

Ronald C Arkin

List of Publications by Citations

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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.

57
papers

2,230
citations

18
h-index

47
g-index

60
ext. papers

2,627
ext. citations

2.4
avg, IF

4.98
L-index

#	Paper	IF	Citations
57	Motor Schema Based Mobile Robot Navigation. <i>International Journal of Robotics Research</i> , 1989 , 8, 92-112	5.7	537
56	Communication in reactive multiagent robotic systems. <i>Autonomous Robots</i> , 1994 , 1, 27-52	3	295
55	Integrating behavioral, perceptual, and world knowledge in reactive navigation. <i>Robotics and Autonomous Systems</i> , 1990 , 6, 105-122	3.5	235
54	An ethological and emotional basis for human-robot interaction. <i>Robotics and Autonomous Systems</i> , 2003 , 42, 191-201	3.5	172
53	AuRA: principles and practice in review. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 1997 , 9, 175-189	2	144
52	Cooperation without communication: Multiagent schema-based robot navigation. <i>Journal of Field Robotics</i> , 1992 , 9, 351-364		134
51	Adaptive teams of autonomous aerial and ground robots for situational awareness. <i>Journal of Field Robotics</i> , 2007 , 24, 991-1014	6.7	104
50	Behavioral overlays for non-verbal communication expression on a humanoid robot. <i>Autonomous Robots</i> , 2006 , 22, 55-74	3	59
49	Behavior-Based Robot Navigation for Extended Domains. <i>Adaptive Behavior</i> , 1992 , 1, 201-225	1.1	46
48	Navigational path planning for a vision-based mobile robot. <i>Robotica</i> , 1989 , 7, 49-63	2.1	45
47	Acting Deceptively: Providing Robots with the Capacity for Deception. <i>International Journal of Social Robotics</i> , 2011 , 3, 5-26	4	43
46	Behavioral models of the praying mantis as a basis for robotic behavior. <i>Robotics and Autonomous Systems</i> , 2000 , 32, 39-60	3.5	38
45	Evaluating the Usability of Robot Programming Toolsets. <i>International Journal of Robotics Research</i> , 1998 , 17, 381-401	5.7	33
44	TAME: Time-Varying Affective Response for Humanoid Robots. <i>International Journal of Social Robotics</i> , 2011 , 3, 207-221	4	30
43	A Taxonomy of Robot Deception and Its Benefits in HRI 2013 ,		27
42	Local navigation strategies for a team of robots. <i>Robotica</i> , 2003 , 21, 461-473	2.1	21
41	Nudging for good: robots and the ethical appropriateness of nurturing empathy and charitable behavior. <i>AI and Society</i> , 2017 , 32, 499-507	2.1	20

40	From Deliberative to Routine Behaviors: A Cognitively Inspired Action-Selection Mechanism for Routine Behavior Capture. <i>Adaptive Behavior</i> , 2007 , 15, 199-216	1.1	19
39	Homeostatic control for a mobile robot: Dynamic replanning in hazardous environments. <i>Journal of Field Robotics</i> , 1992 , 9, 197-214		18
38	Performance Verification for Behavior-Based Robot Missions. <i>IEEE Transactions on Robotics</i> , 2015 , 31, 619-636	6.5	17
37	An ethical adaptor: Behavioral modification derived from moral emotions 2009 ,		17
36	Analyzing social situations for humanRobot interaction. <i>Interaction Studies</i> , 2008 , 9, 277-300	1.3	12
35	Biologically-Inspired Deceptive Behavior for a Robot. <i>Lecture Notes in Computer Science</i> , 2012 , 401-411	0.9	12
34	Neuroscience in Motion: The Application of Schema Theory to Mobile Robotics 1989 , 649-671		11
33	Robot deception: Recognizing when a robot should deceive 2009 ,		10
32	Tactical mobile robot mission specification and execution 1999 , 3838, 150		10
31	Lek behavior as a model for multi-robot systems 2009 ,		8
30	Path Planning For A Vision-Based Autonomous Robot 1987 ,		8
29	Multiagent Mission Specification and Execution 1997 , 29-52		8
28	Probabilistic Verification of Multi-robot Missions in Uncertain Environments 2015 ,		7
27	Preserving dignity in patient caregiver relationships using moral emotions and robots 2014 ,		7
26	Robotic comfort zones 2000 , 4196, 27		7
25	Automatic Verification of Autonomous Robot Missions. <i>Lecture Notes in Computer Science</i> , 2014 , 462-473	0.9	7
24	Multi-robot User Interface Modeling 2006 , 237-248		7
23	Mood as an affective component for robotic behavior with continuous adaptation via Learning Momentum 2010 ,		6

22	An Intervening Ethical Governor for a Robot Mediator in Patient-Caregiver Relationships. <i>Intelligent Systems, Control and Automation: Science and Engineering</i> , 2017 , 77-91	0.6	6
21	Time-Varying Affective Response for Humanoid Robots. <i>Communications in Computer and Information Science</i> , 2009 , 1-9	0.3	6
20	Other-oriented robot deception: A computational approach for deceptive action generation to benefit the mark 2014 ,		5
19	SLAM-Based Spatial Memory for Behavior-Based Robots. <i>IFAC-PapersOnLine</i> , 2015 , 48, 195-202	0.7	5
18	The role of mental rotations in primate-inspired robot navigation. <i>Cognitive Processing</i> , 2012 , 13 Suppl 1, S83-7	1.5	5
17	Biasing behavioral activation with intent for an entertainment robot. <i>Intelligent Service Robotics</i> , 2008 , 1, 195-209	2.6	4
16	Towards a Robot Computational Model to Preserve Dignity in Stigmatizing Patient-Caregiver Relationships. <i>Lecture Notes in Computer Science</i> , 2015 , 532-542	0.9	4
15	Usability evaluation of an automated mission repair mechanism for mobile robot mission specification 2006 ,		3
14	Homeostatic Control For A Mobile Robot: Dynamic Replanning In Hazardous Environments 1989 , 1007, 407		3
13	The benefits of robot deception in search and rescue: Computational approach for deceptive action selection via case-based reasoning 2015 ,		2
12	Spatial uncertainty management for a mobile robot. <i>International Journal of Approximate Reasoning</i> , 1991 , 5, 89-121	3.6	2
11	Perceptual support for ballistic motion in docking for a mobile robot 1992 ,		2
10	3D Navigational Path Planning. <i>Robotica</i> , 1990 , 8, 195-205	2.1	2
9	Push and Pull: Shepherding Multi-Agent Robot Teams in Adversarial Situations 2019 ,		2
8	Ethics of Robotic Deception [Opinion]. <i>IEEE Technology and Society Magazine</i> , 2018 , 37, 18-19	0.8	2
7	Sloth and slow loris inspired behavioral controller for a robotic agent 2017 ,		1
6	Affect in Human-Robot Interaction 2015 ,		1
5	Primate-inspired mental rotations: Implications for robot control 2012 ,		1

- 4 Establishing A-Priori Performance Guarantees for Robot Missions that Include Localization Software. *International Journal of Monitoring and Surveillance Technologies Research*, **2017**, 5, 49-70 ○
- 3 Adapting to environmental dynamics with an artificial circadian system. *Adaptive Behavior*, **2020**, 28, 165-179 1.1 ○
- 2 Establishing A-Priori Performance Guarantees for Robot Missions that Include Localization Software **2020**, 117-141
- 1 An Artificial Circadian System for a Slow and Persistent Robot. *Lecture Notes in Computer Science*, **2018**, 149-161 0.9