

Ah-Hwee Tan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

147 papers	2,236 citations	24 h-index	42 g-index
170 ext. papers	2,714 ext. citations	4.1 avg, IF	5.28 L-index

#	Paper	IF	Citations
147	Predictive self-organizing neural networks for in-home detection of Mild Cognitive Impairment. <i>Expert Systems With Applications</i> , 2022 , 117538	7.8	0
146	Hierarchical Reinforcement Learning. <i>ACM Computing Surveys</i> , 2021 , 54, 1-35	13.4	17
145	. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2021 , 33, 143-153	4.2	3
144	Vision-Based Topological Mapping and Navigation With Self-Organizing Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	1
143	Hierarchical control of multi-agent reinforcement learning team in real-time strategy (RTS) games. <i>Expert Systems With Applications</i> , 2021 , 186, 115707	7.8	1
142	Goods Consumed During Transit in Split Delivery Vehicle Routing Problems: Modeling and Solution. <i>IEEE Access</i> , 2020 , 8, 110336-110350	3.5	3
141	McDPC: multi-center density peak clustering. <i>Neural Computing and Applications</i> , 2020 , 32, 13465-13478	4.8	14
140	A systematic density-based clustering method using anchor points. <i>Neurocomputing</i> , 2020 , 400, 352-370	5.4	5
139	Self-organizing neural networks for universal learning and multimodal memory encoding. <i>Neural Networks</i> , 2019 , 120, 58-73	9.1	12
138	Salience-aware adaptive resonance theory for large-scale sparse data clustering. <i>Neural Networks</i> , 2019 , 120, 143-157	9.1	4
137	Online Multimodal Co-indexing and Retrieval of Social Media Data. <i>Advanced Information and Knowledge Processing</i> , 2019 , 155-174	0.3	2
136	Clustering and Its Extensions in the Social Media Domain. <i>Advanced Information and Knowledge Processing</i> , 2019 , 15-44	0.3	
135	Adaptive Resonance Theory in Social Media Data Clustering. <i>Advanced Information and Knowledge Processing</i> , 2019 ,	0.3	1
134	Perception Coordination Network: A Neuro Framework for Multimodal Concept Acquisition and Binding. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 1104-1118	10.3	1
133	Socially-Enriched Multimedia Data Co-clustering. <i>Advanced Information and Knowledge Processing</i> , 2019 , 111-135	0.3	
132	Personalized Web Image Organization. <i>Advanced Information and Knowledge Processing</i> , 2019 , 93-110	0.3	
131	Adaptive Resonance Theory (ART) for Social Media Analytics. <i>Advanced Information and Knowledge Processing</i> , 2019 , 45-89	0.3	0

130	Community Discovery in Heterogeneous Social Networks. <i>Advanced Information and Knowledge Processing</i> , 2019 , 137-154	0.3	
129	Modelling Autobiographical Memory Loss across Life Span. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019 , 33, 1368-1375	5	2
128	Multi-agent Reinforcement Learning in Spatial Domain Tasks using Inter Subtask Empowerment Rewards 2019 ,		1
127	Multi-Agent Collaborative Exploration through Graph-based Deep Reinforcement Learning 2019 ,		3
126	End-to-end Deep Reinforcement Learning for Multi-agent Collaborative Exploration 2019 ,		4
125	A coordination framework for multi-agent persuasion and adviser systems. <i>Expert Systems With Applications</i> , 2019 , 116, 31-51	7.8	4
124	REDPC: A residual error-based density peak clustering algorithm. <i>Neurocomputing</i> , 2019 , 348, 82-96	5.4	45
123	Region-Aware Reflection Removal with Unified Content and Gradient Priors. <i>IEEE Transactions on Image Processing</i> , 2018 ,	8.7	22
122	Predicting Visual Context for Unsupervised Event Segmentation in Continuous Photo-streams 2018 ,		10
121	Learning Generalized Video Memory for Automatic Video Captioning. <i>Lecture Notes in Computer Science</i> , 2018 , 187-201	0.9	
120	CRRN: Multi-scale Guided Concurrent Reflection Removal Network 2018 ,		46
119	Autonomous Agents in Snake Game via Deep Reinforcement Learning 2018 ,		4
118	Probabilistic Guided Exploration for Reinforcement Learning in Self-Organizing Neural Networks 2018 ,		2
117	An interpretable neural fuzzy inference system for predictions of underpricing in initial public offerings. <i>Neurocomputing</i> , 2018 , 319, 102-117	5.4	8
116	Semantic Memory Modeling and Memory Interaction in Learning Agents. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 2882-2895	7.3	11
115	Sparsity based reflection removal using external patch search 2017 ,		11
114	eHealthPortal 2017 ,		1
113	EEG-Based Emotion Recognition via Fast and Robust Feature Smoothing. <i>Lecture Notes in Computer Science</i> , 2017 , 83-92	0.9	6

112	Robust human activity recognition using lesser number of wearable sensors 2017 ,		3
111	Benchmarking Single-Image Reflection Removal Algorithms 2017 ,		62
110	A novel density peak clustering algorithm based on squared residual error 2017 ,		6
109	Elderly friendliness evaluation of mobile assistants 2017 ,		2
108	Social context cognition crowd-sourcing and semi-automatic parametrization. <i>Computer Animation and Virtual Worlds</i> , 2016 , 27, 330-339	0.9	
107	Band selection for hyperspectral images using probabilistic memetic algorithm. <i>Soft Computing</i> , 2016 , 20, 4685-4693	3.5	13
106	Adaptive Scaling of Cluster Boundaries for Large-Scale Social Media Data Clustering. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016 , 27, 2656-2669	10.3	19
105	Summarization of Egocentric Videos: A Comprehensive Survey. <i>IEEE Transactions on Human-Machine Systems</i> , 2016 , 1-12	4.1	20
104	Towards autonomous behavior learning of non-player characters in games. <i>Expert Systems With Applications</i> , 2016 , 56, 89-99	7.8	7
103	Interactive Teachable Cognitive Agents: Smart Building Blocks for Multiagent Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2016 , 46, 1724-1735	7.3	7
102	Neural modeling of sequential inferences and learning over episodic memory. <i>Neurocomputing</i> , 2015 , 161, 229-242	5.4	15
101	Online Multimodal Co-indexing and Retrieval of Weakly Labeled Web Image Collections 2015 ,		7
100	Memes as building blocks: a case study on evolutionary optimization + transfer learning for routing problems. <i>Memetic Computing</i> , 2015 , 7, 159-180	3.4	65
99	MyLife: An Online Personal Memory Album 2015 ,		1
98	Silver Assistants for Aging-in-Place 2015 ,		4
97	Dramaturgical and dissonance theories in explicit social context modeling for complex agents. <i>Computer Animation and Virtual Worlds</i> , 2015 , 26, 247-257	0.9	0
96	Creating Autonomous Adaptive Agents in a Real-Time First-Person Shooter Computer Game. <i>IEEE Transactions on Games</i> , 2015 , 7, 123-138		25
95	Progressive Sequence Matching for ADL Plan Recommendation 2015 ,		2

94	Fast Reinforcement Learning under Uncertainties with Self-Organizing Neural Networks 2015 ,		4
93	Coordinated Persuasion with Dynamic Group Formation for Collaborative Elderly Care 2015 ,		2
92	Non-Intrusive Robust Human Activity Recognition for Diverse Age Groups 2015 ,		5
91	Self-organizing neural networks integrating domain knowledge and reinforcement learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 889-902	10.3	31
90	Mobile humanoid agent with mood awareness for elderly care 2014 ,		9
89	Semi-Supervised Heterogeneous Fusion for Multimedia Data Co-Clustering. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2014 , 26, 2293-2306	4.2	38
88	User daily activity pattern learning: A multi-memory modeling approach 2014 ,		7
87	Integrating Motivated Learning and k-Winner-Take-All to Coordinate Multi-agent Reinforcement Learning 2014 ,		1
86	Towards intelligent caring agents for Aging-In-Place: Issues and challenges 2014 ,		11
85	Integrating self-organizing neural network and Motivated Learning for coordinated multi-agent reinforcement learning in multi-stage stochastic game 2014 ,		3
84	Community Discovery in Social Networks via Heterogeneous Link Association and Fusion 2014 ,		6
83	Extreme learning machine terrain-based navigation for unmanned aerial vehicles. <i>Neural Computing and Applications</i> , 2013 , 22, 469-477	4.8	17
82	Cooperative reinforcement learning in topology-based multi-agent systems. <i>Autonomous Agents and Multi-Agent Systems</i> , 2013 , 26, 86-119	2	6
81	Adaptive computer-generated forces for simulator-based training. <i>Expert Systems With Applications</i> , 2013 , 40, 7341-7353	7.8	11
80	Vigilance adaptation in adaptive resonance theory 2013 ,		10
79	Self-organizing Cognitive Models for Virtual Agents. <i>Lecture Notes in Computer Science</i> , 2013 , 29-43	0.9	4
78	iFALCON: A neural architecture for hierarchical planning. <i>Neurocomputing</i> , 2012 , 86, 124-139	5.4	5
77	A non-parametric visual-sense model of images—extending the cluster hypothesis beyond text. <i>Multimedia Tools and Applications</i> , 2012 , 56, 509-534	2.5	

76	Preface: Trends in Natural and Machine Intelligence. <i>Procedia Computer Science</i> , 2012 , 13, 1-6	1.6
75	Self-organizing neural networks for learning air combat maneuvers 2012 ,	12
74	A self-organizing multi-memory system for autonomous agents 2012 ,	3
73	Neural modeling of episodic memory: encoding, retrieval, and forgetting. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2012 , 23, 1574-86	10.3 55
72	Self-Regulating Action Exploration in Reinforcement Learning. <i>Procedia Computer Science</i> , 2012 , 13, 18-306	10
71	Motivated learning for the development of autonomous systems. <i>Cognitive Systems Research</i> , 2012 , 14, 10-25	4.8 19
70	Agent-Based Virtual Humans in Co-Space: An Evaluative Study 2012 ,	1
69	Knowledge-Based Exploration for Reinforcement Learning in Self-Organizing Neural Networks 2012 ,	5
68	An evolutionary search paradigm that learns with past experiences 2012 ,	21
67	Topic Based Query Suggestions for Video Search. <i>Lecture Notes in Computer Science</i> , 2012 , 288-299	0.9 1
66	FAME, Soft Flock Formation Control for Collective Behavior Studies and Rapid Games Development. <i>Lecture Notes in Computer Science</i> , 2012 , 258-269	0.9 2
65	Learning Human Emotion Patterns for Modeling Virtual Humans 2011 ,	2
64	A hybrid agent architecture integrating desire, intention and reinforcement learning. <i>Expert Systems With Applications</i> , 2011 , 38, 8477-8487	7.8 12
63	Towards human-like social multi-agents with memetic automaton 2011 ,	15
62	A self-organizing approach to episodic memory modeling 2010 ,	16
61	Self-organizing agents for reinforcement learning in virtual worlds 2010 ,	2
60	Towards probabilistic memetic algorithm: An initial study on capacitated arc routing problem 2010 ,	12
59	Self-organizing neural networks for behavior modeling in games 2010 ,	3

58	2010,		2
57	Youth Olympic Village Co-space 2010,		1
56	A Biologically-Inspired Cognitive Agent Model Integrating Declarative Knowledge and Reinforcement Learning 2010,		2
55	Learning Personal Agents with Adaptive Player Modeling in Virtual Worlds 2010,		4
54	Creating an immersive game world with evolutionary fuzzy cognitive maps. <i>IEEE Computer Graphics and Applications</i> , 2010, 30, 58-70	1.7	18
53	A self-organizing neural architecture integrating desire, intention and reinforcement learning. <i>Neurocomputing</i> , 2010, 73, 1465-1477	5.4	4
52	CRCTOL: A semantic-based domain ontology learning system. <i>Journal of the Association for Information Science and Technology</i> , 2010, 61, 150-168		55
51	Agent-Augmented Co-Space: Toward Merging of Real World and Cyberspace. <i>Lecture Notes in Computer Science</i> , 2010, 298-312	0.9	1
50	A Bayesian approach integrating regional and global features for image semantic learning 2009,		1
49	Learning Image-Text Associations. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2009, 21, 161-172	1.7	19
48	Modelling situation awareness for Context-aware Decision Support. <i>Expert Systems With Applications</i> , 2009, 36, 455-463	7.8	61
47	Mining globally distributed frequent subgraphs in a single labeled graph. <i>Data and Knowledge Engineering</i> , 2009, 68, 1034-1058	1.5	20
46	Learning and inferencing in user ontology for personalized Semantic Web search. <i>Information Sciences</i> , 2009, 179, 2794-2808	7.7	66
45	. <i>IEEE Transactions on Multimedia</i> , 2009, 11, 1434-1445	6.6	22
44	A Latent Model for Visual Disambiguation of Keyword-based Image Search 2009,		4
43	A fast pruned-extreme learning machine for classification problem. <i>Neurocomputing</i> , 2008, 72, 359-366	5.4	278
42	Integrating temporal difference methods and self-organizing neural networks for reinforcement learning with delayed evaluative feedback. <i>IEEE Transactions on Neural Networks</i> , 2008, 19, 230-44		66
41	Cognitive Agents Integrating Rules and Reinforcement Learning for Context-Aware Decision Support 2008,		5

40	Scaling Up Multi-agent Reinforcement Learning in Complex Domains 2008 ,		4
39	Planning with iFALCON: Towards A Neural-Network-Based BDI Agent Architecture 2008 ,		4
38	Ontology enhanced web image retrieval 2008 ,		6
37	Explaining inferences in Bayesian networks. <i>Applied Intelligence</i> , 2008 , 29, 263-278	4.9	16
36	Integrated cognitive architectures: a survey. <i>Artificial Intelligence Review</i> , 2007 , 28, 103-130	9.7	52
35	Discovering and Exploiting Causal Dependencies for Robust Mobile Context-Aware Recommenders. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2007 , 19, 977-992	4.2	28
34	Self-organizing neural architectures and cooperative learning in a multiagent environment. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2007 , 37, 1567-80		13
33	Mining Generalized Associations of Semantic Relations from Textual Web Content. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2007 , 19, 164-179	4.2	33
32	The Multi-Agent Data Collection in HLA-Based Simulation System 2007 ,		2
31	Intelligence Through Interaction: Towards a Unified Theory for Learning. <i>Lecture Notes in Computer Science</i> , 2007 , 1094-1103	0.9	25
30	Fuzzy cognitive goal net for interactive storytelling plot design 2006 ,		5
29	Mining RDF metadata for generalized association rules 2006 ,		4
28	Learning and inferencing in user ontology for personalized semantic web services 2006 ,		3
27	Wireless Indoor Positioning System with Enhanced Nearest Neighbors in Signal Space Algorithm 2006 ,		20
26	A Hybrid Architecture Combining Reactive Plan Execution and Reactive Learning. <i>Lecture Notes in Computer Science</i> , 2006 , 200-211	0.9	11
25	Integrating Semantic Templates with Decision Tree for Image Semantic Learning. <i>Lecture Notes in Computer Science</i> , 2006 , 185-195	0.9	2
24	Self-organizing Neural Architecture for Reinforcement Learning. <i>Lecture Notes in Computer Science</i> , 2006 , 470-475	0.9	6
23	Dynamically-optimized context in recommender systems 2005 ,		16

22	Predictive neural networks for gene expression data analysis. <i>Neural Networks</i> , 2005 , 18, 297-306	9.1	33
21	Towards personalised web intelligence. <i>Knowledge and Information Systems</i> , 2004 , 6, 595-616	2.4	46
20	Modified ART 2A growing network capable of generating a fixed number of nodes. <i>IEEE Transactions on Neural Networks</i> , 2004 , 15, 728-37		24
19	On Machine Learning Methods for Chinese Document Categorization. <i>Applied Intelligence</i> , 2003 , 18, 311-332	4.9	48
18	Organizing and personalizing intelligence gathering from the web. <i>Intelligent Systems in Accounting, Finance and Management</i> , 2002 , 11, 9-21	2.5	1
17	Adding Personality to Information Clustering. <i>Lecture Notes in Computer Science</i> , 2002 , 251-256	0.9	2
16	FOCI 2001 ,		5
15	Predictive Self-Organizing Networks for Text Categorization. <i>Lecture Notes in Computer Science</i> , 2001 , 66-77	0.9	2
14	Machine learning methods for Chinese web page categorization 2000 ,		4
13	Predictive Adaptive Resonance Theory and Knowledge Discovery in Databases. <i>Lecture Notes in Computer Science</i> , 2000 , 173-176	0.9	3
12	Cascade ARTMAP: integrating neural computation and symbolic knowledge processing. <i>IEEE Transactions on Neural Networks</i> , 1997 , 8, 237-50		49
11	Inductive neural logic network and the SCM algorithm. <i>Neurocomputing</i> , 1997 , 14, 157-176	5.4	5
10	Concept hierarchy memory model: a neural architecture for conceptual knowledge representation, learning, and commonsense reasoning. <i>International Journal of Neural Systems</i> , 1996 , 7, 305-19	6.2	14
9	An application of hierarchical knowledge integration in hand-written form processing. <i>Lecture Notes in Computer Science</i> , 1996 , 169-180	0.9	
8	Adaptive resonance associative map. <i>Neural Networks</i> , 1995 , 8, 437-446	9.1	76
7	Rule Extraction: From Neural Architecture to Symbolic Representation. <i>Connection Science</i> , 1995 , 7, 3-27	2.8	121
6	. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 1991 , 3, 200-207	4.2	12
5	Self-organizing cognitive agents and reinforcement learning in multi-agent environment		4

4	FALCON: a fusion architecture for learning, cognition, and navigation	19
3	Mining ontological knowledge from domain-specific text documents	21
2	Learning user profiles for personalized information dissemination	1
1	Integrating rules and neural computation	2