Weijia Yao

List of Publications by Year
in descending order

20 papers	236 citations	1478505 6 h-index	1372567 10 g-index
20 all docs	20 docs citations	20 times ranked	118 citing authors

#	Article	IF	Citations
1	Topological Analysis of Vector-Field Guided Path Following on Manifolds. IEEE Transactions on Automatic Control, 2023, 68, 1353-1368.	5.7	5
2	Guiding Vector Fields for Following Occluded Paths. IEEE Transactions on Automatic Control, 2022, 67, 4091-4106.	5.7	4
3	On Wilson's theorem about domains of attraction and tubular neighborhoods. Systems and Control Letters, 2022, 167, 105322.	2.3	2
4	Singularity-Free Guiding Vector Field for Robot Navigation. IEEE Transactions on Robotics, 2021, 37, 1206-1221.	10.3	32
5	Distributed coordinated path following using guiding vector fields. , 2021, , .		10
6	Refining dichotomy convergence in vector-field guided path-following control. , 2021, , .		2
7	Distributed Multi-robot Circumnavigation with Dynamic Spacing and Time Delay. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 99, 165-182.	3.4	8
8	Multi-Robot Flocking Control Based on Deep Reinforcement Learning. IEEE Access, 2020, 8, 150397-150406.	4.2	43
9	Path following control in 3D using a vector field. Automatica, 2020, 117, 108957.	5.0	22
10	Vector Field Guided Path Following Control: Singularity Elimination and Global Convergence. , 2020, , .		8
11	Distributed Static and Dynamic Circumnavigation Control with Arbitrary Spacings for a Heterogeneous Multi-robot System. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 94, 883-905.	3.4	24
12	Integrated Path Following and Collision Avoidance Using a Composite Vector Field. , 2019, , .		11
13	Distributed Circumnavigation Control with Dynamic Spacing for a Heterogeneous Multi-robot System. Lecture Notes in Computer Science, 2019, , 374-386.	1.3	3
14	Robotic Path Following in 3D Using a Guiding Vector Field. , 2018, , .		11
15	Simatch: A Simulation System for Highly Dynamic Confrontations Between Multi-Robot Systems. , 2018, , .		2
16	Cooperative Encirclement Control for a Group of Targets by Decentralized Robots with Collision Avoidance. , 2018, , .		5
17	Object detection based on GPU parallel computing for RoboCup Middle Size League. , 2017, , .		3
18	Distributed encirclement control with arbitrary spacing for multiple anonymous mobile robots. , 2017, , .		10

#	Article	IF	Citations
19	Building Software System and Simulation Environment for RoboCup MSL Soccer Robots Based on ROS and Gazebo. Studies in Computational Intelligence, 2017, , 597-631.	0.9	7
20	A simulation system based on ROS and Gazebo for RoboCup Middle Size League. , 2015, , .		24