

# Peter Stone

## List of Publications by Year in descending order

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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	Bottom-Up Skill Discovery From Unsegmented Demonstrations for Long-Horizon Robot Manipulation. IEEE Robotics and Automation Letters, 2022, 7, 4126-4133.	5.1	8
2	Motion planning and control for mobile robot navigation using machine learning: a survey. Autonomous Robots, 2022, 46, 569-597.	4.8	57
3	APPL: Adaptive Planner Parameter Learning. Robotics and Autonomous Systems, 2022, 154, 104132.	5.1	12
4	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
5	VOILA: Visual-Observation-Only Imitation Learning for Autonomous Navigation. , 2022, , .		10
6	Adversarial Imitation Learning from Video Using a State Observer. , 2022, , .		1
7	Policy Evaluation in Continuous MDPs With Efficient Kernelized Gradient Temporal Difference. IEEE Transactions on Automatic Control, 2021, 66, 1856-1863.	5.7	7
8	A Lifelong Learning Approach to Mobile Robot Navigation. IEEE Robotics and Automation Letters, 2021, 6, 1090-1096.	5.1	37
9	Toward Agile Maneuvers in Highly Constrained Spaces: Learning From Hallucination. IEEE Robotics and Automation Letters, 2021, 6, 1503-1510.	5.1	16
10	Importance sampling in reinforcement learning with an estimated behavior policy. Machine Learning, 2021, 110, 1267-1317.	5.4	11
11	Grounded action transformation for sim-to-real reinforcement learning. Machine Learning, 2021, 110, 2469-2499.	5.4	11
12	Recent advances in leveraging human guidance for sequential decision-making tasks. Autonomous Agents and Multi-Agent Systems, 2021, 35, 1.	2.1	5
13	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
14	APPLE: Adaptive Planner Parameter Learning From Evaluative Feedback. IEEE Robotics and Automation Letters, 2021, 6, 7744-7749.	5.1	14
15	Agile Robot Navigation through Hallucinated Learning and Sober Deployment. , 2021, , .		9
16	Watch Where You're Going! Gaze and Head Orientation as Predictors for Social Robot Navigation. , 2021, , .		4
17	APPLI: Adaptive Planner Parameter Learning From Interventions. , 2021, , .		13
18	Machine Learning Methods for Local Motion Planning: A Study of End-to-End vs. Parameter Learning. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
19	DEALIO: Data-Efficient Adversarial Learning for Imitation from Observation. , 2021, , .		2
20	From Agile Ground to Aerial Navigation: Learning from Learned Hallucination. , 2021, , .		10
21	APPLD: Adaptive Planner Parameter Learning From Demonstration. IEEE Robotics and Automation Letters, 2020, 5, 4541-4547.	5.1	29
22	RIDM: Reinforced Inverse Dynamics Modeling for Learning from a Single Observed Demonstration. IEEE Robotics and Automation Letters, 2020, 5, 6262-6269.	5.1	10
23	Special Issue “On Defining Artificial Intelligence” Commentaries and Author’s Response. Journal of Artificial General Intelligence, 2020, 11, 1-100.	0.6	33
24	Using Human-Inspired Signals to Disambiguate Navigational Intentions. Lecture Notes in Computer Science, 2020, , 320-331.	1.3	19
25	Benchmarking Metric Ground Navigation. , 2020, , .		23
26	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
27	Imitation Learning from Video by Leveraging Proprioception. , 2019, , .		10
28	Ad Hoc Teamwork With Behavior Switching Agents. , 2019, , .		10
29	Recent Advances in Imitation Learning from Observation. , 2019, , .		40
30	Leveraging Human Guidance for Deep Reinforcement Learning Tasks. , 2019, , .		25
31	UT Austin Villa: RoboCup 2018 3D Simulation League Champions. Lecture Notes in Computer Science, 2019, , 462-475.	1.3	4
32	Decision mechanisms underlying mood-congruent emotional classification. Cognition and Emotion, 2018, 32, 249-258.	2.0	12
33	Inferring User Intention using Gaze in Vehicles. , 2018, , .		10
34	PRISM: Pose Registration for Integrated Semantic Mapping. , 2018, , .		3
35	A Study of Human-Robot Copilot Systems for En-route Destination Changing. , 2018, , .		3
36	Passive Demonstrations of Light-Based Robot Signals for Improved Human Interpretability. , 2018, , .		19

#	ARTICLE	IF	CITATIONS
37	Enhanced Delta-tolling: Traffic Optimization via Policy Gradient Reinforcement Learning. , 2018, , .		11
38	Variety Wins: Soccer-Playing Robots and Infant Walking. Frontiers in Neurorobotics, 2018, 12, 19.	2.8	57
39	Scalable training of artificial neural networks with adaptive sparse connectivity inspired by network science. Nature Communications, 2018, 9, 2383.	12.8	200
40	Behavioral Cloning from Observation. , 2018, , .		175
41	BWIBots: A platform for bridging the gap between AI and human-robot interaction research. International Journal of Robotics Research, 2017, 36, 635-659.	8.5	52
42	Leveraging commonsense reasoning and multimodal perception for robot spoken dialog systems. , 2017, , .		9
43	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
44	Benchmarking robot cooperation without pre-coordination in the RoboCup Standard Platform League drop-in player competition. , 2015, , .		6
45	Representative Selection in Nonmetric Datasets. Applied Artificial Intelligence, 2015, 29, 807-838.	3.2	3
46	The RoboCup 2013 drop-in player challenges: Experiments in ad hoc teamwork. , 2014, , .		13
47	A Neuroevolution Approach to General Atari Game Playing. IEEE Transactions on Games, 2014, 6, 355-366.	1.4	101
48	TEXPLORE: real-time sample-efficient reinforcement learning for robots. Machine Learning, 2013, 90, 385-429.	5.4	55
49	Auction-based autonomous intersection management. , 2013, , .		149
50	Setpoint scheduling for autonomous vehicle controllers. , 2012, , .		15
51	Reinforcement learning from human reward: Discounting in episodic tasks. , 2012, , .		44
52	On coordination in practical multi-robot patrol. , 2012, , .		19
53	Approximately Orchestrated Routing and Transportation Analyzer: Large-scale traffic simulation for autonomous vehicles. , 2012, , .		19
54	RTMBA: A Real-Time Model-Based Reinforcement Learning Architecture for robot control. , 2012, , .		55

#	ARTICLE	IF	CITATIONS
55	How Humans Teach Agents. International Journal of Social Robotics, 2012, 4, 409-421.	4.6	54
56	On learning with imperfect representations. , 2011, , .		3
57	Protecting against evaluation overfitting in empirical reinforcement learning. , 2011, , .		32
58	Characterizing reinforcement learning methods through parameterized learning problems. Machine Learning, 2011, 84, 205-247.	5.4	18
59	Dynamic lane reversal in traffic management. , 2011, , .		53
60	Autonomous Intersection Management: Multi-intersection optimization. , 2011, , .		74
61	Autonomous Intersection Management: Multi-intersection optimization. , 2011, , .		24
62	Bringing simulation to life: A mixed reality autonomous intersection. , 2010, , .		48
63	Generalized model learning for Reinforcement Learning on a humanoid robot. , 2010, , .		61
64	Real time targeted exploration in large domains. , 2010, , .		9
65	Improving particle filter performance using SSE instructions. , 2009, , .		1
66	Interactively shaping agents via human reinforcement. , 2009, , .		207
67	Model-based function approximation in reinforcement learning. , 2007, , .		22
68	A social reinforcement learning agent. , 2001, , .		74
69	Mechanism Design for Correlated Valuations: Efficient Methods for Revenue Maximization. Operations Research, 0, , .	1.9	2