

# Garrison W Cottrell

## List of Publications by Year in descending order

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109  
papers

8,216  
citations

168829

31  
h-index

104191

69  
g-index

114  
all docs

114  
docs citations

114  
times ranked

8628  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adversarial Joint-Learning Recurrent Neural Network for Incomplete Time Series Classification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1765-1776.	9.7	27
2	FlgLib & SmokeyNet: Dataset and Deep Learning Model for Real-Time Wildland Fire Smoke Detection. Remote Sensing, 2022, 14, 1007.	1.8	14
3	SMART- <sup>1</sup> Miner: A convolutional neural network-based metabolite identification from <sup>13</sup> C HSQC spectra. Magnetic Resonance in Chemistry, 2022, 60, 1070-1075.	1.1	10
4	NPClassifier: A Deep Neural Network-Based Structural Classification Tool for Natural Products. Journal of Natural Products, 2021, 84, 2795-2807.	1.5	131
5	Generalization in Cardiac Image Segmentation. , 2021, , .		0
6	End-to-End Incomplete Time-Series Modeling From Linear Memory of Latent Variables. IEEE Transactions on Cybernetics, 2020, 50, 4908-4920.	6.2	43
7	DeePr-ESN: A deep projection-encoding echo-state network. Information Sciences, 2020, 511, 152-171.	4.0	61
8	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.	1.5	22
9	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.	3.3	26
10	A Convolutional Neural Network-Based Approach for the Rapid Annotation of Molecularly Diverse Natural Products. Journal of the American Chemical Society, 2020, 142, 4114-4120.	6.6	114
11	DynamicRec. , 2020, , .		9
12	Time series classification with Echo Memory Networks. Neural Networks, 2019, 117, 225-239.	3.3	23
13	Triple-Shapelet Networks for Time Series Classification. , 2019, , .		10
14	Transfer of Expertise in Deep Neural Networks. Journal of Vision, 2019, 19, 26.	0.1	0
15	Hierarchical Cellular Automata for Visual Saliency. International Journal of Computer Vision, 2018, 126, 751-770.	10.9	54
16	Autofocus Layer for Semantic Segmentation. Lecture Notes in Computer Science, 2018, , 603-611.	1.0	72
17	Understanding Convolution for Semantic Segmentation. , 2018, , .		1,003
18	Small Molecule Accurate Recognition Technology (SMART) to Enhance Natural Products Research. Scientific Reports, 2017, 7, 14243.	1.6	67

#	ARTICLE	IF	CITATIONS
19	Deep active object recognition by joint label and action prediction. Computer Vision and Image Understanding, 2017, 156, 128-137.	3.0	15
20	Belief tree search for active object recognition. , 2017, , .		6
21	Skeleton Key: Image Captioning by Skeleton-Attribute Decomposition. , 2017, , .		57
22	Central and peripheral vision for scene recognition: A neurocomputational modeling exploration. Journal of Vision, 2017, 17, 9.	0.1	28
23	Learning to see faces like humans: modeling the social dimensions of faces. Journal of Vision, 2017, 17, 837.	0.1	8
24	WALKING WALKing walking: Action Recognition from Action Echoes. , 2017, , .		11
25	A Dual-Stage Attention-Based Recurrent Neural Network for Time Series Prediction. , 2017, , .		603
26	Recognizing and Curating Photo Albums via Event-Specific Image Importance. , 2017, , .		8
27	Event-Specific Image Importance. , 2016, , .		24
28	Patchy Connectivity and Visual Processing Asymmetries: A Neurodevelopmental Hypothesis. , 2016, , .		0
29	Are Face and Object Recognition Independent? A Neurocomputational Modeling Exploration. Journal of Cognitive Neuroscience, 2016, 28, 558-574.	1.1	17
30	Bikers Are Like Tobacco Shops, Formal Dressers Are Like Suits: Recognizing Urban Tribes with Caffe. , 2015, , .		6
31	Humans have idiosyncratic and task-specific scanpaths for judging faces. Vision Research, 2015, 108, 67-76.	0.7	66
32	Observed, Executed, and Imagined Action Representations can be Decoded From Ventral and Dorsal Areas. Cerebral Cortex, 2015, 25, 3144-3158.	1.6	71
33	Predicting an observer's task using multi-fixation pattern analysis. , 2014, , .		31
34	What Evidence Supports Special Processing for Faces? A Cautionary Tale for fMRI Interpretation. Journal of Cognitive Neuroscience, 2013, 25, 1777-1793.	1.1	12
35	Substructure Vibration NARX Neural Network Approach for Statistical Damage Inference. Journal of Engineering Mechanics - ASCE, 2013, 139, 737-747.	1.6	40
36	Hemispheric Asymmetry in Perception: A Differential Encoding Account. Journal of Cognitive Neuroscience, 2013, 25, 998-1007.	1.1	12

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37	Color-to-Grayscale: Does the Method Matter in Image Recognition?. PLoS ONE, 2012, 7, e29740.	1.1	240
38	An examination of simultaneous lineup identification decision processes using eye tracking. Applied Cognitive Psychology, 2011, 25, 443-451.	0.9	10
39	Neurocomputational Models of Face Processing. , 2011, , .		5
40	Evidence and a computational explanation of cultural differences in facial expression recognition.. Emotion, 2010, 10, 874-893.	1.5	139
41	Color Constancy Algorithms for Object and Face Recognition. Lecture Notes in Computer Science, 2010, , 199-210.	1.0	9
42	Experience Matters. Psychological Science, 2010, 21, 960-969.	1.8	91
43	Robust classification of objects, faces, and flowers using natural image statistics. , 2010, , .		132
44	SUN: Top-down saliency using natural statistics. Visual Cognition, 2009, 17, 979-1003.	0.9	230
45	Not All Visual Expertise Is Holistic, but It May Be Leftist. Psychological Science, 2009, 20, 455-463.	1.8	86
46	Gamma-SLAM: Visual SLAM in unstructured environments using variance grid maps. Journal of Field Robotics, 2009, 26, 26-51.	3.2	15
47	Modeling Perceptual Expertise. , 2009, , 197-244.		11
48	The roles of visual expertise and visual input in the face inversion effect: Behavioral and neurocomputational evidence. Vision Research, 2008, 48, 703-715.	0.7	18
49	Why is the fusiform face area recruited for novel categories of expertise? A neurocomputational investigation. Brain Research, 2008, 1202, 14-24.	1.1	27
50	SUN: A Bayesian framework for saliency using natural statistics. Journal of Vision, 2008, 8, 32.	0.1	1,003
51	Gamma-SLAM: Using stereo vision and variance grid maps for SLAM in unstructured environments. , 2008, , .		27
52	Two Fixations Suffice in Face Recognition. Psychological Science, 2008, 19, 998-1006.	1.8	346
53	Looking around the backyard helps to recognize faces and digits. , 2008, , .		6
54	Visual saliency model for robot cameras. , 2008, , .		59

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55	NIMBLE: A kernel density model of saccade-based visual memory. <i>Journal of Vision</i> , 2008, 8, 17-17.	0.1	15
56	Convergence of the Visual Field Split: Hemispheric Modeling of Face and Object Recognition. <i>Journal of Cognitive Neuroscience</i> , 2008, 20, 2298-2307.	1.1	24
57	Learning grammatical structure with Echo State Networks. <i>Neural Networks</i> , 2007, 20, 424-432.	3.3	135
58	A probabilistic model of eye movements in concept formation. <i>Neurocomputing</i> , 2007, 70, 2256-2272.	3.5	31
59	COMPUTER SCIENCE: New Life for Neural Networks. <i>Science</i> , 2006, 313, 454-455.	6.0	26
60	Early selection of diagnostic facial information in the human visual cortex. <i>Vision Research</i> , 2006, 46, 800-813.	0.7	28
61	Phase space learning in an autonomous dynamical neural network. <i>Neurocomputing</i> , 2006, 69, 2340-2345.	3.5	1
62	Churchland on Connectionism. , 2005, , 113-153.		0
63	Transmitting and Decoding Facial Expressions. <i>Psychological Science</i> , 2005, 16, 184-189.	1.8	585
64	Early lateralization and orientation tuning for face, word, and object processing in the visual cortex. <i>NeuroImage</i> , 2003, 20, 1609-1624.	2.1	678
65	Imaging Reveals Synaptic Targets of a Swim-Terminating Neuron in the Leech CNS. <i>Journal of Neuroscience</i> , 2003, 23, 11402-11410.	1.7	45
66	EMPATH: A Neural Network that Categorizes Facial Expressions. <i>Journal of Cognitive Neuroscience</i> , 2002, 14, 1158-1173.	1.1	196
67	Analysis of Oscillations in a Reciprocally Inhibitory Network with Synaptic Depression. <i>Neural Computation</i> , 2002, 14, 561-581.	1.3	36
68	A model of the leech segmental swim central pattern generator. <i>Neurocomputing</i> , 2000, 32-33, 573-584.	3.5	16
69	Content and cluster analysis: Assessing representational similarity in neural systems. <i>Philosophical Psychology</i> , 2000, 13, 47-76.	0.5	66
70	A Connectionist Simulation of the Empirical Acquisition of Grammatical Relations. <i>Lecture Notes in Computer Science</i> , 2000, , 175-193.	1.0	23
71	Fusion Via a Linear Combination of Scores. <i>Information Retrieval</i> , 1999, 1, 151-173.	1.6	232
72	Chapter 10 Prosopagnosia in modular neural network models. <i>Progress in Brain Research</i> , 1999, 121, 165-184.	0.9	3

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73	User Lenses "Achieving 100% Precision on Frequently Asked Questions. CISM International Centre for Mechanical Sciences, Courses and Lectures, 1999, , 87-96.	0.3	4
74	Optimizing similarity using multi-query relevance feedback. Journal of the Association for Information Science and Technology, 1998, 49, 742-761.	1.2	19
75	Predicting the performance of linearly combined IR systems. , 1998, , .		73
76	Tau Net a neural network for modeling temporal variability. Neurocomputing, 1997, 15, 249-271.	3.5	5
77	HUMOUR: Degenerative Grammar: The Story of Outa. Connection Science, 1996, 8, 153-154.	1.8	0
78	Experience with selecting exemplars from clean data. Neural Networks, 1996, 9, 273-294.	3.3	24
79	Towards Instructable Connectionist Systems. , 1995, , 187-221.		5
80	Representing documents using an explicit model of their similarities. Journal of the Association for Information Science and Technology, 1995, 46, 254-271.	1.2	27
81	Programming the User-friendly Dog. Connection Science, 1995, 7, 341-342.	1.8	0
82	LEARNING IN RECURRENT FINITE DIFFERENCE NETWORKS. International Journal of Neural Systems, 1995, 06, 249-256.	3.2	3
83	Representing documents using an explicit model of their similarities. , 1995, 46, 254.		3
84	Acquiring the Mapping from Meaning to Sounds. Connection Science, 1994, 6, 379-412.	1.8	36
85	Connectionist models of face processing: A survey. Pattern Recognition, 1994, 27, 1209-1230.	5.1	309
86	A connectionist approach to rate adaptation. ACM SIGART Bulletin, 1994, 5, 29-35.	0.5	1
87	Automatic Combination of Multiple Ranked Retrieval Systems. , 1994, , 173-181.		77
88	Dynamic rate adaptation. Artificial Intelligence Review, 1993, 7, 271-283.	9.7	2
89	Approaches to the Inverse Dogmatics Problem: Time for a Return to Localist Networks?. Connection Science, 1993, 5, 95-97.	1.8	0
90	Modeling the Sequential Behavior of the Dog: The Second Naive Dog Physics Manifesto. Connection Science, 1993, 5, 189-190.	1.8	0

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91	Learning Simple Arithmetic Procedures. Connection Science, 1993, 5, 37-58.	1.8	48
92	From symbols to neurons: Are we there yet?. Behavioral and Brain Sciences, 1993, 16, 454-454.	0.4	4
93	Cognitive Binding: A Computational-Modeling Analysis of a Distinction between Implicit and Explicit Memory. Journal of Cognitive Neuroscience, 1992, 4, 289-298.	1.1	51
94	Latent semantic indexing is an optimal special case of multidimensional scaling. , 1992, , .		43
95	Jimi Hendrix meets the Giant Screaming Buddha: Recreating the Sixties via Backpropagation in Time. Connection Science, 1992, 4, 155-156.	1.8	0
96	Extracting features from faces using compression networks: Face, identity, emotion, and gender recognition using holons. , 1991, , 328-337.		23
97	New Directions in Connectionist Dog Modeling. Connection Science, 1991, 3, 89-90.	1.8	1
98	Understanding Dogs and Dognition: a New Foundation for Design. Connection Science, 1990, 2, 251-252.	1.8	0
99	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.	1.8	0
100	The Connectionist Air Guitar: A Dream Come True. Connection Science, 1989, 1, 413-414.	1.8	0
101	Function of identified interneurons in the leech elucidated using neural networks trained by back-propagation. Nature, 1989, 340, 468-471.	13.7	54
102	From PDP to NDP through LFG:. Journal of Pragmatics, 1989, 13, 1025-1026.	0.8	0
103	Parallel Dog Processing: Explorations in the Nanostructure of Dognition. Connection Science, 1989, 1, 219-220.	1.8	1
104	Research Note: A Hybrid Model of the Intentional Behavior of the Dog. Connection Science, 1989, 1, 341-342.	1.8	0
105	Principal Components Analysis Of Images Via Back Propagation. Proceedings of SPIE, 1988, 1001, 1070.	0.8	53
106	A Model of Lexical Access of Ambiguous Words. , 1988, , 179-194.		19
107	Toward connectionist semantics. , 1987, , .		2
108	A Connectionist Perspective on Prosodic Structure. Proceedings of the Annual Meeting of the Berkeley Linguistics Society, 0, 15, 114.	0.0	8

#	ARTICLE	IF	CITATIONS
109	Speech Recognition and Multi-Speaker Diarization of Long Conversations. , 0, , .		13