Weidong Zhang

List of Publications by Citations

248 papers	3,920 citations	34 h-index	51 g-index
306 ext. papers	5,449 ext. citations	3.7 avg, IF	6.54 L-index

#	Paper	IF	Citations
248	Adaptive non-singular integral terminal sliding mode tracking control for autonomous underwater vehicles. *IET Control Theory and Applications*, **2017**, 11, 1293-1306	2.5	141
247	sEMG-based joint force control for an upper-limb power-assist exoskeleton robot. *IEEE Journal of Biomedical and Health Informatics*, **2014**, 18, 1043-50	7.2	127
246	Analytical design of two-degree-of-freedom control scheme for open-loop unstable processes with time delay. *Journal of Process Control*, **2005**, 15, 559-572	3.9	123
245	Double-Loop Integral Terminal Sliding Mode Tracking Control for UUVs With Adaptive Dynamic Compensation of Uncertainties and Disturbances. *IEEE Journal of Oceanic Engineering*, **2019**, 44, 29-53	3.3	109
244	Trajectory Tracking Control of AUVs via Adaptive Fast Nonsingular Integral Terminal Sliding Mode Control. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 1248-1258	11.9	102
243	Adaptive Second-Order Fast Nonsingular Terminal Sliding Mode Tracking Control for Fully Actuated Autonomous Underwater Vehicles. *IEEE Journal of Oceanic Engineering*, **2019**, 44, 363-385	3.3	100
242	Finite-time observer based accurate tracking control of a marine vehicle with complex unknowns. *Ocean Engineering*, **2017**, 145, 406-415	3.9	94
241	Concise deep reinforcement learning obstacle avoidance for underactuated unmanned marine vessels. *Neurocomputing*, **2018**, 272, 63-73	5.4	92
240	LMI criteria for robust chaos synchronization of a class of chaotic systems. *Nonlinear Analysis: Theory, Methods & Applications*, **2007**, 67, 3384-3393	1.3	73
239	Leader-follower formation control of underactuated surface vehicles based on sliding mode control and parameter estimation. *ISA Transactions*, **2018**, 72, 15-24	5.5	65
238	. *IEEE Transactions on Fuzzy Systems*, **2015**, 23, 1044-1056	8.3	63
237	Analytical decoupling control strategy using a unity feedback control structure for MIMO processes with time delays. *Journal of Process Control*, **2007**, 17, 173-186	3.9	63
236	Two Degree-of-Freedom Smith Predictor for Processes with Time Delay. *Automatica*, **1998**, 34, 1279-1282	3.7	62
235	Modified Smith Predictor for Controlling Integrator/Time Delay Processes. *Industrial & Engineering Chemistry Research*, **1996**, 35, 2769-2772	3.9	58
234	Distributed adaptive containment control of heterogeneous linear multi-agent systems: an output regulation approach. *IET Control Theory and Applications*, **2016**, 10, 95-102	2.5	56
233	Robust adaptive formation control of underactuated autonomous surface vessels based on MLP and DOB. *Nonlinear Dynamics*, **2018**, 94, 503-519	5	54
232	Quantitative Performance Design of a Modified Smith Predictor for Unstable Processes with Time Delay. *Industrial & Engineering Chemistry Research*, **2004**, 43, 56-62	3.9	53

231	An adaptive sliding-mode observer with a tangent function-based PLL structure for position sensorless PMSM drives. *International Journal of Electrical Power and Energy Systems*, **2017**, 88, 63-74	5.1	49
230	Vision-Based Model Predictive Control for Steering of a Nonholonomic Mobile Robot. *IEEE Transactions on Control Systems Technology*, **2015**, 1-1	4.8	47
229	Adaptive predictive functional control of a class of nonlinear systems. *ISA Transactions*, **2006**, 45, 175-83	5.5	47
228	An Interval Type-3 Fuzzy System and a New Online Fractional-Order Learning Algorithm: Theory and Practice. *IEEE Transactions on Fuzzy Systems*, **2020**, 28, 1940-1950	8.3	47
227	Robust neural path-following control for underactuated ships with the DVS obstacles avoidance guidance. *Ocean Engineering*, **2017**, 143, 198-208	3.9	46
226	Adaptive cooperative formation control of autonomous surface vessels with uncertain dynamics and external disturbances. *Ocean Engineering*, **2018**, 167, 36-44	3.9	45
225	Low-Order Stabilization of LTI Systems With Time Delay. *IEEE Transactions on Automatic Control*, **2009**, 54, 774-787	5.9	43
224	Observer-based adaptive consensus tracking for linear multi-agent systems with input saturation. *IET Control Theory and Applications*, **2015**, 9, 2124-2131	2.5	42
223	Opinion dynamics of modified Hegselmann–Krause model in a group-based population with heterogeneous bounded confidence. *Physica A: Statistical Mechanics and Its Applications*, **2015**, 419, 558-565	2.2	42
222	Quantitative performance design for integrating processes with time delay. *Automatica*, **1999**, 35, 719-723	3.7	42
221	Design of three exponentially convergent robust controllers for the trajectory tracking of autonomous underwater vehicles. *Ocean Engineering*, **2017**, 134, 157-172	3.9	39
220	Observer-based consensus tracking of multi-agent systems with one-sided Lipschitz nonlinearity. *Journal of the Franklin Institute*, **2016**, 353, 1594-1614	4	38
219	Adaptive output-feedback control with prescribed performance for trajectory tracking of underactuated surface vessels. *ISA Transactions*, **2019**, 95, 18-26	5.5	37
218	Novel DVS guidance and path-following control for underactuated ships in presence of multiple static and moving obstacles. *Ocean Engineering*, **2018**, 170, 100-110	3.9	37
217	Consensus tracking for multi-agent systems with directed graph via distributed adaptive protocol. *Neurocomputing*, **2015**, 166, 8-13	5.4	35
216	Improved sparse least-squares support vector machine classifiers. *Neurocomputing*, **2006**, 69, 1655-1658	5.4	35
215	Active disturbance rejection controller design for dynamically positioned vessels based on adaptive hybrid biogeography-based optimization and differential evolution. *ISA Transactions*, **2018**, 78, 56-65	5.5	34
214	Event-triggered extended state observers design for dynamic positioning vessels subject to unknown sea loads. *Ocean Engineering*, **2020**, 209, 107242	3.9	33

213	Observer-Based Consensus Control Against Actuator Faults for Linear Parameter-Varying Multiagent Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2017**, 47, 1336-1347	7.3	32
212	Security-based resilient event-triggered control of networked control systems under denial of service attacks. *Journal of the Franklin Institute*, **2019**, 356, 10277-10295	4	32
211	Guaranteed cost consensus protocol design for linear multi-agent systems with sampled-data information: An input delay approach. *ISA Transactions*, **2017**, 67, 87-97	5.5	31
210	Two-time scale path following of underactuated marine surface vessels: Design and stability analysis using singular perturbation methods. *Ocean Engineering*, **2016**, 124, 287-297	3.9	31
209	Practical proportional integral sliding mode control for underactuated surface ships in the fields of marine practice. *Ocean Engineering*, **2017**, 142, 217-223	3.9	30
208	Analytical Design of Decoupling Internal Model Control (IMC) Scheme for Two-Input Two-Output (TITO) Processes with Time Delays. *Industrial & Engineering Chemistry Research*, **2006**, 45, 3149-3160	3.9	30
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206	Research on the sliding mode control for underactuated surface vessels via parameter estimation. *Nonlinear Dynamics*, **2018**, 91, 1163-1175	5	30
205	Stabilization of parameters perturbation chaotic system via adaptive backstepping technique. *Applied Mathematics and Computation*, **2008**, 200, 101-109	2.7	29
204	Decoupling two-degree-of-freedom control strategy for cascade control systems. *Journal of Process Control*, **2005**, 15, 159-167	3.9	29
203	Finite-time Adaptive Integral Backstepping Fast Terminal Sliding Mode Control Application on Quadrotor UAV. *International Journal of Control, Automation and Systems*, **2020**, 18, 415-430	2.9	29
202	Electrical line-shafting control for motor speed synchronisation using sliding mode controller and disturbance observer. *IET Control Theory and Applications*, **2017**, 11, 205-212	2.5	28
201	Robust neural event-triggered control for dynamic positioning ships with actuator faults. *Ocean Engineering*, **2020**, 207, 107292	3.9	27
200	Robust adaptive trajectory tracking control of underactuated surface vessel in fields of marine practice. *Journal of Marine Science and Technology*, **2018**, 23, 950-957	1.7	27
199	A fault detection observer design for LPV systems in finite frequency domain. *International Journal of Control*, **2015**, 88, 571-584	1.5	27
198	Improvement on an inverted decoupling technique for a class of stable linear multivariable processes. *ISA Transactions*, **2007**, 46, 199-210	5.5	27
197	Finite-time extended state observer based nonsingular fast terminal sliding mode control of autonomous underwater vehicles. *Ocean Engineering*, **2020**, 218, 108179	3.9	27
196	Event-triggered fault-tolerant control for networked systems with dynamic quantiser. *IET Control Theory and Applications*, **2016**, 10, 1088-1096	2.5	27

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194	On dynamic regressor extension and mixing parameter estimators: Two Luenberger observers interpretations. *Automatica*, **2018**, 95, 548-551	5.7	26
193	An energy optimal thrust allocation method for the marine dynamic positioning system based on adaptive hybrid artificial bee colony algorithm. *Ocean Engineering*, **2016**, 118, 216-226	3.9	25
192	IMC-like analytical H□design with S/SP mixed sensitivity consideration: Utility in PID tuning guidance. *Journal of Process Control*, **2011**, 21, 976-985	3.9	24
191	Optimal dead-time compensator design for stable and integrating processes with time delay. *Journal of Process Control*, **2008**, 18, 449-457	3.9	23
190	Composite Neural Learning Fault-Tolerant Control for Underactuated Vehicles With Event-Triggered Input. *IEEE Transactions on Cybernetics*, **2021**, 51, 2327-2338	10.2	23
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188	Analytical Multiloop PI/PID Controller Design for Two-by-Two Processes with Time Delays. *Industrial & Engineering Chemistry Research*, **2005**, 44, 1832-1841	3.9	21
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184	Algebraic Solution to H2 Control Problems. II. The Multivariable Decoupling Case. *Industrial & Engineering Chemistry Research*, **2006**, 45, 7163-7176	3.9	18
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182	Statistical process monitoring via generalized non-negative matrix projection. *Chemometrics and Intelligent Laboratory Systems*, **2013**, 121, 15-25	3.8	17
181	Controlled synchronization of discrete-time chaotic systems under communication constraints. *Nonlinear Dynamics*, **2012**, 69, 223-230	5	17
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178	Consensus control of multi-agent systems with input and communication delay: A frequency domain perspective. *ISA Transactions*, **2020**, 101, 69-77	5.5	16

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168	RBF Neural Network Sliding Mode Consensus of Multiagent Systems with Unknown Dynamical Model of Leader-follower Agents. *International Journal of Control, Automation and Systems*, **2018**, 16, 749-758	2.9	13
167	Double-loop chattering-free adaptive integral sliding mode control for underwater vehicles **2016**,		13
166	Adaptive chaos synchronization based on LMI technique. *Physica Scripta*, **2007**, 75, 285-288	2.6	13
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164	TWO-DEGREE-OF-FREEDOM CONTROL SCHEME FOR PROCESSES WITH LARGE TIME DELAY. *Asian Journal of Control*, **2008**, 8, 50-55	1.7	12
163	Sliding Mode Control of Uncertain Neutral Stochastic Systems with Multiple Delays. *Mathematical Problems in Engineering*, **2008**, 2008, 1-9	1.1	12
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139	Adaptive tracking control of unmanned underwater vehicles with compensation for external perturbations and uncertainties using Port-Hamiltonian theory. *Ocean Engineering*, **2020**, 209, 107402	3.9	8
138	Consensus controllers for general integrator multi-agent systems: analysis, design and application to autonomous surface vessels. *IET Control Theory and Applications*, **2018**, 12, 669-678	2.5	8
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134	Finite-time dissipative filtering for uncertain discrete-time systems with state and disturbance-dependent noise over fading channels. *ISA Transactions*, **2019**, 86, 134-143	5.5	8
133	Optimal disturbance rejection controllers design for synchronised output regulation of time-delayed multi-agent systems. *IET Control Theory and Applications*, **2017**, 11, 1053-1062	2.5	7
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130	Robust adaptive tracking control of MIMO nonlinear systems in the presence of actuator hysteresis. *International Journal of Systems Science*, **2016**, 47, 2359-2369	2.3	7
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115	Disturbance observer-based composite neural learning path following control of underactuated ships subject to input saturation. *Ocean Engineering*, **2020**, 216, 108033	3.9	6
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109	COLREGs-constrained adaptive fuzzy event-triggered control for underactuated surface vessels with the actuator failures. *IEEE Transactions on Fuzzy Systems*, **2020**, 1-1	8.3	4
108	Tracking control problem in general linear and Lipschitz nonlinear multi-agent systems with jointly connected topology. *Journal of the Franklin Institute*, **2020**, 357, 6121-6136	4	4
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100	Analytical design of two degree-of-freedom decoupling control scheme for two-by-two systems with integrator(s). *IET Control Theory and Applications*, **2007**, 1, 1380-1389	2.5	4
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88	Block Inverted Decoupling Control with Internal Model Structure for Non-square Multivariable Time Delay Systems * *This paper is partly supported by the National Science Foundation of China (61473183, U1509211). *IFAC-PapersOnLine*, **2017**, 50, 3617-3622	0.7	3

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86	Applications of adaptive CKF algorithm in short-term load forecasting of smart grid **2014**,		3
85	Estimation for Stochastic Time Delays in Networked Control Systems by Partly Unknown Transition Probabilities of Markovian Chains. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2013**, 135, 145081-1450816	1.6	3
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82	A ratio control scheme decoupling disturbance response from set-point response. *ISA Transactions*, **2007**, 46, 277-87	5.5	3
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