Ronald C Arkin

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.

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	Establishing A-Priori Performance Guarantees for Robot Missions that Include Localization Software **2020**, 117-141		
56	Adapting to environmental dynamics with an artificial circadian system. *Adaptive Behavior*, **2020**, 28, 165-179	1.1	0
55	Push and Pull: Shepherding Multi-Agent Robot Teams in Adversarial Situations **2019**,		2
54	An Artificial Circadian System for a Slow and Persistent Robot. *Lecture Notes in Computer Science*, **2018**, 149-161	0.9	
53	Ethics of Robotic Deception [Opinion]. *IEEE Technology and Society Magazine*, **2018**, 37, 18-19	0.8	2
52	Nudging for good: robots and the ethical appropriateness of nurturing empathy and charitable behavior. *AI and Society*, **2017**, 32, 499-507	2.1	20
51	Sloth and slow loris inspired behavioral controller for a robotic agent **2017**,		1
50	An Intervening Ethical Governor for a Robot Mediator in Patient-Caregiver Relationships. *Intelligent Systems, Control and Automation: Science and Engineering*, **2017**, 77-91	0.6	6
49	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
48	Performance Verification for Behavior-Based Robot Missions. *IEEE Transactions on Robotics*, **2015**, 31, 619-636	6.5	17
47	The benefits of robot deception in search and rescue: Computational approach for deceptive action selection via case-based reasoning **2015**,		2
46	SLAM-Based Spatial Memory for Behavior-Based Robots. *IFAC-PapersOnLine*, **2015**, 48, 195-202	0.7	5
45	Probabilistic Verification of Multi-robot Missions in Uncertain Environments **2015**,		7
44	Affect in Human-Robot Interaction **2015**,		1
43	Towards a Robot Computational Model to Preserve Dignity in Stigmatizing Patient-Caregiver Relationships. *Lecture Notes in Computer Science*, **2015**, 532-542	0.9	4
42	Other-oriented robot deception: A computational approach for deceptive action generation to benefit the mark **2014**,		5
41	Preserving dignity in patient caregiver relationships using moral emotions and robots **2014**,		7

40	Automatic Verification of Autonomous Robot Missions. *Lecture Notes in Computer Science*, **2014**, 462-473	0.9	7
39	A Taxonomy of Robot Deception and Its Benefits in HRI **2013**,		27
38	Primate-inspired mental rotations: Implications for robot control **2012**,		1
37	The role of mental rotations in primate-inspired robot navigation. *Cognitive Processing*, **2012**, 13 Suppl 1, S83-7	1.5	5
36	Biologically-Inspired Deceptive Behavior for a Robot. *Lecture Notes in Computer Science*, **2012**, 401-411	0.9	12
35	Acting Deceptively: Providing Robots with the Capacity for Deception. *International Journal of Social Robotics*, **2011**, 3, 5-26	4	43
34	TAME: Time-Varying Affective Response for Humanoid Robots. *International Journal of Social Robotics*, **2011**, 3, 207-221	4	30
33	Mood as an affective component for robotic behavior with continuous adaptation via Learning Momentum **2010**,		6
32	Lek behavior as a model for multi-robot systems **2009**,		8
31	Robot deception: Recognizing when a robot should deceive **2009**,		10
30	An ethical adaptor: Behavioral modification derived from moral emotions **2009**,		17
29	Time-Varying Affective Response for Humanoid Robots. *Communications in Computer and Information Science*, **2009**, 1-9	0.3	6
28	Analyzing social situations for human-robot interaction. *Interaction Studies*, **2008**, 9, 277-300	1.3	12
27	Biasing behavioral activation with intent for an entertainment robot. *Intelligent Service Robotics*, **2008**, 1, 195-209	2.6	4
26	Adaptive teams of autonomous aerial and ground robots for situational awareness. *Journal of Field Robotics*, **2007**, 24, 991-1014	6.7	104
25	From Deliberative to Routine Behaviors: A Cognitively Inspired Action-Selection Mechanism for Routine Behavior Capture. *Adaptive Behavior*, **2007**, 15, 199-216	1.1	19
24	Usability evaluation of an automated mission repair mechanism for mobile robot mission specification **2006**,		3
23	Behavioral overlays for non-verbal communication expression on a humanoid robot. *Autonomous Robots*, **2006**, 22, 55-74	3	59

22	Multi-robot User Interface Modeling **2006**, 237-248		7
21	Local navigation strategies for a team of robots. *Robotica*, **2003**, 21, 461-473	2.1	21
20	An ethological and emotional basis for human-robot interaction. *Robotics and Autonomous Systems*, **2003**, 42, 191-201	3.5	172
19	Robotic comfort zones **2000**, 4196, 27		7
18	Behavioral models of the praying mantis as a basis for robotic behavior. *Robotics and Autonomous Systems*, **2000**, 32, 39-60	3.5	38
17	Tactical mobile robot mission specification and execution **1999**, 3838, 150		10
16	Evaluating the Usability of Robot Programming Toolsets. *International Journal of Robotics Research*, **1998**, 17, 381-401	5.7	33
15	AuRA: principles and practice in review. *Journal of Experimental and Theoretical Artificial Intelligence* , **1997**, 9, 175-189	2	144
14	Multiagent Mission Specification and Execution **1997**, 29-52		8
13	Communication in reactive multiagent robotic systems. *Autonomous Robots*, **1994**, 1, 27-52	3	295
12	Behavior-Based Robot Navigation for Extended Domains. *Adaptive Behavior*, **1992**, 1, 201-225	1.1	46
11	Perceptual support for ballistic motion in docking for a mobile robot **1992**,		2
10	Homeostatic control for a mobile robot: Dynamic replanning in hazardous environments. *Journal of Field Robotics*, **1992**, 9, 197-214		18
9	Cooperation without communication: Multiagent schema-based robot navigation. *Journal of Field Robotics*, **1992**, 9, 351-364		134
8	Spatial uncertainty management for a mobile robot. *International Journal of Approximate Reasoning* , **1991**, 5, 89-121	3.6	2
7	3D Navigational Path Planning. *Robotica*, **1990**, 8, 195-205	2.1	2
6	Integrating behavioral, perceptual, and world knowledge in reactive navigation. *Robotics and Autonomous Systems*, **1990**, 6, 105-122	3.5	235
5	Motor Schema-Based Mobile Robot Navigation. *International Journal of Robotics Research*, **1989**, 8, 92-112	5.7	537

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4	Homeostatic Control For A Mobile Robot: Dynamic Replanning In Hazardous Environments **1989**, 1007, 407		3
3	Navigational path planning for a vision-based mobile robot. *Robotica*, **1989**, 7, 49-63	2.1	45
2	Neuroscience in Motion: The Application of Schema Theory to Mobile Robotics **1989**, 649-671		11
1	Path Planning For A Vision-Based Autonomous Robot **1987**,		8