Peter Stone

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5647866/publications.pdf

Version: 2024-02-01

69 papers	2,217 citations	516710 16 h-index	501196 28 g-index
69 all docs	69 docs citations	69 times ranked	1630 citing authors

#	Article	IF	Citations
1	Interactively shaping agents via human reinforcement. , 2009, , .		207
2	Scalable training of artificial neural networks with adaptive sparse connectivity inspired by network science. Nature Communications, 2018, 9, 2383.	12.8	200
3	Behavioral Cloning from Observation. , 2018, , .		175
4	Auction-based autonomous intersection management. , 2013, , .		149
5	A Neuroevolution Approach to General Atari Game Playing. IEEE Transactions on Games, 2014, 6, 355-366.	1.4	101
6	A social reinforcement learning agent. , 2001, , .		74
7	Autonomous Intersection Management: Multi-intersection optimization. , 2011, , .		74
8	Generalized model learning for Reinforcement Learning on a humanoid robot. , 2010, , .		61
9	Variety Wins: Soccer-Playing Robots and Infant Walking. Frontiers in Neurorobotics, 2018, 12, 19.	2.8	57
10	Motion planning and control for mobile robot navigation using machine learning: a survey. Autonomous Robots, 2022, 46, 569-597.	4.8	57
11	RTMBA: A Real-Time Model-Based Reinforcement Learning Architecture for robot control. , 2012, , .		55
12	TEXPLORE: real-time sample-efficient reinforcement learning for robots. Machine Learning, 2013, 90, 385-429.	5.4	55
13	How Humans Teach Agents. International Journal of Social Robotics, 2012, 4, 409-421.	4.6	54
14	Dynamic lane reversal in traffic management. , 2011, , .		53
15	BWIBots: A platform for bridging the gap between AI and humanâ€“robot interaction research. International Journal of Robotics Research, 2017, 36, 635-659.	8.5	52
16	Bringing simulation to life: A mixed reality autonomous intersection. , 2010, , .		48
17	Reinforcement learning from human reward: Discounting in episodic tasks. , 2012, , .		44
18	Recent Advances in Imitation Learning from Observation. , 2019, , .		40

#	Article	IF	Citations
19	A Lifelong Learning Approach to Mobile Robot Navigation. IEEE Robotics and Automation Letters, 2021, 6, 1090-1096.	5.1	37
20	Special Issue â€œOn Defining Artificial Intelligenceâ€â€”Commentaries and Authorâ€™s Response. Journal of Artificial General Intelligence, 2020, 11, 1-100.	0.6	33
21	Protecting against evaluation overfitting in empirical reinforcement learning. , 2011, , .		32
22	APPLD: Adaptive Planner Parameter Learning From Demonstration. IEEE Robotics and Automation Letters, 2020, 5, 4541-4547.	5.1	29
23	Leveraging Human Guidance for Deep Reinforcement Learning Tasks. , 2019, , .		25
24	Learning Inverse Kinodynamics for Accurate High-Speed Off-Road Navigation on Unstructured Terrain. IEEE Robotics and Automation Letters, 2021, 6, 6054-6060.	5.1	24
25	Autonomous Intersection Management: Multi-intersection optimization. , 2011, , .		24
26	Benchmarking Metric Ground Navigation. , 2020, , .		23
27	Model-based function approximation in reinforcement learning. , 2007, , .		22
28	Task planning in robotics: an empirical comparison of PDDL- and ASP-based systems. Frontiers of Information Technology and Electronic Engineering, 2019, 20, 363-373.	2.6	21
29	Socially CompliAnt Navigation Dataset (SCAND): A Large-Scale Dataset of Demonstrations for Social Navigation. IEEE Robotics and Automation Letters, 2022, 7, 11807-11814.	5.1	20
30	On coordination in practical multi-robot patrol. , 2012, , .		19
31	Approximately Orchestrated Routing and Transportation Analyzer: Large-scale traffic simulation for autonomous vehicles. , 2012, , .		19
32	Passive Demonstrations of Light-Based Robot Signals for Improved Human Interpretability. , 2018, , .		19
33	Using Human-Inspired Signals to Disambiguate Navigational Intentions. Lecture Notes in Computer Science, 2020, , 320-331.	1.3	19
34	Characterizing reinforcement learning methods through parameterized learning problems. Machine Learning, 2011, 84, 205-247.	5.4	18
35	Toward Agile Maneuvers in Highly Constrained Spaces: Learning From Hallucination. IEEE Robotics and Automation Letters, 2021, 6, 1503-1510.	5.1	16
36	Setpoint scheduling for autonomous vehicle controllers. , 2012, , .		15

#	Article	IF	Citations
37	APPLE: Adaptive Planner Parameter Learning From Evaluative Feedback. IEEE Robotics and Automation Letters, 2021, 6, 7744-7749.	5.1	14
38	The RoboCup 2013 drop-in player challenges: Experiments in ad hoc teamwork. , 2014, , .		13
39	APPLI: Adaptive Planner Parameter Learning From Interventions. , 2021, , .		13
40	Decision mechanisms underlying mood-congruent emotional classification. Cognition and Emotion, 2018, 32, 249-258.	2.0	12
41	APPL: Adaptive Planner Parameter Learning. Robotics and Autonomous Systems, 2022, 154, 104132.	5.1	12
42	Enhanced Delta-tolling: Traffic Optimization via Policy Gradient Reinforcement Learning. , 2018, , .		11
43	Importance sampling in reinforcement learning with an estimated behavior policy. Machine Learning, 2021, 110, 1267-1317.	5.4	11
44	Grounded action transformation for sim-to-real reinforcement learning. Machine Learning, 2021, 110, 2469-2499.	5.4	11
45	Inferring User Intention using Gaze in Vehicles. , 2018, , .		10
46	RIDM: Reinforced Inverse Dynamics Modeling for Learning from a Single Observed Demonstration. IEEE Robotics and Automation Letters, 2020, 5, 6262-6269.	5.1	10
47	Imitation Learning from Video by Leveraging Proprioception. , 2019, , .		10
48	Ad Hoc Teamwork With Behavior Switching Agents. , 2019, , .		10
49	From Agile Ground to Aerial Navigation: Learning from Learned Hallucination. , 2021, , .		10
50	VOILA: Visual-Observation-Only Imitation Learning for Autonomous Navigation. , 2022, , .		10
51	Real time targeted exploration in large domains. , 2010, , .		9
52	Leveraging commonsense reasoning and multimodal perception for robot spoken dialog systems. , 2017, , .		9
53	Agile Robot Navigation through Hallucinated Learning and Sober Deployment. , 2021, , .		9
54	Bottom-Up Skill Discovery From Unsegmented Demonstrations for Long-Horizon Robot Manipulation. IEEE Robotics and Automation Letters, 2022, 7, 4126-4133.	5.1	8

#	Article	IF	Citations
55	Policy Evaluation in Continuous MDPs With Efficient Kernelized Gradient Temporal Difference. IEEE Transactions on Automatic Control, 2021, 66, 1856-1863.	5.7	7
56	Benchmarking robot cooperation without pre-coordination in the RoboCup Standard Platform League drop-in player competition. , 2015, , .		6
57	Three years of the RoboCup standard platform league drop-in player competition. Autonomous Agents and Multi-Agent Systems, 2017, 31, 790-820.	2.1	6
58	Recent advances in leveraging human guidance for sequential decision-making tasks. Autonomous Agents and Multi-Agent Systems, 2021, 35, 1.	2.1	5
59	Watch Where Youâ€™re Going! Gaze and Head Orientation as Predictors for Social Robot Navigation. , 2021, , .		4
60	UT Austin Villa: RoboCup 2018 3D Simulation League Champions. Lecture Notes in Computer Science, 2019, , 462-475.	1.3	4
61	Machine Learning Methods for Local Motion Planning: A Study of End-to-End vs. Parameter Learning. , 2021, , .		4
62	On learning with imperfect representations. , 2011, , .		3
63	Representative Selection in Nonmetric Datasets. Applied Artificial Intelligence, 2015, 29, 807-838.	3.2	3
64	PRISM: Pose Registration for Integrated Semantic Mapping. , 2018, , .		3
65	A Study of Human-Robot Copilot Systems for En-route Destination Changing. , 2018, , .		3
66	Mechanism Design for Correlated Valuations: Efficient Methods for Revenue Maximization. Operations Research, 0, , .	1.9	2
67	DEALIO: Data-Efficient Adversarial Learning for Imitation from Observation. , 2021, , .		2
68	Improving particle filter performance using SSE instructions. , 2009, , .		1
69	Adversarial Imitation Learning from Video Using a State Observer. , 2022, , .		1