

# 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  | 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.  | 2.0  | 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.   | 15.6 | 107       |
| 8  | Designing Personal Robots for Education: Hardware, Software, and Curriculum. IEEE Pervasive Computing, 2008, 7, 5-9.   | 1.3  | 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. | 13.9 | 106       |
| 14 | Value-based action selection for observation with robot teams using probabilistic techniques. Robotics and Autonomous Systems, 2005, 50, 85-97.  | 5.1  | 33        |
| 15 | Communication, Diversity and Learning: Cornerstones of Swarm Behavior. Lecture Notes in Computer Science, 2005, , 21-30.   | 1.3  | 22        |
| 16 | Representing Honey Bee Behavior for Recognition Using Human Trainable Models. Adaptive Behavior, 2004, 12, 241-250.  | 1.9  | 22        |
| 17 | Using Optimal Foraging Models to Evaluate Learned Robotic Foraging Behavior. Adaptive Behavior, 2004, 12, 213-222.   | 1.9  | 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.        | 4.8 | 95        |
| 21 | Integrating learning with motor schema-based control for a Robot Soccer Team. Lecture Notes in Computer Science, 1998, , 483-491. | 1.3 | 2         |
| 22 | AuRA: principles and practice in review. Journal of Experimental and Theoretical Artificial Intelligence, 1997, 9, 175-189.       | 2.8 | 203       |
| 23 | Communication in reactive multiagent robotic systems. Autonomous Robots, 1994, 1, 27-52.  | 4.8 | 392       |