

Garrison W Cottrell

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

8,216
citations

147801

31
h-index

91884

69
g-index

114
all docs

114
docs citations

114
times ranked

7591
citing authors

#	ARTICLE	IF	CITATIONS
1	SUN: A Bayesian framework for saliency using natural statistics. <i>Journal of Vision</i> , 2008, 8, 32.	0.3	1,003
2	Understanding Convolution for Semantic Segmentation. , 2018, , .		1,003
3	Early lateralization and orientation tuning for face, word, and object processing in the visual cortex. <i>NeuroImage</i> , 2003, 20, 1609-1624.	4.2	678
4	A Dual-Stage Attention-Based Recurrent Neural Network for Time Series Prediction. , 2017, , .		603
5	Transmitting and Decoding Facial Expressions. <i>Psychological Science</i> , 2005, 16, 184-189.	3.3	585
6	Two Fixations Suffice in Face Recognition. <i>Psychological Science</i> , 2008, 19, 998-1006.	3.3	346
7	Connectionist models of face processing: A survey. <i>Pattern Recognition</i> , 1994, 27, 1209-1230.	8.1	309
8	Color-to-Grayscale: Does the Method Matter in Image Recognition?. <i>PLoS ONE</i> , 2012, 7, e29740.	2.5	240
9	Fusion Via a Linear Combination of Scores. <i>Information Retrieval</i> , 1999, 1, 151-173.	2.0	232
10	SUN: Top-down saliency using natural statistics. <i>Visual Cognition</i> , 2009, 17, 979-1003.	1.6	230
11	EMPATH: A Neural Network that Categorizes Facial Expressions. <i>Journal of Cognitive Neuroscience</i> , 2002, 14, 1158-1173.	2.3	196
12	Evidence and a computational explanation of cultural differences in facial expression recognition.. <i>Emotion</i> , 2010, 10, 874-893.	1.8	139
13	Learning grammatical structure with Echo State Networks. <i>Neural Networks</i> , 2007, 20, 424-432.	5.9	135
14	Robust classification of objects, faces, and flowers using natural image statistics. , 2010, , .		132
15	NPClassifier: A Deep Neural Network-Based Structural Classification Tool for Natural Products. <i>Journal of Natural Products</i> , 2021, 84, 2795-2807.	3.0	131
16	A Convolutional Neural Network-Based Approach for the Rapid Annotation of Molecularly Diverse Natural Products. <i>Journal of the American Chemical Society</i> , 2020, 142, 4114-4120.	13.7	114
17	Experience Matters. <i>Psychological Science</i> , 2010, 21, 960-969.	3.3	91
18	Not All Visual Expertise Is Holistic, but It May Be Leftist. <i>Psychological Science</i> , 2009, 20, 455-463.	3.3	86

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19	Automatic Combination of Multiple Ranked Retrieval Systems. , 1994, , 173-181.		77
20	Predicting the performance of linearly combined IR systems. , 1998, , .		73
21	Autofocus Layer for Semantic Segmentation. Lecture Notes in Computer Science, 2018, , 603-611.	1.3	72
22	Observed, Executed, and Imagined Action Representations can be Decoded From Ventral and Dorsal Areas. Cerebral Cortex, 2015, 25, 3144-3158.	2.9	71
23	Small Molecule Accurate Recognition Technology (SMART) to Enhance Natural Products Research. Scientific Reports, 2017, 7, 14243.	3.3	67
24	Content and cluster analysis: Assessing representational similarity in neural systems. Philosophical Psychology, 2000, 13, 47-76.	0.9	66
25	Humans have idiosyncratic and task-specific scanpaths for judging faces. Vision Research, 2015, 108, 67-76.	1.4	66
26	DeePr-ESN: A deep projection-encoding echo-state network. Information Sciences, 2020, 511, 152-171.	6.9	61
27	Visual saliency model for robot cameras. , 2008, , .		59
28	Skeleton Key: Image Captioning by Skeleton-Attribute Decomposition. , 2017, , .		57
29	Function of identified interneurons in the leech elucidated using neural networks trained by back-propagation. Nature, 1989, 340, 468-471.	27.8	54
30	Hierarchical Cellular Automata for Visual Saliency. International Journal of Computer Vision, 2018, 126, 751-770.	15.6	54
31	Principal Components Analysis Of Images Via Back Propagation. Proceedings of SPIE, 1988, 1001, 1070.	0.8	53
32	Cognitive Binding: A Computational-Modeling Analysis of a Distinction between Implicit and Explicit Memory. Journal of Cognitive Neuroscience, 1992, 4, 289-298.	2.3	51
33	Learning Simple Arithmetic Procedures. Connection Science, 1993, 5, 37-58.	3.0	48
34	Imaging Reveals Synaptic Targets of a Swim-Terminating Neuron in the Leech CNS. Journal of Neuroscience, 2003, 23, 11402-11410.	3.6	45
35	Latent semantic indexing is an optimal special case of multidimensional scaling. , 1992, , .		43
36	End-to-End Incomplete Time-Series Modeling From Linear Memory of Latent Variables. IEEE Transactions on Cybernetics, 2020, 50, 4908-4920.	9.5	43

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37	Substructure Vibration NARX Neural Network Approach for Statistical Damage Inference. Journal of Engineering Mechanics - ASCE, 2013, 139, 737-747.	2.9	40
38	Acquiring the Mapping from Meaning to Sounds. Connection Science, 1994, 6, 379-412.	3.0	36
39	Analysis of Oscillations in a Reciprocally Inhibitory Network with Synaptic Depression. Neural Computation, 2002, 14, 561-581.	2.2	36
40	A probabilistic model of eye movements in concept formation. Neurocomputing, 2007, 70, 2256-2272.	5.9	31
41	Predicting an observer's task using multi-fixation pattern analysis. , 2014, , .		31
42	Early selection of diagnostic facial information in the human visual cortex. Vision Research, 2006, 46, 800-813.	1.4	28
43	Central and peripheral vision for scene recognition: A neurocomputational modeling exploration. Journal of Vision, 2017, 17, 9.	0.3	28
44	Representing documents using an explicit model of their similarities. Journal of the Association for Information Science and Technology, 1995, 46, 254-271.	1.0	27
45	Why is the fusiform face area recruited for novel categories of expertise? A neurocomputational investigation. Brain Research, 2008, 1202, 14-24.	2.2	27
46	Gamma-SLAM: Using stereo vision and variance grid maps for SLAM in unstructured environments. , 2008, , .		27
47	Adversarial Joint-Learning Recurrent Neural Network for Incomplete Time Series Classification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1765-1776.	13.9	27
48	COMPUTER SCIENCE: New Life for Neural Networks. Science, 2006, 313, 454-455.	12.6	26
49	The ventral striatum dissociates information expectation, reward anticipation, and reward receipt. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15200-15208.	7.1	26
50	Experience with selecting exemplars from clean data. Neural Networks, 1996, 9, 273-294.	5.9	24
51	Convergence of the Visual Field Split: Hemispheric Modeling of Face and Object Recognition. Journal of Cognitive Neuroscience, 2008, 20, 2298-2307.	2.3	24
52	Event-Specific Image Importance. , 2016, , .		24
53	Extracting features from faces using compression networks: Face, identity, emotion, and gender recognition using holons. , 1991, , 328-337.		23
54	Time series classification with Echo Memory Networks. Neural Networks, 2019, 117, 225-239.	5.9	23

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55	A Connectionist Simulation of the Empirical Acquisition of Grammatical Relations. Lecture Notes in Computer Science, 2000, , 175-193.	1.3	23
56	Pagoamide A, a Cyclic Depsipeptide Isolated from a Cultured Marine Chlorophyte, Derbesia sp., Using MS/MS-Based Molecular Networking. Journal of Natural Products, 2020, 83, 617-625.	3.0	22
57	Optimizing similarity using multi-query relevance feedback. Journal of the Association for Information Science and Technology, 1998, 49, 742-761.	1.0	19
58	A Model of Lexical Access of Ambiguous Words. , 1988, , 179-194.		19
59	The roles of visual expertise and visual input in the face inversion effect: Behavioral and neurocomputational evidence. Vision Research, 2008, 48, 703-715.	1.4	18
60	Are Face and Object Recognition Independent? A Neurocomputational Modeling Exploration. Journal of Cognitive Neuroscience, 2016, 28, 558-574.	2.3	17
61	A model of the leech segmental swim central pattern generator. Neurocomputing, 2000, 32-33, 573-584.	5.9	16
62	NIMBLE: A kernel density model of saccade-based visual memory. Journal of Vision, 2008, 8, 17-17.	0.3	15
63	Gamma-€SLAM: Visual SLAM in unstructured environments using variance grid maps. Journal of Field Robotics, 2009, 26, 26-51.	6.0	15
64	Deep active object recognition by joint label and action prediction. Computer Vision and Image Understanding, 2017, 156, 128-137.	4.7	15
65	FlgLib & SmokeyNet: Dataset and Deep Learning Model for Real-Time Wildland Fire Smoke Detection. Remote Sensing, 2022, 14, 1007.	4.0	14
66	Speech Recognition and Multi-Speaker Diarization of Long Conversations. , 0, , .		13
67	What Evidence Supports Special Processing for Faces? A Cautionary Tale for fMRI Interpretation. Journal of Cognitive Neuroscience, 2013, 25, 1777-1793.	2.3	12
68	Hemispheric Asymmetry in Perception: A Differential Encoding Account. Journal of Cognitive Neuroscience, 2013, 25, 998-1007.	2.3	12
69	Modeling Perceptual Expertise. , 2009, , 197-244.		11
70	WALKING WALKing walking: Action Recognition from Action Echoes. , 2017, , .		11
71	An examination of simultaneous lineup identification decision processes using eye tracking. Applied Cognitive Psychology, 2011, 25, 443-451.	1.6	10
72	Triple-Shapelet Networks for Time Series Classification. , 2019, , .		10

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73	SMARTâ€Miner: A convolutional neural networkâ€based metabolite identification from ¹³ C HSQC spectra. Magnetic Resonance in Chemistry, 2022, 60, 1070-1075.	1.9	10
74	Color Constancy Algorithms for Object and Face Recognition. Lecture Notes in Computer Science, 2010, , 199-210.	1.3	9
75	DynamicRec. , 2020, , .		9
76	Learning to see faces like humans: modeling the social dimensions of faces. Journal of Vision, 2017, 17, 837.	0.3	8
77	A Connectionist Perspective on Prosodic Structure. Proceedings of the Annual Meeting of the Berkeley Linguistics Society, 0, 15, 114.	0.0	8
78	Recognizing and Curating Photo Albums via Event-Specific Image Importance. , 2017, , .		8
79	Looking around the backyard helps to recognize faces and digits. , 2008, , .		6
80	Bikers Are Like Tobacco Shops, Formal Dressers Are Like Suits: Recognizing Urban Tribes with Caffè. , 2015, , .		6
81	Belief tree search for active object recognition. , 2017, , .		6
82	Towards Instructable Connectionist Systems. , 1995, , 187-221.		5
83	Tau Net a neural network for modeling temporal variability. Neurocomputing, 1997, 15, 249-271.	5.9	5
84	Neurocomputational Models of Face Processing. , 2011, , .		5
85	From symbols to neurons: Are we there yet?. Behavioral and Brain Sciences, 1993, 16, 454-454.	0.7	4
86	User Lenses â€” Achieving 100% Precision on Frequently Asked Questions. CISM International Centre for Mechanical Sciences, Courses and Lectures, 1999, , 87-96.	0.6	4
87	LEARNING IN RECURRENT FINITE DIFFERENCE NETWORKS. International Journal of Neural Systems, 1995, 06, 249-256.	5.2	3
88	Chapter 10 Prosopagnosia in modular neural network models. Progress in Brain Research, 1999, 121, 165-184.	1.4	3
89	Representing documents using an explicit model of their similarities. , 1995, 46, 254.		3
90	Dynamic rate adaptation. Artificial Intelligence Review, 1993, 7, 271-283.	15.7	2

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91	Toward connectionist semantics. , 1987, , .		2
92	Parallel Dog Processing: Explorations in the Nanostructure of Dognition. Connection Science, 1989, 1, 219-220.	3.0	1
93	New Directions in Connectionist Dog Modeling. Connection Science, 1991, 3, 89-90.	3.0	1
94	A connectionist approach to rate adaptation. ACM SIGART Bulletin, 1994, 5, 29-35.	0.5	1
95	Phase space learning in an autonomous dynamical neural network. Neurocomputing, 2006, 69, 2340-2345.	5.9	1
96	The Connectionist Air Guitar: A Dream Come True. Connection Science, 1989, 1, 413-414.	3.0	0
97	From PDP to NDP through LFG:. Journal of Pragmatics, 1989, 13, 1025-1026.	1.5	0
98	Research Note: A Hybrid Model of the Intentional Behavior of the Dog. Connection Science, 1989, 1, 341-342.	3.0	0
99	Understanding Dogs and Dognition: a New Foundation for Design. Connection Science, 1990, 2, 251-252.	3.0	0
100	On the Epistemological Status of Dog Breath, or Will the Real Qualia Please Stand Up?: A Reply to Sirloin. Connection Science, 1990, 2, 371-372.	3.0	0
101	Jimi Hendrix meets the Giant Screaming Buddha: Recreating the Sixties via Backpropagation in Time. Connection Science, 1992, 4, 155-156.	3.0	0
102	Approaches to the Inverse Dogmatics Problem: Time for a Return to Localist Networks?. Connection Science, 1993, 5, 95-97.	3.0	0
103	Modeling the Sequential Behavior of the Dog: The Second Naive Dog Physics Manifesto. Connection Science, 1993, 5, 189-190.	3.0	0
104	Programming the User-friendly Dog. Connection Science, 1995, 7, 341-342.	3.0	0
105	HUMOUR: Degenerative Grammar: The Story of Outa. Connection Science, 1996, 8, 153-154.	3.0	0
106	Churchland on Connectionism. , 2005, , 113-153.		0
107	Patchy Connectivity and Visual Processing Asymmetries: A Neurodevelopmental Hypothesis. , 2016, , .		0
108	Transfer of Expertise in Deep Neural Networks. Journal of Vision, 2019, 19, 26.	0.3	0

#	ARTICLE	IF	CITATIONS
109	Generalization in Cardiac Image Segmentation. , 2021, , .		0