 2924.	1.5	4
90	Cite – A trainable image annotation system. Pattern Recognition Letters, 1997, 18, 1247-1252.	4.2	2

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91	Region-Based Coding of Color Images Using Karhunen–Loeve Transform. Graphical Models, 1997, 59, 27-38.	1.3	16
92	Evidence-Based Pattern Classification: A Structural Approach to Human Perceptual Learning and Generalization. Journal of Mathematical Psychology, 1997, 41, 244-259.	1.8	38
93	Machine Learning and Image Interpretation. , 1997, , .		40
94	Citeâ€"Scene Understanding and Object Recognition. , 1997, , 119-187.		5
95	Adaptive curvature-based topography for learning symbolic descriptions of terrain maps. Lecture Notes in Computer Science, 1997, , 282-289.	1.3	0
96	On Learning spatio-temporal relational structures in two different domains. Lecture Notes in Computer Science, 1997, , 551-558.	1.3	1
97	THE ROLE OF MACHINE LEARNING IN BUILDING IMAGE INTERPRETATION SYSTEMS. Series in Machine Perception and Artificial Intelligence, 1997, , 143-168.	0.1	1
98	Recognition-by-parts: a computational approach to human learning and generalization of shapes. Biological Cybernetics, 1996, 74, 521-535.	1.3	6
99	A concurrent, hierarchical approach to symbolic dynamic scene interpretation. Pattern Recognition, 1996, 29, 1891-1903.	8.1	11
100	Using gabor filters to measure the physical parameters of lines. Pattern Recognition, 1996, 29, 615-625.	8.1	12
101	Generalization of form in visual pattern classification. Spatial Vision, 1996, 10, 59-85.	1.4	8
102	Machine learning paradigms for pattern recognition and image understanding. Spatial Vision, 1996, 10, 87-103.	1.4	30
103	Recognition-by-parts: a computational approach to human learning and generalization of shapes. Biological Cybernetics, 1996, 74, 521-535.	1.3	0
104	Estimating the Parameters of an Illumination Model Using Photometric Stereo. Graphical Models, 1995, 57, 365-388.	1.3	43
105	Learning how to find patterns or objects in complex scenes. Lecture Notes in Computer Science, 1995, , 287-292.	1.3	1
106	Computational approaches to human pattern recognition. Spatial Vision, 1994, 8, 57-76.	1.4	1
107	Learning relational structures: Applications in computer vision. Applied Intelligence, 1994, 4, 257-268.	5.3	1
108	Inverting an Illumination Model from Range and Intensity Maps. CVGIP Image Understanding, 1994, 59, 183-201.	1.3	44

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109	Rulegraphs for graph matching in pattern recognition. Pattern Recognition, 1994, 27, 1231-1247.	8.1	37
110	Variations on the evidence-based object recognition theme. Pattern Recognition, 1994, 27, 185-204.	8.1	51
111	Probabilistic analysis of human supervised learning and classification. Vision Research, 1994, 34, 669-687.	1.4	58
112	Learning structural descriptions of patterns: A new technique for conditional clustering and rule generation. Pattern Recognition, 1994, 27, 689-697.	8.1	40
113	Image Encoding, Labeling, and Reconstruction from Differential Geometry. Graphical Models, 1993, 55, 428-446.	0.6	42
114	An improved rule generation method for evidence-based classification systems. Pattern Recognition, 1993, 26, 733-740.	8.1	15
115	On the classification of image regions by colour, texture and shape. Pattern Recognition, 1993, 26, 461-470.	8.1	137
116	Texture classification and segmentation algorithms in man and machines. Spatial Vision, 1993, 7, 277-292.	1.4	8
117	A General Correspondence Approach to Apparent Motion. Perception, 1993, 22, 185-192.	1.2	70
118	ASPECTS OF INVARIANT PATTERN AND OBJECT RECOGNITION. , 1992, , 234-247.		0
119	Invariant pattern recognition using multiple filter image representations. Computer Vision, Graphics, and Image Processing, 1989, 45, 251-262.	1.0	20
120	Visual phase resolution for gray-scale textures. Perception & Psychophysics, 1988, 43, 319-325.	2.3	5
121	On the minimum number of templates required for shift, rotation and size invariant pattern recognition. Pattern Recognition, 1988, 21, 205-216.	8.1	48
122	A sequential adaptive recursive filter for image restoration. Computer Vision, Graphics, and Image Processing, 1988, 44, 332-349.	1.0	3
123	Parsing scale-space and spatial stability analysis. Computer Vision, Graphics, and Image Processing, 1988, 42, 192-205.	1.0	47
124	On the discrimination of compound Gabor signals and textures. Vision Research, 1988, 28, 279-291.	1.4	39
125	Some task and signal dependent rules for spatial vision. Spatial Vision, 1987, 2, 295-315.	1.4	16
126	On the detection of signals in non-white noise. Spatial Vision, 1987, 2, 1-12.	1.4	1

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127	Is pattern masking predicted by the cross-correlation between signal and mask?. Vision Research, 1987, 27, 1319-1326.	1.4	7
128	Localization of signals in images. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1987, 4, 2274.	1.5	3
129	Fast edge-only matching techniques for robot pattern recognition. Computer Vision, Graphics, and Image Processing, 1987, 39, 131-143.	1.0	14
130	Visual pattern recognition in humans. Biological Cybernetics, 1987, 57, 233-240.	1.3	23
131	Cross-correlation model for pattern acuity. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1986, 3, 1948.	1.5	7
132	Digital image-processing techniques for the display of images and modeling of visual perception. Behavior Research Methods, 1986, 18, 493-506.	1.3	2
133	On the detection of signals embedded in natural scenes. Perception & Psychophysics, 1986, 39, 87-95.	2.3	35
134	On the extraction and alignment of image edges. Spatial Vision, 1986, 1, 205-217.	1.4	4
135	What is Perceived When Two Images are Combined?. Perception, 1985, 14, 41-48.	1.2	15
136	Recognition of Vector Patterns under Transformations: Local and Global Determinants. Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology, 1985, 37, 1-23.	2.3	14
137	The detection of phase shifts in two-dimensional images. Perception & Psychophysics, 1985, 37, 536-542.	2.3	7
138	Three processing characteristics of visual texture segmentation. Spatial Vision, 1985, 1, 19-30.	1.4	115
139	On the detection of Gabor signals and discrimination of Gabor textures. Vision Research, 1985, 25, 671-684.	1.4	56
140	Orientation-position coding and invariance characteristics of pattern discrimination. Perception & Psychophysics, 1984, 36, 159-168.	2.3	18
141	On the Number of Intensity Levels Discriminated in Textures. Perception, 1984, 13, 21-31.	1.2	3
142	The Waggon-Wheel Effect. Perception, 1984, 13, 237-237.	1.2	24
143	Energy processing characteristics of spatial vision: The spectral characteristics of perceptive fields. Australian Journal of Psychology, 1984, 36, 1-19.	2.8	1
144	Energy processing and coding factors in texture discrimination and image processing. Perception & Psychophysics, 1983, 34, 349-355.	2.3	15

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145	On the efficient two-dimensional energy coding characteristics of spatial vision. Vision Research, 1983, 23, 1053-1055.	1.4	11
146	Probing the spatial frequency spectrum for orientation sensitivity in stochastic textures. Vision Research, 1983, 23, 39-45.	1.4	14
147	Discrimination thresholds in the two-dimensional spatial frequency domain. Vision Research, 1983, 23, 129-133.	1.4	90
148	Coding images in the frequency domain: Filter design and energy processing characteristics of the human visual system. IEEE Transactions on Systems, Man, and Cybernetics, 1983, SMC-13, 1018-1021.	0.9	9
149	Universal coding and network structures for vision: Is Grossberg correct?. Behavioral and Brain Sciences, 1983, 6, 660.	0.7	0
150	Visual sensitivity to two-dimensional spatial phase. Journal of the Optical Society of America, 1982, 72, 1375.	1.2	39
151	Does Welding Affect Visual Acuities or Color Sensitivity?. Human Factors, 1982, 24, 115-119.	3.5	1
152	On the limits of perceptual complementarity in the kinetic depth effect. Perception & Psychophysics, 1982, 31, 437-445.	2.3	6
153	On discriminating visual textures and images. Perception & Psychophysics, 1982, 31, 149-159.	2.3	45
154	The discrimination of structure in vectorgraphs: Local and global effects. Perception & Psychophysics, 1982, 32, 314-326.	2.3	24
155	A response to Yellott and Ahumada's review of "visual perception: Theory and practice―by Terry Caelli. Journal of Mathematical Psychology, 1982, 25, 185.	1.8	0
156	CONTRAST SENSITIVITY IN DIABETICS WITH RETINOPATHY AND CATARACT. Australian Journal of Ophthalmology, 1982, 10, 173-178.	0.1	30
157	Intensity, Spatial Frequency, and Temporal Frequency Determinants of Apparent Motion: Korte Revisited. Perception, 1981, 10, 183-189.	1.2	19
158	On the spatio-temporal determinants of some motion effects. Acta Psychologica, 1981, 48, 175-185.	1.5	3
159	The Perception of Motion., 1981,, 147-171.		0
160	Introduction to Geometric Structures. , 1981, , 71-100.		0
161	Introduction: Languages, Processes, and Perception. , 1981, , 1-5.		0
162	Spatial Vision. , 1981, , 103-146.		1

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163	On generating spatial configurations with identical interpoint distance distributions. Lecture Notes in Mathematics, 1980, , 69-75.	0.2	2
164	On Difficulties in Localizing Ambulance Sirens. Human Factors, 1980, 22, 719-724.	3.5	20
165	On the perception of some geometric properties of rotating three dimensional objects. Biological Cybernetics, 1979, 33, 29-37.	1.3	7
166	Psychophysical evidence for global feature processing in visual texture discrimination. Journal of the Optical Society of America, 1979, 69, 675.	1.2	50
167	Frequency, Phase, and Colour Coding in Apparent Motion. Perception, 1979, 8, 59-68.	1.2	22
168	On the Limits of Fourier Decompositions in Visual Texture Perception. Perception, 1979, 8, 69-73.	1.2	78
169	Frequency, Phase, and Colour Coding in Apparent Motion: 2. Perception, 1979, 8, 595-602.	1.2	16
170	On perceptual analyzers underlying visual texture discrimination: Part I. Biological Cybernetics, 1978, 28, 167-175.	1.3	160
171	On perceptual analyzers underlying visual texture discrimination: Part II. Biological Cybernetics, 1978, 29, 201-214.	1.3	129
172	Constant curvature Riemannian scaling. Journal of Mathematical Psychology, 1978, 17, 89-109.	1.8	35
173	Implications of spatial summation models for processes of contour perception: a geometric perspective. Vision Research, 1978, 18, 723-734.	1.4	27
174	Subjective Lorentz transformations and the perception of motion*. Journal of the Optical Society of America, 1978, 68, 402.	1.2	108
175	Frequency and orientation interactions in the mccollough effect: Interchannel effects?. Australian Journal of Psychology, 1977, 29, 185-193.	2.8	2
176	Is perceived length affected by interactions between orientation detectors?. Vision Research, 1977, 17, 837-841.	1.4	17
177	Interpolation in the visual system. Vision Research, 1976, 16, 1055-1060.	1.4	21