

# Tony J Prescott

## List of Publications by Year in descending order

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Version: 2024-02-01

196  
papers

7,921  
citations

76326

40  
h-index

58581

82  
g-index

206  
all docs

206  
docs citations

206  
times ranked

6072  
citing authors

#	ARTICLE	IF	CITATIONS
1	Scaffolding layered control architectures through constraint closure: insights into brain evolution and development. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, 20200519.	4.0	7
2	User perspectives on emotionally aligned social robots for older adults and persons living with dementia. <i>Journal of Rehabilitation and Assistive Technologies Engineering</i> , 2022, 9, 205566832211083.	0.9	5
3	Collinear Mecanum Drive: Modeling, Analysis, Partial Feedback Linearization, and Nonlinear Control. <i>IEEE Transactions on Robotics</i> , 2021, 37, 642-658.	10.3	3
4	Socially Assistive Robots as Mental Health Interventions for Children: A Scoping Review. <i>International Journal of Social Robotics</i> , 2021, 13, 919-935.	4.6	49
5	Are friends electric? The benefits and risks of human-robot relationships. <i>IScience</i> , 2021, 24, 101993.	4.1	37
6	The effect of direct and extended contact on attitudes towards social robots. <i>Heliyon</i> , 2021, 7, e06418.	3.2	8
7	Learning from sensory predictions for autonomous and adaptive exploration of object shape with a tactile robot. <i>Neurocomputing</i> , 2020, 382, 127-139.	5.9	7
8	Addressing the Ethics of Telepresence Applications Through End-User Engagement. <i>Journal of Alzheimer's Disease</i> , 2020, 76, 457-460.	2.6	11
9	A Systematic Review of Attitudes, Anxiety, Acceptance, and Trust Towards Social Robots. <i>International Journal of Social Robotics</i> , 2020, 12, 1179-1201.	4.6	157
10	Active Touch Sensing in Mammals and Robots. , 2020, , 79-109.		1
11	Fast Reverse Replays of Recent Spatiotemporal Trajectories in a Robotic Hippocampal Model. <i>Lecture Notes in Computer Science</i> , 2020, , 390-401.	1.3	1
12	A Framework for Resolving Motivational Conflict via Attractor Dynamics. <i>Lecture Notes in Computer Science</i> , 2020, , 192-203.	1.3	3
13	Velocity Constrained Trajectory Generation for a Collinear Mecanum Wheeled Robot. , 2019, , .		2
14	A Window into the Robot â€˜mindâ€™: Using a Graphical Real-Time Display to Provide Transparency of Function in a Brain-Based Robot. <i>Lecture Notes in Computer Science</i> , 2019, , 316-320.	1.3	0
15	Robots that Imagine â€“ Can Hippocampal Replay Be Utilized for Robotic Mnemonics?. <i>Lecture Notes in Computer Science</i> , 2019, , 277-286.	1.3	1
16	Measuring the Effectiveness of Biomimetic Robots as Therapeutic Tools: Translating the Felt Security Scale from English to Japanese. <i>Lecture Notes in Computer Science</i> , 2019, , 63-75.	1.3	1
17	Dual-Mode Model Predictive Control of an Omnidirectional Wheeled Inverted Pendulum. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 2964-2975.	5.8	14
18	Robotic automation can improve the lives of people who need social care. <i>BMJ: British Medical Journal</i> , 2019, 364, l62.	2.3	2

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19	Memory and mental time travel in humans and social robots. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180025.	4.0	24
20	The Human Brain Project: Responsible Brain Research for the Benefit of Society. <i>Neuron</i> , 2019, 101, 380-384.	8.1	50
21	Obstacle Avoidance Using Stereo Vision and Deep Reinforcement Learning in an Animal-like Robot. , 2019, , .		0
22	The Synthetic Psychology of the Self. <i>Intelligent Systems, Control and Automation: Science and Engineering</i> , 2019, , 85-104.	0.5	26
23	Improving the Visual Comfort of Virtual Reality Telepresence for Robotics. <i>Lecture Notes in Computer Science</i> , 2019, , 697-706.	1.3	2
24	The effects of robot facial emotional expressions and gender on child-robot interaction in a field study. <i>Connection Science</i> , 2018, 30, 343-361.	3.0	24
25	Design and control of a novel omnidirectional dynamically balancing platform for remote inspection of confined and cluttered environments. , 2018, , .		3
26	Feeling the Shape: Active Exploration Behaviors for Object Recognition With a Robotic Hand. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018, 48, 2339-2348.	9.3	35
27	DAC-h3: A Proactive Robot Cognitive Architecture to Acquire and Express Knowledge About the World and the Self. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2018, 10, 1005-1022.	3.8	48
28	F1-05-04: A PERSONALIZED, ANIMAL-LIKE ROBOT COMPANION TO SUPPORT PEOPLE WITH DEMENTIA. <i>Alzheimer's and Dementia</i> , 2018, 14, P210.	0.8	0
29	The Combinatorial Creature: Cortical Phenotypes within and across Lifetimes. <i>Trends in Neurosciences</i> , 2018, 41, 744-762.	8.6	42
30	iCub-HRI: A Software Framework for Complex Human-Robot Interaction Scenarios on the iCub Humanoid Robot. <i>Frontiers in Robotics and AI</i> , 2018, 5, 22.	3.2	13
31	MiRo. , 2018, , .		2
32	Whisker touch sensing guides locomotion in small, quadrupedal mammals. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180592.	2.6	67
33	Living Machines. , 2018, , .		1
34	A Living Machines approach to the sciences of mind and brain. , 2018, , .		2
35	Evo-devo. , 2018, , .		1
36	A sketch of the education landscape in biomimetic and biohybrid systems. , 2018, , .		0

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37	A roadmap for Living Machines research. , 2018, , .		0
38	Biomimetic systems. , 2018, , .		0
39	Mammals and mammal-like robots. , 2018, , .		0
40	Whisker touch guides canopy exploration in a nocturnal, arboreal rodent, the Hazel dormouse ( <i>Muscardinus avellanarius</i> ). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2017, 203, 133-142.	1.6	54
41	Multisensory Wearable Interface for Immersion and Telepresence in Robotics. <i>IEEE Sensors Journal</i> , 2017, 17, 2534-2541.	4.7	25
42	Robots are not just tools. <i>Connection Science</i> , 2017, 29, 142-149.	3.0	25
43	Ethical principles of robotics. <i>Connection Science</i> , 2017, 29, 119-123.	3.0	9
44	Editorial: Ethical Principles of Robotics. <i>Connection Science</i> , 2017, 29, 187-188.	3.0	0
45	MiRo. , 2017, , .		9
46	Active sensorimotor control for tactile exploration. <i>Robotics and Autonomous Systems</i> , 2017, 87, 15-27.	5.1	56
47	Action recognition with unsynchronised multi-sensory data. , 2017, , .		3
48	Adaptive perception: Learning from sensory predictions to extract object shape with a biomimetic fingertip. , 2017, , .		2
49	Analyzing children's expectations from robotic companions in educational settings. , 2017, , .		9
50	Towards a Wearable Interface for Immersive Telepresence in Robotics. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2017, , 65-73.	0.3	4
51	Children's Age Influences Their Use of Biological and Mechanical Questions Towards a Humanoid. <i>Lecture Notes in Computer Science</i> , 2017, , 290-299.	1.3	1
52	IntelliTable: Inclusively-Designed Furniture with Robotic Capabilities. <i>Studies in Health Technology and Informatics</i> , 2017, 242, 565-572.	0.3	1
53	An integrated probabilistic framework for robot perception, learning and memory. , 2016, , .		18
54	The EASEL Project: Towards Educational Human-Robot Symbiotic Interaction. <i>Lecture Notes in Computer Science</i> , 2016, , 297-306.	1.3	16

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55	Towards a Synthetic Tutor Assistant: The EASEL Project and its Architecture. Lecture Notes in Computer Science, 2016, , 353-364.	1.3	11
56	Expressive touch: Control of robot emotional expression by touch. , 2016, , .		10
57	Bayesian perception of touch for control of robot emotion. , 2016, , .		11
58	Head-Mounted Sensory Augmentation Device: Designing a Tactile Language. IEEE Transactions on Haptics, 2016, 9, 376-386.	2.7	15
59	Congratulations, Itâ€™s a Boy! Bench-Marking Childrenâ€™s Perceptions of the Robokind Zeno-R25. Lecture Notes in Computer Science, 2016, , 33-39.	1.3	7
60	Head-Mounted Sensory Augmentation Device: Comparing Haptic and Audio Modality. Lecture Notes in Computer Science, 2016, , 107-118.	1.3	13
61	MIRO: A Robot â€œMammalâ€•with a Biomimetic Brain-Based Control System. Lecture Notes in Computer Science, 2016, , 179-191.	1.3	16
62	iCub Visual Memory Inspector: Visualising the iCubâ€™s Thoughts. Lecture Notes in Computer Science, 2016, , 48-57.	1.3	3
63	Action-Oriented Cognition and Its Implications. , 2016, , 321-332.		1
64	Implications of Action-Oriented Paradigm Shifts in Cognitive Science. , 2016, , 333-356.		5
65	Vibrissal Behavior and Function. , 2016, , 103-116.		0
66	A Bioinspired Approach to Vision. Lecture Notes in Computer Science, 2016, , 40-52.	1.3	0
67	Designing Robot Personalities for Human-Robot Symbiotic Interaction in an Educational Context. Lecture Notes in Computer Science, 2016, , 413-417.	1.3	2
68	Active haptic shape recognition by intrinsic motivation with a robot hand. , 2015, , .		10
69	MIRO. , 2015, , .		16
70	Tactile Superresolution and Biomimetic Hyperacuity. IEEE Transactions on Robotics, 2015, 31, 605-618.	10.3	50
71	Active Control for Object Perception and Exploration with a Robotic Hand. Lecture Notes in Computer Science, 2015, , 415-428.	1.3	3
72	Me in the machine. New Scientist, 2015, 225, 36-39.	0.0	10

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73	The Robot Vibrissal System: Understanding Mammalian Sensorimotor Co-ordination Through Biomimetics. , 2015, , 213-240.		5
74	Saying It with Light: A Pilot Study of Affective Communication Using the MIRO Robot. Lecture Notes in Computer Science, 2015, , 243-255.	1.3	23
75	Children's Age Influences Their Perceptions of a Humanoid Robot as Being Like a Person or Machine. Lecture Notes in Computer Science, 2015, , 348-353.	1.3	11
76	Extending a Hippocampal Model for Navigation Around a Maze Generated from Real-World Data. Lecture Notes in Computer Science, 2015, , 441-452.	1.3	4
77	Telepresence: Immersion with the iCub Humanoid Robot and the Oculus Rift. Lecture Notes in Computer Science, 2015, , 461-464.	1.3	7
78	Active touch sensing: finger tips, whiskers, and antennae. Frontiers in Behavioral Neuroscience, 2014, 8, 50.	2.0	17
79	Biomimetic tactile target acquisition, tracking and capture. Robotics and Autonomous Systems, 2014, 62, 366-375.	5.1	12
80	Strategy Change in Vibrissal Active Sensing during Rat Locomotion. Current Biology, 2014, 24, 1507-1512.	3.9	83
81	Abnormalities in whisking behaviour are associated with lesions in brain stem nuclei in a mouse model of amyotrophic lateral sclerosis. Behavioural Brain Research, 2014, 259, 274-283.	2.2	24
82	A future of living machines?: International trends and prospects in biomimetic and biohybrid systems. Proceedings of SPIE, 2014, , .	0.8	4
83	Machines Learning - Towards a New Synthetic Autobiographical Memory. Lecture Notes in Computer Science, 2014, , 84-96.	1.3	8
84	Discrimination of Social Tactile Gestures Using Biomimetic Skin. Lecture Notes in Computer Science, 2014, , 46-48.	1.3	2
85	Centralizing Bias and the Vibrotactile Funneling Illusion on the Forehead. Lecture Notes in Computer Science, 2014, , 55-62.	1.3	15
86	Optimising Robot Personalities for Symbiotic Interaction. Lecture Notes in Computer Science, 2014, , 392-395.	1.3	5
87	Individual Differences and Biohybrid Societies. Lecture Notes in Computer Science, 2014, , 374-376.	1.3	1
88	Active contour following to explore object shape with robot touch. , 2013, , .		54
89	Active Bayesian perception for angle and position discrimination with a biomimetic fingertip. , 2013, , .		24
90	Active Bayesian perception and reinforcement learning. , 2013, , .		3

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91	The state of the art in biomimetics. <i>Bioinspiration and Biomimetics</i> , 2013, 8, 013001.	2.9	187
92	Simultaneous localisation and mapping on a multi-degree of freedom biomimetic whiskered robot. , 2013, , .		19
93	Cerebellum-based adaptation for fine haptic control over the space of uncertain surfaces. , 2013, , .		1
94	The evolution of active vibrissal sensing in mammals: evidence from vibrissal musculature and function in the marsupial opossum <i>Monodelphis domestica</i> . <i>Journal of Experimental Biology</i> , 2013, 216, 3483-94.	1.7	92
95	Vibrissal touch sensing in the harbor seal ( <i>Phoca vitulina</i> ): how do seals judge size?. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2013, 199, 521-533.	1.6	25
96	Whisker Movements Reveal Spatial Attention: A Unified Computational Model of Active Sensing Control in the Rat. <i>PLoS Computational Biology</i> , 2013, 9, e1003236.	3.2	47
97	Living Machines 2012: The First International Conference on Biomimetic and Biohybrid Systems. <i>Bioinspiration and Biomimetics</i> , 2013, 8, 030201.	2.9	0
98	Active touch for robust perception under position uncertainty. , 2013, , .		39
99	The effect of whisker movement on radial distance estimation: a case study in comparative robotics. <i>Frontiers in Neurorobotics</i> , 2013, 6, 12.	2.8	13
100	A SOLID Case for Active Bayesian Perception in Robot Touch. <i>Lecture Notes in Computer Science</i> , 2013, , 154-166.	1.3	4
101	Perception of Simple Stimuli Using Sparse Data from a Tactile Whisker Array. <i>Lecture Notes in Computer Science</i> , 2013, , 179-190.	1.3	4
102	Towards a Roadmap for Living Machines. <i>Lecture Notes in Computer Science</i> , 2013, , 396-398.	1.3	1
103	The AI Singularity and Runaway Human Intelligence. <i>Lecture Notes in Computer Science</i> , 2013, , 438-440.	1.3	4
104	Evo-devo Design for Living Machines. <i>Lecture Notes in Computer Science</i> , 2013, , 454-456.	1.3	0
105	Angle and Position Perception for Exploration with Active Touch. <i>Lecture Notes in Computer Science</i> , 2013, , 405-408.	1.3	2
106	Optimal decision-making in mammals: insights from a robot study of rodent texture discrimination. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1517-1528.	3.4	38
107	Tactile SLAM with a biomimetic whiskered robot. , 2012, , .		31
108	Brain-inspired Bayesian perception for biomimetic robot touch. , 2012, , .		21

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109	Embodied hyperacuity from Bayesian perception: Shape and position discrimination with an iCub fingertip sensor. , 2012, , .		17
110	Tactile Discrimination Using Active Whisker Sensors. IEEE Sensors Journal, 2012, 12, 350-362.	4.7	62
111	The role of orienting in vibrissal touch sensing. Frontiers in Behavioral Neuroscience, 2012, 6, 39.	2.0	52
112	Texture Classification through Tactile Sensing. Lecture Notes in Computer Science, 2012, , 377-379.	1.3	3
113	Whiskered texture classification with uncertain contact pose geometry. , 2012, , .		4
114	Towards hierarchical blackboard mapping on a whiskered robot. Robotics and Autonomous Systems, 2012, 60, 1356-1366.	5.1	23
115	TAROS2011. Robotics and Autonomous Systems, 2012, 60, 1355.	5.1	0
116	The development of whisker control in rats in relation to locomotion. Developmental Psychobiology, 2012, 54, 151-168.	1.6	74
117	The Emergence of Action Sequences from Spatial Attention: Insight from Rodent-Like Robots. Lecture Notes in Computer Science, 2012, , 168-179.	1.3	5
118	The State-of-the-Art in Biomimetics. Lecture Notes in Computer Science, 2012, , 367-368.	1.3	2
119	Predictive Prey Pursuit in a Whiskered Robot. Lecture Notes in Computer Science, 2012, , 343-353.	1.3	1
120	An Internal Model Architecture for Novelty Detection: Implications for Cerebellar and Collicular Roles in Sensory Processing. PLoS ONE, 2012, 7, e44560.	2.5	28
121	Towards a Framework for Tactile Perception in Social Robotics. Lecture Notes in Computer Science, 2012, , 335-336.	1.3	0
122	Bioinspired Control of Electro-Active Polymers for Next Generation Soft Robots. Lecture Notes in Computer Science, 2012, , 424-425.	1.3	1
123	Toward a Fusion Model of Feature and Spatial Tactile Memory in the Crayfish Cherax Destructor. Lecture Notes in Computer Science, 2012, , 352-354.	1.3	0
124	Optimised agent-based modelling of action selection. , 2011, , 37-60.		1
125	State-dependent foraging rules for social animals in selfish herds. , 2011, , 523-537.		0
126	Biomimetic robots as scientific models: a view from the whisker tip. , 2011, , 23-57.		15



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127	Robot Companions for Citizens. <i>Procedia Computer Science</i> , 2011, 7, 47-51.	2.0	24
128	Active vibrissal sensing in rodents and marsupials. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 3037-3048.	4.0	106
129	Biomimetic vibrissal sensing for robots. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 3085-3096.	4.0	91
130	Active touch sensing. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 2989-2995.	4.0	186
131	Neural Computation via Neural Geometry: A Place Code for Inter-whisker Timing in the Barrel Cortex?. <i>PLoS Computational Biology</i> , 2011, 7, e1002188.	3.2	6
132	CrunchBot: A Mobile Whiskered Robot Platform. <i>Lecture Notes in Computer Science</i> , 2011, , 102-113.	1.3	7
133	Mapping with Sparse Local Sensors and Strong Hierarchical Priors. <i>Lecture Notes in Computer Science</i> , 2011, , 183-194.	1.3	4
134	A General Classifier of Whisker Data Using Stationary Naive Bayes: Application to BIOTACT Robots. <i>Lecture Notes in Computer Science</i> , 2011, , 13-23.	1.3	7
135	Sensing with Artificial Tactile Sensors: An Investigation of Spatio-temporal Inference. <i>Lecture Notes in Computer Science</i> , 2011, , 253-264.	1.3	1
136	Response times for visually guided saccades in persons with Parkinson's disease: A meta-analytic review. <i>Neuropsychologia</i> , 2010, 48, 887-899.	1.6	68
137	BRAHMS: Novel middleware for integrated systems computation. <i>Advanced Engineering Informatics</i> , 2010, 24, 49-61.	8.0	21
138	Naive Bayes novelty detection for a moving robot with whiskers. , 2010, , .		12
139	Whisker-object contact speed affects radial distance estimation. , 2010, , .		18
140	The ventral basal ganglia, a selection mechanism at the crossroads of space, strategy, and reward.. <i>Progress in Neurobiology</i> , 2010, 90, 385-417.	5.7	326
141	Adaptive Cancellation of Self-Generated Sensory Signals in a Whisking Robot. <i>IEEE Transactions on Robotics</i> , 2010, 26, 1065-1076.	10.3	29
142	Naive Bayes texture classification applied to whisker data from a moving robot. , 2010, , .		39
143	Hippocampus as unitary coherent particle filter. , 2010, , .		14
144	Tactile Discrimination Using Template Classifiers: Towards a Model of Feature Extraction in Mammalian Vibrissal Systems. <i>Lecture Notes in Computer Science</i> , 2010, , 178-187.	1.3	9

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145	SCRATCHbot: Active Tactile Sensing in a Whiskered Mobile Robot. Lecture Notes in Computer Science, 2010, , 93-103.	1.3	20
146	Modeling the Emergence of Whisker Direction Maps in Rat Barrel Cortex. PLoS ONE, 2010, 5, e8778.	2.5	28
147	Learning in a Unitary Coherent Hippocampus. Lecture Notes in Computer Science, 2010, , 388-394.	1.3	8
148	Learning cortical representations from multiple whisker inputs. BMC Neuroscience, 2009, 10, .	1.9	0
149	Whisking with robots. IEEE Robotics and Automation Magazine, 2009, 16, 42-50.	2.0	114
150	Contact type dependency of texture classification in a whiskered mobile robot. Autonomous Robots, 2009, 26, 223-239.	4.8	45
151	Technical integration of hippocampus, basal ganglia and physical models for spatial navigation. Frontiers in Neuroinformatics, 2009, 3, 6.	2.5	8
152	Active Touch Sensing in the Rat: Anticipatory and Regulatory Control of Whisker Movements During Surface Exploration. Journal of Neurophysiology, 2009, 101, 862-874.	1.8	188
153	Hippocampus, Amygdala and Basal Ganglia Based Navigation Control. Lecture Notes in Computer Science, 2009, , 267-276.	1.3	1
154	Spike-timing in primary sensory neurons: a model of somatosensory transduction in the rat. Biological Cybernetics, 2008, 98, 185-194.	1.3	20
155	Feedback control in active sensing: rat exploratory whisking is modulated by environmental contact. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 1035-1041.	2.6	231
156	Introduction. Modelling natural action selection. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 1521-1529.	4.0	46
157	Is there a brainstem substrate for action selection?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 1627-1639.	4.0	52
158	Whiskerbot: A Robotic Active Touch System Modeled on the Rat Whisker Sensory System. Adaptive Behavior, 2007, 15, 223-240.	1.9	77
159	Who dominates who in the dark basements of the brain?. Behavioral and Brain Sciences, 2007, 30, 104-105.	0.7	0
160	Forced Moves or Good Tricks in Design Space? Landmarks in the Evolution of Neural Mechanisms for Action Selection. Adaptive Behavior, 2007, 15, 9-31.	1.9	40
161	"A new dissimilarity measure for finding semantic structure in category fluency data with implications for understanding memory organization in schizophrenia": Correction to Prescott, Newton, Mir, Woodruff, and Parks (2006).. Neuropsychology, 2007, 21, 273-273.	1.3	0
162	A new dissimilarity measure for finding semantic structure in category fluency data with implications for understanding memory organization in schizophrenia.. Neuropsychology, 2006, 20, 685-699.	1.3	23

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163	A robot model of the basal ganglia: Behavior and intrinsic processing. <i>Neural Networks</i> , 2006, 19, 31-61.	5.9	167
164	A Biologically Inspired FPGA Based Implementation of a Tactile Sensory System for Object Recognition and Texture Discrimination. , 2006, , .		3
165	The brainstem reticular formation is a small-world, not scale-free, network. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 503-511.	2.6	529
166	Distributed Action Selection by a Brainstem Neural Substrate: An Embodied Evaluation. <i>Lecture Notes in Computer Science</i> , 2006, , 199-210.	1.3	2
167	A Model of Sensorimotor Coordination in the Rat Whisker System. <i>Lecture Notes in Computer Science</i> , 2006, , 77-88.	1.3	9
168	A Biomimetic Haptic Sensor. <i>International Journal of Advanced Robotic Systems</i> , 2005, 2, 36.	2.1	12
169	Is There an Integrative Center in the Vertebrate Brain-Stem? A Robotic Evaluation of a Model of the Reticular Formation Viewed as an Action Selection Device. <i>Adaptive Behavior</i> , 2005, 13, 97-113.	1.9	16
170	Empirically inspired simulated electro-mechanical model of the rat mystacial follicle-sinus complex. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 2509-2516.	2.6	62
171	Computational models of the basal ganglia: from robots to membranes. <i>Trends in Neurosciences</i> , 2004, 27, 453-459.	8.6	161
172	Testing computational hypotheses of brain systems function: a case study with the basal ganglia. <i>Network: Computation in Neural Systems</i> , 2004, 15, 263-290.	3.6	24
173	A BASAL GANGLIA INSPIRED MODEL OF ACTION SELECTION EVALUATED IN A ROBOTIC SURVIVAL TASK. <i>Journal of Integrative Neuroscience</i> , 2003, 02, 179-200.	1.7	31
174	Connectionist Simulation of Attitude Learning: Asymmetries in the Acquisition of Positive and Negative Evaluations. <i>Personality and Social Psychology Bulletin</i> , 2003, 29, 1221-1235.	3.0	54
175	Continuity and change in the development of category structure: Insights from the semantic fluency task. <i>International Journal of Behavioral Development</i> , 2003, 27, 467-479.	2.4	66
176	The Interaction of Recurrent Axon Collateral Networks in the Basal Ganglia. <i>Lecture Notes in Computer Science</i> , 2003, , 797-804.	1.3	2
177	The Robot Basal Ganglia:. <i>Advances in Behavioral Biology</i> , 2002, , 349-358.	0.2	9
178	A computational model of action selection in the basal ganglia. I. A new functional anatomy. <i>Biological Cybernetics</i> , 2001, 84, 401-410.	1.3	510
179	A computational model of action selection in the basal ganglia. II. Analysis and simulation of behaviour. <i>Biological Cybernetics</i> , 2001, 84, 411-423.	1.3	245
180	Layered Control Architectures in Robots and Vertebrates. <i>Adaptive Behavior</i> , 1999, 7, 99-127.	1.9	224

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181	The basal ganglia: a vertebrate solution to the selection problem?. Neuroscience, 1999, 89, 1009-1023.	2.3	1,083
182	Is the short-latency dopamine response too short to signal reward error?. Trends in Neurosciences, 1999, 22, 146-151.	8.6	509
183	Feature Distributions and Experimental Evaluation in a Connectionist Model of Semantic Memory. Perspectives in Neural Computing, 1999, , 159-169.	0.1	0
184	Kinematic Coordination of Reach and Balance. Journal of Motor Behavior, 1998, 30, 217-233.	0.9	8
185	The Basal Ganglia viewed as an Action Selection Device. Perspectives in Neural Computing, 1998, , 1033-1038.	0.1	11
186	A Robot Trace Maker: Modeling the Fossil Evidence of Early Invertebrate Behavior. Artificial Life, 1997, 3, 289-306.	1.3	47
187	Spatial Representation for Navigation in Animats. Adaptive Behavior, 1996, 4, 85-123.	1.9	45
188	The medial reticular formation: a brainstem substrate for simple action selection?. , 0, , 300-329.		0
189	Action selection and refinement in subcortical loops through basal ganglia and cerebellum. , 0, , 176-207.		4
190	Introduction to Part II: computational neuroscience models. , 0, , 169-175.		0
191	Toward an executive without a homunculus: computational models of the prefrontal cortex/basal ganglia system. , 0, , 239-263.		1
192	Introduction to Part I: rational and optimal decision making. , 0, , 7-11.		0
193	Cortical mechanisms of action selection: the affordance competition hypothesis. , 0, , 208-238.		5
194	Biologically constrained action selection improves cognitive control in a model of the Stroop task. , 0, , 363-389.		0
195	Mechanisms of choice in the primate brain: a quick look at positive feedback. , 0, , 390-418.		5
196	Introduction to Part III: action selection in social contexts. , 0, , 421-426.		0