Wang Danwei

List of Publications by Year
in descending order

72 papers	2,564 citations	218381 26 h-index	205818 48 g-index
74 all docs	74 docs citations	74 times ranked	1756 citing authors

#	Article	IF	Citations
1	Iterative learning control with initial rectifying action. Automatica, 2002, 38, 1177-1182.	3.0	211
2	Integral-Type Sliding Mode Fault-Tolerant Control for Attitude Stabilization of Spacecraft. IEEE Transactions on Control Systems Technology, 2015, 23, 1131-1138.	3.2	188
3	Active Fault-Tolerant Control System Design for Spacecraft Attitude Maneuvers with Actuator Saturation and Faults. IEEE Transactions on Industrial Electronics, 2019, 66, 3763-3772.	5.2	185
4	Design of a force-controlled end-effector with low-inertia effect for robotic polishing using macro-mini robot approach. Robotics and Computer-Integrated Manufacturing, 2018, 49, 54-65.	6.1	126
5	Decentralized Robust Adaptive Control for Attitude Synchronization Under Directed Communication Topology. Journal of Guidance, Control, and Dynamics, 2011, 34, 1276-1282.	1.6	125
6	Data-driven optimal terminal iterative learning control. Journal of Process Control, 2012, 22, 2026-2037.	1.7	113
7	Decentralized sliding€mode control for attitude synchronization in spacecraft formation. International Journal of Robust and Nonlinear Control, 2013, 23, 1183-1197.	2.1	112
8	Robust Control Allocation for Spacecraft Attitude Tracking Under Actuator Faults. IEEE Transactions on Control Systems Technology, 2017, 25, 1068-1075.	3.2	99
9	Inertia-free fault-tolerant spacecraft attitude tracking using control allocation. Automatica, 2015, 62, 114-121.	3.0	82
10	Ground Target Tracking Using UAV with Input Constraints. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 69, 417-429.	2.0	75
11	Fault Detection Isolation and Estimation in a Vehicle Steering System. IEEE Transactions on Industrial Electronics, 2012, 59, 4810-4820.	5.2	72
12	Model-Based Prognosis for Hybrid Systems With Mode-Dependent Degradation Behaviors. IEEE Transactions on Industrial Electronics, 2014, 61, 546-554.	5.2	59
13	Closed-loop iterative learning control for non-linear systems with initial shifts. International Journal of Adaptive Control and Signal Processing, 2002, 16, 515-538.	2.3	54
14	Cooperative Control of Multiple UAVs for Source Seeking. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 70, 293-301.	2.0	52
15	Electrochemical mechanical polishing technology: recent developments and future research and industrial needs. International Journal of Advanced Manufacturing Technology, 2016, 86, 1909-1924.	1.5	48
16	Model-Based Diagnosis and RUL Estimation of Induction Machines Under Interturn Fault. IEEE Transactions on Industry Applications, 2017, 53, 2690-2701.	3.3	47
17	Cooperative moving path following for multiple fixed-wing unmanned aerial vehicles with speed constraints. Automatica, 2019, 100, 82-89.	3.0	47
18	Rigid-Body Attitude Tracking Control Under Actuator Faults and Angular Velocity Constraints. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1338-1349.	3.7	45

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19	Analysis of Nonlinear Discrete-Time Systems with Higher-Order Iterative Learning Control. Journal of Dynamical and Control Systems, 2001, 11, 81-96.	0.4	43
20	Cooperative Control of Multiple UAVs for Moving Source Seeking. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 74, 333-346.	2.0	42
21	Non-linear output feedback tracking control for AUVs in shallow wave disturbance condition. International Journal of Control, 2008, 81, 1806-1823.	1.2	38
22	Decentralized sliding-mode control for spacecraft attitude synchronization under actuator failures. Acta Astronautica, 2014, 105, 333-343.	1.7	36
23	Collaborative Semantic Understanding and Mapping Framework for Autonomous Systems. IEEE/ASME Transactions on Mechatronics, 2021, 26, 978-989.	3.7	34
24	Hierarchical Probabilistic Fusion Framework for Matching and Merging of 3-D Occupancy Maps. IEEE Sensors Journal, 2018, 18, 8933-8949.	2.4	33
25	Day and Night Collaborative Dynamic Mapping in Unstructured Environment Based on Multimodal Sensors. , 2020, , .		32
26	A Two-step Method for Extrinsic Calibration between a Sparse 3D LiDAR and a Thermal Camera. , 2018, , .		30
27	Motion Capability Analysis for Multiple Fixed-Wing UAV Formations With Speed and Heading Rate Constraints. IEEE Transactions on Control of Network Systems, 2020, 7, 977-989.	2.4	30
28	Polishing of uneven surfaces using industrial robots based on neural network and genetic algorithm. International Journal of Advanced Manufacturing Technology, 2017, 93, 1463-1471.	1.5	29
29	Formation Reconstruction and Trajectory Replanning for Multi-UAV Patrol. IEEE/ASME Transactions on Mechatronics, 2021, 26, 719-729.	3.7	28
30	Adversarial Ground Target Tracking Using UAVs with Input Constraints. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 65, 521-532.	2.0	27
31	A Multilevel Fusion System for Multirobot 3-D Mapping Using Heterogeneous Sensors. IEEE Systems Journal, 2020, 14, 1341-1352.	2.9	26
32	Vehicle motion control with subsystem prioritization. Mechatronics, 2015, 30, 297-315.	2.0	24
33	Autonomous Target Docking of Nonholonomic Mobile Robots Using Relative Pose Measurements. IEEE Transactions on Industrial Electronics, 2021, 68, 7233-7243.	5.2	23
34	A Fast Anomaly Diagnosis Approach Based on Modified CNN and Multisensor Data Fusion. IEEE Transactions on Industrial Electronics, 2022, 69, 13636-13646.	5.2	22
35	Secure Pose Estimation for Autonomous Vehicles under Cyber Attacks. , 2019, , .		20
36	Output feedback control design for station keeping of AUVs under shallow water wave disturbances. International Journal of Robust and Nonlinear Control, 2009, 19, 1447-1470.	2.1	19

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37	Maneuverability and path following control of wheeled mobile robot in the presence of wheel skidding and slipping. Journal of Field Robotics, 2010, 27, 127-144.	3.2	19
38	A Hierarchical Framework for Collaborative Probabilistic Semantic Mapping. , 2020, , .		19
39	Detection and Isolation of Sensor Attacks for Autonomous Vehicles: Framework, Algorithms, and Validation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8247-8259.	4.7	19
40	Simple LMI based learning control design. Asian Journal of Control, 2009, 11, 74-77.	1.9	18
41	A Novel Navigation Method for Autonomous Mobile Vehicles. Journal of Intelligent and Robotic Systems: Theory and Applications, 2001, 32, 361-388.	2.0	16
42	Improved diagnosis of hybrid systems using instantaneous sensitivity matrices. Mechanism and Machine Theory, 2015, 91, 240-257.	2.7	16
43	Pseudo-downsampled iterative learning control. International Journal of Robust and Nonlinear Control, 2008, 18, 1072-1088.	2.1	14
44	Prognosis of Electric Scooter With Intermittent Faults: Dual Degradation Processes Approach. IEEE Transactions on Vehicular Technology, 2022, 71, 1411-1425.	3.9	14
45	Sampled-data iterative learning control with well-defined relative degree. International Journal of Robust and Nonlinear Control, 2004, 14, 719-739.	2.1	13
46	Magnetic-Assisted Initialization for Infrastructure-free Mobile Robot Localization. , 2019, , .		12
47	Case studies of filtering techniques in multirate iterative learning control. Control Engineering Practice, 2014, 26, 116-124.	3.2	11
48	Neural network based terminal iterative learning control for uncertain nonlinear non–affine systems. International Journal of Adaptive Control and Signal Processing, 2015, 29, 1274-1286.	2.3	11
49	Infrastructure-Free Hierarchical Mobile Robot Global Localization in Repetitive Environments. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	2.4	10
50	Decentralized event-triggered finite-time attitude consensus control of multiple spacecraft under directed graph. Journal of the Franklin Institute, 2021, 358, 9794-9817.	1.9	9
51	Collaborative Semantic Perception and Relative Localization Based on Map Matching. , 2020, , .		8
52	A New Navigation Function Based Decentralized Control of Multi-Vehicle Systems in Unknown Environments. Journal of Intelligent and Robotic Systems: Theory and Applications, 2017, 87, 363-377.	2.0	7
53	Formation tracking of multi-vehicle systems in unknown environments using a multi-region control scheme. International Journal of Control, 2017, 90, 2760-2771.	1.2	7
54	COSEM: Collaborative Semantic Map Matching Framework for Autonomous Robots. IEEE Transactions on Industrial Electronics, 2022, 69, 3843-3853.	5.2	7

#	ARTICLE	IF	CITATIONS
55	Stability and robustness analysis of cyclic pseudo-downsampled iterative learning control. International Journal of Control, 2010, 83, 651-659.	1.2	6
56	On learning transient, auto-tunings of learnable bandwidth and lead step in iterative learning control. International Journal of Systems Science, 2010, 41, 353-363.	3.7	6
57	Active balance of humanoids with foot positioning compensation and non-parametric adaptation. Robotics and Autonomous Systems, 2016, 75, 297-309.	3.0	6
58	Place Recognition Using Line-Junction-Lines in Urban Environments. , 2019, , .		6
59	Infrastructure-Free Global Localization in Repetitive Environments: An Overview. , 2020, , .		6
60	An integrated approach for sensor placement in linear dynamic systems. Journal of the Franklin Institute, 2015, 352, 1056-1079.	1.9	5
61	Distributed Adaptive Attitude Takeover Control of Failed Spacecraft With Parameters Identification. IEEE Transactions on Control Systems Technology, 2023, 31, 897-904.	3.2	5
62	Iterative tuning strategy for setting phase splits with anticipation of traffic demand in urban traffic network. IET Control Theory and Applications, 2016, 10, 1469-1479.	1.2	4
63	CODNet: A Center and Orientation Detection Network for Power Line Following Navigation. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	4
64	Adaptive robust fault-tolerant attitude control of spacecraft with finite-time convergence. , 2013, , .		2
65	Tightly-Coupled Perception and Navigation of Heterogeneous Land-Air Robots in Complex Scenarios. , 2021, , .		2
66	Aerial-Ground Robots Collaborative 3D Mapping in GNSS-Denied Environments. , 2022, , .		2
67	Implementation of ILC batch update using a robotic experimental setup. Microprocessors and Microsystems, 2006, 30, 259-267.	1.8	1
68	Neural network based terminal iterative learning control for tracking run-varying reference point. , 2013, , .		1
69	Back-stepping control design for transport aircraft in airdropping heavy cargo. , 2015, , .		1
70	Angular rate constrained attitude reorientation of rigid body. , 2017, , .		1
71	Technical Background. Springer Tracts in Autonomous Systems, 2021, , 9-27.	0.2	0
72	Collaborative Probabilistic Semantic Mapping Using CNN. Springer Tracts in Autonomous Systems, 2021, , 117-138.	0.2	0