

Tucker Balch

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11687802/publications.pdf>

Version: 2024-02-01

23
papers

1,298
citations

759233

12
h-index

996975

15
g-index

25
all docs

25
docs citations

25
times ranked

919
citing authors

#	ARTICLE	IF	CITATIONS
1	Communication in reactive multiagent robotic systems. <i>Autonomous Robots</i> , 1994, 1, 27-52.	4.8	392
2	AuRA: principles and practice in review. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 1997, 9, 175-189.	2.8	203
3	Learning and Inferring Motion Patterns using Parametric Segmental Switching Linear Dynamic Systems. <i>International Journal of Computer Vision</i> , 2008, 77, 103-124.	15.6	107
4	MCMC Data Association and Sparse Factorization Updating for Real Time Multitarget Tracking with Merged and Multiple Measurements. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2006, 28, 1960-1972.	13.9	106
5	Hierarchic Social Entropy: An Information Theoretic Measure of Robot Group Diversity. <i>Autonomous Robots</i> , 2000, 8, 209-238.	4.8	95
6	Automatically tracking and analyzing the behavior of live insect colonies. , 2001, , .		62
7	Personalizing CS1 with robots. <i>SIGCSE Bulletin</i> , 2009, 41, 433-437.	0.1	53
8	Designing Personal Robots for Education: Hardware, Software, and Curriculum. <i>IEEE Pervasive Computing</i> , 2008, 7, 5-9.	1.3	50
9	Memory-based learning for visual odometry. , 2008, , .		36
10	Value-based action selection for observation with robot teams using probabilistic techniques. <i>Robotics and Autonomous Systems</i> , 2005, 50, 85-97.	5.1	33
11	Executive decision support. <i>IEEE Robotics and Automation Magazine</i> , 2009, 16, 73-81.	2.0	33
12	Representing Honey Bee Behavior for Recognition Using Human Trainable Models. <i>Adaptive Behavior</i> , 2004, 12, 241-250.	1.9	22
13	Communication, Diversity and Learning: Cornerstones of Swarm Behavior. <i>Lecture Notes in Computer Science</i> , 2005, , 21-30.	1.3	22
14	Cost based planning with RRT in outdoor environments. , 2008, , .		14
15	Value-Based Communication Preservation for Mobile Robots. , 2007, , 327-336.		11
16	Using Optimal Foraging Models to Evaluate Learned Robotic Foraging Behavior. <i>Adaptive Behavior</i> , 2004, 12, 213-222.	1.9	9
17	A Modular, Hybrid System Architecture for Autonomous, Urban Driving. <i>Journal of Aerospace Computing, Information, and Communication</i> , 2007, 4, 1047-1058.	0.8	8
18	Mission-Relevant Collaborative Observation and Localization. , 2002, , 31-40.		3

#	ARTICLE	IF	CITATIONS
19	Integrating learning with motor schema-based control for a Robot Soccer Team. Lecture Notes in Computer Science, 1998, , 483-491.	1.3	2
20	A learning approach to integration of layers of a hybrid control architecture. , 2009, , .		1
21	Incremental adaptive integration of layers of a hybrid control architecture. , 2010, , .		1
22	Profit equitably. , 2021, , .		1
23	Graph-based planning using local information for unknown outdoor environments. , 2009, , .		0