

# 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

858243

12  
h-index

1113639

15  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1058  
citing authors

#	ARTICLE	IF	CITATIONS
1	Profit equitably. , 2021, , .		1
2	Incremental adaptive integration of layers of a hybrid control architecture. , 2010, , .		1
3	Graph-based planning using local information for unknown outdoor environments. , 2009, , .		0
4	Executive decision support. IEEE Robotics and Automation Magazine, 2009, 16, 73-81.	2.2	33
5	A learning approach to integration of layers of a hybrid control architecture. , 2009, , .		1
6	Personalizing CS1 with robots. SIGCSE Bulletin, 2009, 41, 433-437.	0.1	53
7	Learning and Inferring Motion Patterns using Parametric Segmental Switching Linear Dynamic Systems. International Journal of Computer Vision, 2008, 77, 103-124.	10.9	107
8	Designing Personal Robots for Education: Hardware, Software, and Curriculum. IEEE Pervasive Computing, 2008, 7, 5-9.	1.1	50
9	Memory-based learning for visual odometry. , 2008, , .		36
10	Cost based planning with RRT in outdoor environments. , 2008, , .		14
11	A Modular, Hybrid System Architecture for Autonomous, Urban Driving. Journal of Aerospace Computing, Information, and Communication, 2007, 4, 1047-1058.	0.8	8
12	Value-Based Communication Preservation for Mobile Robots. , 2007, , 327-336.		11
13	MCMC Data Association and Sparse Factorization Updating for Real Time Multitarget Tracking with Merged and Multiple Measurements. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1960-1972.	9.7	106
14	Value-based action selection for observation with robot teams using probabilistic techniques. Robotics and Autonomous Systems, 2005, 50, 85-97.	3.0	33
15	Communication, Diversity and Learning: Cornerstones of Swarm Behavior. Lecture Notes in Computer Science, 2005, , 21-30.	1.0	22
16	Representing Honey Bee Behavior for Recognition Using Human Trainable Models. Adaptive Behavior, 2004, 12, 241-250.	1.1	22
17	Using Optimal Foraging Models to Evaluate Learned Robotic Foraging Behavior. Adaptive Behavior, 2004, 12, 213-222.	1.1	9
18	Mission-Relevant Collaborative Observation and Localization. , 2002, , 31-40.		3

#	ARTICLE	IF	CITATIONS
19	Automatically tracking and analyzing the behavior of live insect colonies. , 2001, , .		62
20	Hierarchic Social Entropy: An Information Theoretic Measure of Robot Group Diversity. Autonomous Robots, 2000, 8, 209-238.	3.2	95
21	Integrating learning with motor schema-based control for a Robot Soccer Team. Lecture Notes in Computer Science, 1998, , 483-491.	1.0	2
22	AuRA: principles and practice in review. Journal of Experimental and Theoretical Artificial Intelligence, 1997, 9, 175-189.	1.8	203
23	Communication in reactive multiagent robotic systems. Autonomous Robots, 1994, 1, 27-52.	3.2	392