

Ronald C Arkin

List of Publications by Year in descending order

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59
papers

3,081
citations

394421

19
h-index

361022

35
g-index

60
all docs

60
docs citations

60
times ranked

1406
citing authors

#	ARTICLE	IF	CITATIONS
1	Motor Schema " Based Mobile Robot Navigation. International Journal of Robotics Research, 1989, 8, 92-112.	8.5	757
2	Communication in reactive multiagent robotic systems. Autonomous Robots, 1994, 1, 27-52.	4.8	392
3	Integrating behavioral, perceptual, and world knowledge in reactive navigation. Robotics and Autonomous Systems, 1990, 6, 105-122.	5.1	320
4	An ethological and emotional basis for human"robot interaction. Robotics and Autonomous Systems, 2003, 42, 191-201.	5.1	216
5	AuRA: principles and practice in review. Journal of Experimental and Theoretical Artificial Intelligence, 1997, 9, 175-189.	2.8	203
6	Cooperation without communication: Multiagent schema-based robot navigation. Journal of Field Robotics, 1992, 9, 351-364.	0.7	190
7	Adaptive teams of autonomous aerial and ground robots for situational awareness. Journal of Field Robotics, 2007, 24, 991-1014.	6.0	127
8	Acting Deceptively: Providing Robots with the Capacity for Deception. International Journal of Social Robotics, 2011, 3, 5-26.	4.6	70
9	Behavior-Based Robot Navigation for Extended Domains. Adaptive Behavior, 1992, 1, 201-225.	1.9	67
10	Behavioral overlays for non-verbal communication expression on a humanoid robot. Autonomous Robots, 2006, 22, 55-74.	4.8	65
11	Navigational path planning for a vision-based mobile robot. Robotica, 1989, 7, 49-63.	1.9	57
12	Behavioral models of the praying mantis as a basis for robotic behavior. Robotics and Autonomous Systems, 2000, 32, 39-60.	5.1	48
13	A Taxonomy of Robot Deception and Its Benefits in HRI. , 2013, , .		47
14	Evaluating the Usability of Robot Programming Toolsets. International Journal of Robotics Research, 1998, 17, 381-401.	8.5	42
15	TAME: Time-Varying Affective Response for Humanoid Robots. International Journal of Social Robotics, 2011, 3, 207-221.	4.6	41
16	Homeostatic control for a mobile robot: Dynamic replanning in hazardous environments. Journal of Field Robotics, 1992, 9, 197-214.	0.7	30
17	Nudging for good: robots and the ethical appropriateness of nurturing empathy and charitable behavior. AI and Society, 2017, 32, 499-507.	4.6	29
18	Local navigation strategies for a team of robots. Robotica, 2003, 21, 461-473.	1.9	28

#	ARTICLE	IF	CITATIONS
19	<title>Tactical mobile robot mission specification and execution</title>. , 1999, 3838, 150.		25
20	An ethical adaptor: Behavioral modification derived from moral emotions. , 2009, , .		25
21	Biologically-Inspired Deceptive Behavior for a Robot. Lecture Notes in Computer Science, 2012, , 401-411.	1.3	22
22	From Deliberative to Routine Behaviors: A Cognitively Inspired Action-Selection Mechanism for Routine Behavior Capture. Adaptive Behavior, 2007, 15, 199-216.	1.9	20
23	Neuroscience in Motion: The Application of Schema Theory to Mobile Robotics. , 1989, , 649-671.		20
24	Performance Verification for Behavior-Based Robot Missions. IEEE Transactions on Robotics, 2015, 31, 619-636.	10.3	19
25	Robot deception: Recognizing when a robot should deceive. , 2009, , .		18
26	Path Planning For A Vision-Based Autonomous Robot. , 1987, , .		17
27	Multiagent Mission Specification and Execution. , 1997, , 29-52.		15
28	<title>Robotic comfort zones</title>. , 2000, 4196, 27.		14
29	Analyzing social situations for humanâ€“robot interaction. Interaction Studies, 2008, 9, 277-300.	0.6	13
30	Automatic Verification of Autonomous Robot Missions. Lecture Notes in Computer Science, 2014, , 462-473.	1.3	12
31	Lek behavior as a model for multi-robot systems. , 2009, , .		11
32	Preserving dignity in patient caregiver relationships using moral emotions and robots. , 2014, , .		10
33	Probabilistic Verification of Multi-robot Missions in Uncertain Environments. , 2015, , .		9
34	Multi-robot User Interface Modeling. , 2006, , 237-248.		9
35	The role of mental rotations in primate-inspired robot navigation. Cognitive Processing, 2012, 13, 83-87.	1.4	8
36	An Intervening Ethical Governor for a Robot Mediator in Patient-Caregiver Relationships. Intelligent Systems, Control and Automation: Science and Engineering, 2017, , 77-91.	0.5	8

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37	Time-Varying Affective Response for Humanoid Robots. Communications in Computer and Information Science, 2009, , 1-9.	0.5	8
38	Mood as an affective component for robotic behavior with continuous adaptation via Learning Momentum. , 2010, , .		7
39	Other-oriented robot deception: A computational approach for deceptive action generation to benefit the mark. , 2014, , .		7
40	SLAM-Based Spatial Memory for Behavior-Based Robots. IFAC-PapersOnLine, 2015, 48, 195-202.	0.9	7
41	Homeostatic Control For A Mobile Robot: Dynamic Replanning In Hazardous Environments. Proceedings of SPIE, 1989, 1007, 407.	0.8	5
42	Usability evaluation of an automated mission repair mechanism for mobile robot mission specification. , 2006, , .		4
43	Biasing behavioral activation with intent for an entertainment robot. Intelligent Service Robotics, 2008, 1, 195-209.	2.6	4
44	The benefits of robot deception in search and rescue: Computational approach for deceptive action selection via case-based reasoning. , 2015, , .		4
45	Ethics of Robotic Deception [Opinion]. IEEE Technology and Society Magazine, 2018, 37, 18-19.	0.8	4
46	Push and Pull: Shepherding Multi-Agent Robot Teams in Adversarial Situations. , 2019, , .		4
47	Adapting to environmental dynamics with an artificial circadian system. Adaptive Behavior, 2020, 28, 165-179.	1.9	4
48	Primate-inspired mental rotations: Implications for robot control. , 2012, , .		3
49	3D Navigational Path Planning. Robotica, 1990, 8, 195-205.	1.9	2
50	Spatial uncertainty management for a mobile robot. International Journal of Approximate Reasoning, 1991, 5, 89-121.	3.3	2
51	<title>Perceptual support for ballistic motion in docking for a mobile robot</title>. , 1992, , .		2
52	Sloth and slow loris inspired behavioral controller for a robotic agent. , 2017, , .		2
53	3D Path Planning for Flying/Crawling Robots. , 1990, , .		1
54	Affect in Human-Robot Interaction. , 2015, , .		1

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55	Establishing A-Priori Performance Guarantees for Robot Missions that Include Localization Software. International Journal of Monitoring and Surveillance Technologies Research, 2017, 5, 49-70.	0.3	1
56	An Artificial Circadian System for a Slow and Persistent Robot. Lecture Notes in Computer Science, 2018, , 149-161.	1.3	1
57	A Framework for Situation-based Social Interaction. , 2006, , .		0
58	Civilized collaboration: Ethical architectures for enforcing legal requirements and mediating social norms in HRI. , 2015, , .		0
59	Establishing A-Priori Performance Guarantees for Robot Missions that Include Localization Software. , 2020, , 117-141.		0