

Ah-Hwee Tan

List of Publications by Year in descending order

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167
papers

3,296
citations

201674

27
h-index

206112

48
g-index

170
all docs

170
docs citations

170
times ranked

2250
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time Hierarchical Map Segmentation for Coordinating Multirobot Exploration. IEEE Access, 2023, 11, 15680-15692.	4.2	0
2	End-to-End Hierarchical Reinforcement Learning With Integrated Subgoal Discovery. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 7778-7790.	11.3	7
3	Vision-Based Topological Mapping and Navigation With Self-Organizing Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 7101-7113.	11.3	4
4	Hierarchical Reinforcement Learning. ACM Computing Surveys, 2022, 54, 1-35.	23.0	105
5	Predictive self-organizing neural networks for in-home detection of Mild Cognitive Impairment. Expert Systems With Applications, 2022, 205, 117538.	7.6	5
6	Learning ADL Daily Routines with Spatiotemporal Neural Networks. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 143-153.	5.7	8
7	Interpretable Goal Recognition for Path Planning with ART Networks. , 2021, , .		0
8	Hierarchical control of multi-agent reinforcement learning team in real-time strategy (RTS) games. Expert Systems With Applications, 2021, 186, 115707.	7.6	8
9	Stock Market Trend Forecasting Based on Multiple Textual Features: A Deep Learning Method. , 2021, , .		3
10	Goods Consumed During Transit in Split Delivery Vehicle Routing Problems: Modeling and Solution. IEEE Access, 2020, 8, 110336-110350.	4.2	5
11	McDPC: multi-center density peak clustering. Neural Computing and Applications, 2020, 32, 13465-13478.	5.6	45
12	A systematic density-based clustering method using anchor points. Neurocomputing, 2020, 400, 352-370.	5.9	15
13	Who Am I?: Towards Social Self-Awareness for Intelligent Agents. , 2020, , .		0
14	Perception Coordination Network: A Neuro Framework for Multimodal Concept Acquisition and Binding. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1104-1118.	11.3	2
15	Self-organizing neural networks for universal learning and multimodal memory encoding. Neural Networks, 2019, 120, 58-73.	5.9	24
16	Saliency-aware adaptive resonance theory for large-scale sparse data clustering. Neural Networks, 2019, 120, 143-157.	5.9	11
17	Online Multimodal Co-indexing and Retrieval of Social Media Data. Advanced Information and Knowledge Processing, 2019, , 155-174.	0.3	3
18	Clustering and Its Extensions in the Social Media Domain. Advanced Information and Knowledge Processing, 2019, , 15-44.	0.3	0

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19	Adaptive Resonance Theory in Social Media Data Clustering. Advanced Information and Knowledge Processing, 2019, , .	0.3	9
20	Modelling Autobiographical Memory Loss across Life Span. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 1368-1375.	4.9	5
21	Multi-agent Reinforcement Learning in Spatial Domain Tasks using Inter Subtask Empowerment Rewards. , 2019, , .		1
22	Multi-Agent Collaborative Exploration through Graph-based Deep Reinforcement Learning. , 2019, , .		11
23	End-to-end Deep Reinforcement Learning for Multi-agent Collaborative Exploration. , 2019, , .		12
24	A coordination framework for multi-agent persuasion and adviser systems. Expert Systems With Applications, 2019, 116, 31-51.	7.6	5
25	REDPC: A residual error-based density peak clustering algorithm. Neurocomputing, 2019, 348, 82-96.	5.9	63
26	Socially-Enriched Multimedia Data Co-clustering. Advanced Information and Knowledge Processing, 2019, , 111-135.	0.3	0
27	Personalized Web Image Organization. Advanced Information and Knowledge Processing, 2019, , 93-110.	0.3	0
28	Adaptive Resonance Theory (ART) for Social Media Analytics. Advanced Information and Knowledge Processing, 2019, , 45-89.	0.3	2
29	Community Discovery in Heterogeneous Social Networks. Advanced Information and Knowledge Processing, 2019, , 137-154.	0.3	0
30	Region-Aware Reflection Removal With Unified Content and Gradient Priors. IEEE Transactions on Image Processing, 2018, 27, 2927-2941.	9.8	43
31	Analysis of Public Transportation Patterns in a Densely Populated City with Station-based Shared Bikes. , 2018, , .		0
32	Learning Generalized Video Memory for Automatic Video Captioning. Lecture Notes in Computer Science, 2018, , 187-201.	1.3	1
33	CRRN: Multi-scale Guided Concurrent Reflection Removal Network. , 2018, , .		74
34	Autonomous Agents in Snake Game via Deep Reinforcement Learning. , 2018, , .		9
35	Probabilistic Guided Exploration for Reinforcement Learning in Self-Organizing Neural Networks. , 2018, , .		4
36	An interpretable neural fuzzy inference system for predictions of underpricing in initial public offerings. Neurocomputing, 2018, 319, 102-117.	5.9	12

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37	Predicting Visual Context for Unsupervised Event Segmentation in Continuous Photo-streams. , 2018, ,		15
38	Semantic Memory Modeling and Memory Interaction in Learning Agents. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 2882-2895.	9.3	15
39	eHealthPortal. , 2017, , .		1
40	EEG-Based Emotion Recognition via Fast and Robust Feature Smoothing. Lecture Notes in Computer Science, 2017, , 83-92.	1.3	10
41	Robust human activity recognition using lesser number of wearable sensors. , 2017, , .		9
42	Benchmarking Single-Image Reflection Removal Algorithms. , 2017, , .		100
43	A novel density peak clustering algorithm based on squared residual error. , 2017, , .		7
44	Elderly friendliness evaluation of mobile assistants. , 2017, , .		4
45	Leveraging the trade-off between accuracy and interpretability in a hybrid intelligent system. , 2017, , .		0
46	Sparsity based reflection removal using external patch search. , 2017, , .		17
47	Self-regulated incremental clustering with focused preferences. , 2016, , .		2
48	Summarization of Egocentric Videos: A Comprehensive Survey. IEEE Transactions on Human-Machine Systems, 2016, , 1-12.	3.5	34
49	Towards autonomous behavior learning of non-player characters in games. Expert Systems With Applications, 2016, 56, 89-99.	7.6	13
50	Modeling human-like non-rationality for social agents. , 2016, , .		0
51	Interactive Teachable Cognitive Agents: Smart Building Blocks for Multiagent Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 1724-1735.	9.3	8
52	Social context cognition crowdâ€sourcing and semiâ€automatic parametrization. Computer Animation and Virtual Worlds, 2016, 27, 330-339.	1.2	0
53	Band selection for hyperspectral images using probabilistic memetic algorithm. Soft Computing, 2016, 20, 4685-4693.	3.6	18
54	Adaptive Scaling of Cluster Boundaries for Large-Scale Social Media Data Clustering. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 2656-2669.	11.3	27

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55	MyLife: An Online Personal Memory Album. , 2015, , .		2
56	Silver Assistants for Aging-in-Place. , 2015, , .		4
57	Dramaturgical and dissonance theories in explicit social context modeling for complex agents. Computer Animation and Virtual Worlds, 2015, 26, 247-257.	1.2	2
58	Creating Autonomous Adaptive Agents in a Real-Time First-Person Shooter Computer Game. IEEE Transactions on Games, 2015, 7, 123-138.	1.4	36
59	Progressive Sequence Matching for ADL Plan Recommendation. , 2015, , .		2
60	Fast Reinforcement Learning under Uncertainties with Self-Organizing Neural Networks. , 2015, , .		4
61	Coordinated Persuasion with Dynamic Group Formation for Collaborative Elderly Care. , 2015, , .		3
62	Non-Intrusive Robust Human Activity Recognition for Diverse Age Groups. , 2015, , .		6
63	Self-Organizing Neural Networks Integrating Domain Knowledge and Reinforcement Learning. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 889-902.	11.3	38
64	Neural modeling of sequential inferences and learning over episodic memory. Neurocomputing, 2015, 161, 229-242.	5.9	19
65	Online Multimodal Co-indexing and Retrieval of Weakly Labeled Web Image Collections. , 2015, , .		12
66	Memes as building blocks: a case study on evolutionary optimization + transfer learning for routing problems. Memetic Computing, 2015, 7, 159-180.	4.0	87
67	User daily activity pattern learning: A multi-memory modeling approach. , 2014, , .		10
68	Integrating Motivated Learning and k-Winner-Take-All to Coordinate Multi-agent Reinforcement Learning. , 2014, , .		1
69	Towards intelligent caring agents for Aging-In-Place: Issues and challenges. , 2014, , .		15
70	Integrating self-organizing neural network and Motivated Learning for coordinated multi-agent reinforcement learning in multi-stage stochastic game. , 2014, , .		3
71	Mobile humanoid agent with mood awareness for elderly care. , 2014, , .		9
72	Semi-Supervised Heterogeneous Fusion for Multimedia Data Co-Clustering. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 2293-2306.	5.7	53

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73	Community Discovery in Social Networks via Heterogeneous Link Association and Fusion. , 2014, , .		9
74	Extreme learning machine terrain-based navigation for unmanned aerial vehicles. Neural Computing and Applications, 2013, 22, 469-477.	5.6	22
75	Delayed insertion and rule effect moderation of domain knowledge for reinforcement learning. , 2013, , .		1
76	Cooperative reinforcement learning in topology-based multi-agent systems. Autonomous Agents and Multi-Agent Systems, 2013, 26, 86-119.	2.1	8
77	Adaptive computer-generated forces for simulator-based training. Expert Systems With Applications, 2013, 40, 7341-7353.	7.6	12
78	Vigilance adaptation in adaptive resonance theory. , 2013, , .		11
79	Agent-Based Virtual Humans in Co-Space: An Evaluative Study. , 2012, , .		3
80	Knowledge-Based Exploration for Reinforcement Learning in Self-Organizing Neural Networks. , 2012, , .		8
81	An evolutionary search paradigm that learns with past experiences. , 2012, , .		27
82	Preface: Trends in Natural and Machine Intelligence. Procedia Computer Science, 2012, 13, 1-6.	2.0	0
83	A biologically-inspired affective model based on cognitive situational appraisal. , 2012, , .		2
84	Self-organizing neural networks for learning air combat maneuvers. , 2012, , .		23
85	Semi-supervised hierarchical clustering for personalized web image organization. , 2012, , .		1
86	A self-organizing multi-memory system for autonomous agents. , 2012, , .		4
87	Neural Modeling of Episodic Memory: Encoding, Retrieval, and Forgetting. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1574-1586.	11.3	81
88	Self-Regulating Action Exploration in Reinforcement Learning. Procedia Computer Science, 2012, 13, 18-30.	2.0	11
89	Motivated learning for the development of autonomous systems. Cognitive Systems Research, 2012, 14, 10-25.	2.7	25
90	iFALCON: A neural architecture for hierarchical planning. Neurocomputing, 2012, 86, 124-139.	5.9	7

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91	A non-parametric visual-sense model of images“extending the cluster hypothesis beyond text. Multimedia Tools and Applications, 2012, 56, 509-534.	3.9	2
92	Topic Based Query Suggestions for Video Search. Lecture Notes in Computer Science, 2012, , 288-299.	1.3	2
93	FAME, Soft Flock Formation Control for Collective Behavior Studies and Rapid Games Development. Lecture Notes in Computer Science, 2012, , 258-269.	1.3	3
94	A Brain-Inspired Model of Hierarchical Planner. , 2011, , .		0
95	Learning Human Emotion Patterns for Modeling Virtual Humans. , 2011, , .		3
96	A hybrid agent architecture integrating desire, intention and reinforcement learning. Expert Systems With Applications, 2011, 38, 8477-8487.	7.6	22
97	Towards human-like social multi-agents with memetic automaton. , 2011, , .		19
98	Learning Personal Agents with Adaptive Player Modeling in Virtual Worlds. , 2010, , .		4
99	Creating an Immersive Game World with Evolutionary Fuzzy Cognitive Maps. IEEE Computer Graphics and Applications, 2010, 30, 58-70.	1.2	26
100	A self-organizing neural architecture integrating desire, intention and reinforcement learning. Neurocomputing, 2010, 73, 1465-1477.	5.9	5
101	CRCTOL: A semantic“based domain ontology learning system. Journal of the Association for Information Science and Technology, 2010, 61, 150-168.	2.6	70
102	A self-organizing approach to episodic memory modeling. , 2010, , .		17
103	Mental development and representation building through motivated learning. , 2010, , .		0
104	Self-organizing agents for reinforcement learning in virtual worlds. , 2010, , .		5
105	Towards probabilistic memetic algorithm: An initial study on capacitated arc routing problem. , 2010, , .		16
106	Self-organizing neural networks for behavior modeling in games. , 2010, , .		3
107	DIRECT: Agent-Based Interactive Storytelling. , 2010, , .		2
108	Faceted topic retrieval of news video using joint topic modeling of visual features and speech transcripts. , 2010, , .		2

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109	Youth Olympic Village Co-space. , 2010, , .		1
110	A Biologically-Inspired Cognitive Agent Model Integrating Declarative Knowledge and Reinforcement Learning. , 2010, , .		2
111	Agent-Augmented Co-Space: Toward Merging of Real World and Cyberspace. Lecture Notes in Computer Science, 2010, , 298-312.	1.3	1
112	A Bayesian approach integrating regional and global features for image semantic learning. , 2009, , .		2
113	Learning Image-Text Associations. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 161-177.	5.7	23
114	Modelling situation awareness for Context-aware Decision Support. Expert Systems With Applications, 2009, 36, 455-463.	7.6	81
115	Mining globally distributed frequent subgraphs in a single labeled graph. Data and Knowledge Engineering, 2009, 68, 1034-1058.	3.4	25
116	Learning and inferencing in user ontology for personalized Semantic Web search. Information Sciences, 2009, 179, 2794-2808.	6.9	89
117	Coherent Phrase Model for Efficient Image Near-Duplicate Retrieval. IEEE Transactions on Multimedia, 2009, 11, 1434-1445.	7.2	26
118	A Latent Model for Visual Disambiguation of Keyword-based Image Search. , 2009, , .		6
119	Explaining inferences in Bayesian networks. Applied Intelligence, 2008, 29, 263-278.	5.3	33
120	A fast pruned-extreme learning machine for classification problem. Neurocomputing, 2008, 72, 359-366.	5.9	323
121	Context modeling with Evolutionary Fuzzy Cognitive Map in interactive storytelling. , 2008, , .		7
122	Integrating Temporal Difference Methods and Self-Organizing Neural Networks for Reinforcement Learning With Delayed Evaluative Feedback. IEEE Transactions on Neural Networks, 2008, 19, 230-244.	4.2	88
123	Cognitive Agents Integrating Rules and Reinforcement Learning for Context-Aware Decision Support. , 2008, , .		6
124	Scaling Up Multi-agent Reinforcement Learning in Complex Domains. , 2008, , .		5
125	Planning with iFALCON: Towards A Neural-Network-Based BDI Agent Architecture. , 2008, , .		6
126	Self-organizing neural models integrating rules and reinforcement learning. , 2008, , .		4

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127	Ontology enhanced web image retrieval. , 2008, , .		11
128	TOIS reviewers January 2006 through May 2007. ACM Transactions on Information Systems, 2007, 25, 15.	4.9	1
129	Discovering and Exploiting Causal Dependencies for Robust Mobile Context-Aware Recommenders. IEEE Transactions on Knowledge and Data Engineering, 2007, 19, 977-992.	5.7	39
130	Self-Organizing Neural Architectures and Cooperative Learning in a Multiagent Environment. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 1567-1580.	5.0	15
131	Mining Generalized Associations of Semantic Relations from Textual Web Content. IEEE Transactions on Knowledge and Data Engineering, 2007, 19, 164-179.	5.7	42
132	The Multi-Agent Data Collection in HLA-Based Simulation System. , 2007, , .		3
133	Integrated cognitive architectures: a survey. Artificial Intelligence Review, 2007, 28, 103-130.	15.7	72
134	Intelligence Through Interaction: Towards a Unified Theory for Learning. Lecture Notes in Computer Science, 2007, , 1094-1103.	1.3	57
135	Discovering Causal Dependencies in Mobile Context-Aware Recommenders. , 2006, , .		1
136	Fuzzy cognitive goal net for interactive storytelling plot design. , 2006, , .		8
137	Mining RDF metadata for generalized association rules. , 2006, , .		6
138	Learning and inferencing in user ontology for personalized semantic web services. , 2006, , .		6
139	Wireless Indoor Positioning System with Enhanced Nearest Neighbors in Signal Space Algorithm. , 2006, , .		26
140	Self-organizing Neural Architecture for Reinforcement Learning. Lecture Notes in Computer Science, 2006, , 470-475.	1.3	7
141	A Hybrid Architecture Combining Reactive Plan Execution and Reactive Learning. Lecture Notes in Computer Science, 2006, , 200-211.	1.3	18
142	Integrating Semantic Templates with Decision Tree for Image Semantic Learning. Lecture Notes in Computer Science, 2006, , 185-195.	1.3	3
143	Predictive neural networks for gene expression data analysis. Neural Networks, 2005, 18, 297-306.	5.9	42
144	Dynamically-optimized context in recommender systems. , 2005, , .		20

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145	Towards personalised web intelligence. Knowledge and Information Systems, 2004, 6, 595-616.	3.2	65
146	Modified ART 2A Growing Network Capable of Generating a Fixed Number of Nodes. IEEE Transactions on Neural Networks, 2004, 15, 728-737.	4.2	37
147	On Machine Learning Methods for Chinese Document Categorization. Applied Intelligence, 2003, 18, 311-322.	5.3	64
148	Guest Editorial: Text and Web Mining. Applied Intelligence, 2003, 18, 239-241.	5.3	2
149	Organizing and personalizing intelligence gathering from the web. Intelligent Systems in Accounting, Finance and Management, 2002, 11, 9-21.	4.6	2
150	Adding Personality to Information Clustering. Lecture Notes in Computer Science, 2002, , 251-256.	1.3	3
151	FOCI. , 2001, , .		7
152	Predictive Self-Organizing Networks for Text Categorization. Lecture Notes in Computer Science, 2001, , 66-77.	1.3	7
153	Machine learning methods for Chinese web page categorization. , 2000, , .		10
154	Predictive Adaptive Resonance Theory and Knowledge Discovery in Databases. Lecture Notes in Computer Science, 2000, , 173-176.	1.3	5
155	Cascade ARTMAP: integrating neural computation and symbolic knowledge processing. IEEE Transactions on Neural Networks, 1997, 8, 237-250.	4.2	65
156	Inductive neural logic network and the SCM algorithm. Neurocomputing, 1997, 14, 157-176.	5.9	9
157	CONCEPT HIERARCHY MEMORY MODEL: A NEURAL ARCHITECTURE FOR CONCEPTUAL KNOWLEDGE REPRESENTATION, LEARNING, AND COMMONSENSE REASONING. International Journal of Neural Systems, 1996, 07, 305-319.	5.2	16
158	An application of hierarchical knowledge integration in hand-written form processing. Lecture Notes in Computer Science, 1996, , 169-180.	1.3	0
159	Adaptive resonance associative map. Neural Networks, 1995, 8, 437-446.	5.9	89
160	Rule Extraction: From Neural Architecture to Symbolic Representation. Connection Science, 1995, 7, 3-27.	3.0	144
161	Connectionist expert system with adaptive learning capability. IEEE Transactions on Knowledge and Data Engineering, 1991, 3, 200-207.	5.7	17
162	Integrating rules and neural computation. , 0, , .		3

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163	Learning user profiles for personalized information dissemination. , 0, , .		18
164	FALCON: a fusion architecture for learning, cognition, and navigation. , 0, , .		39
165	Mining Ontological Knowledge from Domain-Specific Text Documents. , 0, , .		36
166	Self-Organizing Cognitive Agents and Reinforcement Learning in Multi-Agent Environment. , 0, , .		10
167	Who are the "silent spreaders"? contact tracing in spatio-temporal memory models. Neural Computing and Applications, 0, , .	5.6	1